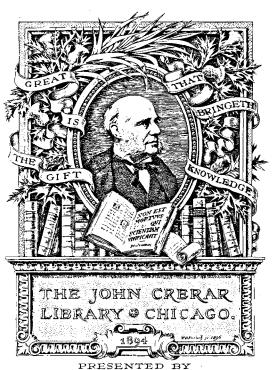
ELECTRIC LIGHT SUPPLY CATALOG

AMERICAN ELECTRIC COMPANY ST. PAUL, MINN.







Electric Light Supplies.

American Electric Company

56 East Sixth Street, St. Paul, Minn.

> Copyright, 1899 by American Electric Company.

INTRODUCTORY.

We are pleased to present to the Electrical Trade of the Northwest our Catalogue of Electric Supplies. It contains a very complete list of all material used in electric light work, and we trust it will prove of service to our customers in making their selections.

We wish it understood that we are prepared to furnish promptly anything in the electrical line, though it may not be listed herein.

All supplies that we furnish are of the highest quality, and every article is fully guaranteed.

American Electric Company.

1899

TERMS.

OUR terms to people of established credit are 30 days net.

Unless your standing is known to us, or you have a rating with the Agencies, please have statement of your financial condition and satisfactory references accompany your order: if this is not done, there will necessarily be delay while we look up your credit.

All accounts will be due on the fifteenth of the month following shipment, and if not paid by that time will be subject to sight draft without notice.

We do not allow cash discounts

Goods will be sent C. O. D. if a remittance sufficient to pay express charges both ways accompanies the order.

If 25 per cent, of the bill is remitted with the order, the goods will be forwarded by freight, and draft for the balance, with bill of lading attached thereto, will be sent to any designated bank, so that the goods can be delivered at designation on payment of draft.

Payment may be made by Draft, Post Office or Express Money Order, or Registered Letter: we will not be responsible for remittances lost in transit.

Prices.

All former prices are hereby annulled.

All prices are subject to change without notice.

Boxing, cartage and postage will be charged at cost.

We will cheerfully and promptly answer all inquiries for prices and discounts. In writing us for quotations kindly refer to the page of our catalogue on which the articles are described, and state the quantity desired.

Shipments.

We request our customers to give us shipping directions with their orders, but in their absence we will use our best judgment in making selections of routes. As we employ experienced packers, we cannot be responsible for breakage after having obtained "in good order" receipts from a transportation company. All claims for breakage and damage should be made to the carriers.

Goods ordered to be shipped by mail will only be sent at purchaser's risk of loss or damage.

er Telegraph Code. 20



USTOMERS are requested to make use of our code words as far as possible in ordering goods, requesting quotations or requesting information relative to shipment of orders, by telegraph, as it saves considerable expense, making it possible to send a long message for the price of a short one, and experience has also shown that it reduces the liability to errors. By a little ingenuity in arranging such

a message, from thirty to fifty words can be transmitted for the price of a ten word message. Telegraph inquiries received by us in code will be replied to in the same manner, not otherwise. We give below a number of code words, representing business phrases and sentences which are to be used in connection with code words given on the following pages:

CODE IN GENERAL:

CODE IN GENERAL-(Continued):

Lapwing	Answer by mail.	Latent	Will greatly accommodate us if you
Larboard	Referring to our letter of.		wifl.
Larceny	Referring to your letter of.	Latently	According to contract.
Larch	We write you fully to-day.	Lateral	Not according to contract.
Largeness	We have no letter from you.	Lather	To which add the cost of.
Largess	Will write you fully in a day or so.	Lathered	In addition to.
Lariat	Write giving full particulars.	Lathering	How did you address?
Lark	Answer by telegraph—day message.	Latin	Was addressed to.
Larva	Answer by telegraph—night message.	Latinize	Please note an advance of.
Larynx	Referring to our telegram of.	Latitude	Would you advise?
Lascar	Referring to your telegram of.	Latterally	Would advise you to.
Lash	Telegraph immediately.	Latterly	Would not advise you to.
Lashed	Telegraph reply soon as possible.	Lattice	Unless otherwise advised will assume
Lashing	We have no telegram from you		that.
Lass	Why do you not telegraph?	Laud	Will you agree to?
Lasting	Shall we?	Laudable	Will agree to.
Latch	Will you?	Laudahly	Must have answer by.
Lateen	Will you accept?	Laudation	Will be in.
Lateness	Wire at once if accepted or not.	Laudative	Will be here.

E IN GENER	AL—(Continued):	CODE IN GENERAL	•
Laugh	Utmost care must be used.	Leak	Shall we deliver goods on verbal orde
Laughable	Cash on delivery.	- '	of your Mr?
Laughed	Cash in 30 days	Leakage	Advisable for you to place order
Laugher	Will not allow any commission.		once, prices tending to an advance
Laughing	Commission will be allowed.		
Launch	Your financial standing being un-	ORDERS:	
	known, we will send goods C. O. D.	taskina	Add to our order of.
	unless otherwise instructed.	Leaking	Cancel our order of.
Launched	Kindly send us references as to your	Leaky	Change our order of.
	financial standing, or shall we ship	Lean Leaned	Hurry forward goods on our order of
	via freight with draft attached to		
	bill of lading?	Leaning	Have you shipped goods on our orde
Laundress	Will you agree to the conditions?	•	If not, when will you?
Laundry	Contract awarded.	Leanness	Enter order if you can ship in.
Laura	Contract will be awarded.	Leaped	Hold for instructions our order of.
·Laurate	Will you extend credit?	Leaping	If you cannot ship in time named a vise by telegraph.
Laurel	Have you decided?	Learn	Instructions by mail.
Lava	Have not decided.	Learned	Prepay freight.
Lavation	Have decided.	Learning	Shipping instructions will be sent yo
Lavatory	Will guarantee delivery by the.	Lease	Ship immediately.
Lavender	Cannot guarantee delivery before the.	Leased	Ship as soon as possible.
Lawfully	The diameter is.	Leasehold	Ship by express.
Lawfulness	Will do the best we possibly can.		Ship by fast freight.
Lawgiver	Do the best you possibly can.	Leash	Ship quickest route.
Lawgiving	Shall we do so?	Leaven	Ship cheapest route.
Lawless	Do so.	Leavened	Send tracer immediately for shipme
Lawn	Can do nothing until.	Leavened	of.
Lawrence	What have you done about?	Leavening	Wait receipt of letter before proceeding
Lax	Will deposit sight draft on you to-day,	2007011119	with order.
	unless advised to the contrary, for	Lecture	Change order for.
	dollars.	Lectured	Send C. O. D. by express.
Laxative.	Please accept our draft for	Lecturing	What quantity can you ship per day
	dollars.	Ledge	Do not delay.
Laxity	Send duplicate copy of invoice dated.	Leeward Leeward	Duplicate our order.
Laxness	Have examined very carefully and find.	Leeway	Can you furnish?
Laymen	Expenses to be paid by.	Legacy	Hold subject to our order.
Lazily	Do not fail to.	Legal	Hold until further orders.
Laziness	Have figured as close as possible.	Legalize	Send us immediately.
Lazy	Freight must be prepaid.	Legally	This is very important.
Leach	Freight rate per hundred pounds to destination.	Legate	Send tracer on shipment—goods r
Leaden	What is freight rate per hundred pounds?	0.177.071.0	nere.
Leader	Guarantee the account.	QUESTIONS:	
Leading	Hold subject to your order.	Legatee	At what price could you furnish?
Leafage	Does not include.	Legation	Quote us by telegraph.
Leafing	Must be included.	Legend [*]	Quote us by next mail.
Leafless	Will keep you fully informed.	Legendary	Quote lowest price by telegrap
Leafy	Insist upon.		F. O. B. New York.
League	Await instructions.	Legging	Quote lowest prices by mai, F. O.
Leagued	Letter in transit with full particulars	•	New York.

Answers-(Continued): QUESTIONS-(Continued): Lengthened Can begin shipping at once, and com-Legible Telegraph lowest price, F. O. B. New York, and how soon can ship. plete in..... Lengthening Can ship within one week from receipt Can you ship immediately? Legibly of order if advised at once. Legion Can you ship in? Lengthily Can ship within two weeks from re-Have you in stock? Legislate ceipt of order if advised at once. Legislated Have you in stock? If not, how soon can ship? Leniency Have none in stock. Lenient First shipment will be made. Legislating How soon can you ship? Have entered order and will ship. How soon can you make first shipment, Lent Legislative Have sent tracer as requested. and how fast remainder? Leonard What substitution can you make? Leonine Have suspended work as requested. Legislator Leonora Too late to cancel order. Leopard Unable to ship goods at time promised. We ship you to-day. Leopols ANSWERS: We expect to ship. Leper Legislature Please specify quantities and trade We will complete your order. Leprosy number. We will ship. Leprous Unable to give better price. We have shipped. Legitimate Lessen Legitlmately We quote. We have completed your order and Lessened We quote for immediate acceptance. **Le**gitimist shipped same. We quote in reply to your inquiry of. Legless. We have entered order. Lessening We quote shipment from stock. Leisure Lethargy Telegraph shipping instructions for

your order of.

telegram.

Lettuce

Levant

Levelness

' Can deliver part of your order at once.

Shall we ship portion or hold till we

can make one complete shipment?

Do not understand your order. Send

Send us official order confirming your

duplicate with full details.

immediately.

Lending Can ship at once on receipt of order.

We quote shipment in.

We cannot accept at the price.

Can ship at once from stock, if advised

We will accept your order.

We do not make the article.

Lengthen Can ship in.

Leisurely

Lemonade

Leming

Lemon

Lender



SWITCHES.



Nos. 802 and 827.



Nos. 803 to 813.



Nos. 828 to 838.

Paiste Single Pole Switch.

			N	letal	Top.						
Code Word.	List No.									1	ist Price
Mange	802	5	Amperes,	each				 			. \$0.25
Manger	827	10	e.	**				 			. 60
Radeliff	20001	5	44	with	grooved	base	each				25
Rago	20002	10	66	44	44	44	44	 			60

Paiste Single Pole China Switch.

Five Amperes.

Mangle	803	White, each	.72
Mangled	804	Ivory, "	.72
Mangler	805	Black, "	.80
Mangling	806	"Roman Gold" Flaked, each 1	.00
Mango	807	Band Gold, each	.00
Mangrove	808	Red, each	.80
Manhood	809	Blue, "	.80
Maniae	810	Oak, "	.80
Manifest	811	Antique Oak, each	.80
Manifested	812	Mahogany, "	.80
Manipulate			.80

Paiste Single Pole China Switch.

Ten Amperes.

Mankind	828	White, each
Manliness	829	Ivory, "
Manly	830	Black, "
Manna	831	"Roman Gold" Flaked, each 1.40
Mannerism	832	Band Gold, each
Mannerly	833	Red, each
Manning	834	Blue, " 1.12
Manor	835	Oak, " 1.12
Mansion	836	Antique Oak, each 1.12
Mantle	837	Mahogany, each
Mantled	838	Walnut, each



Nos. 917 and 918.



No. 936.

The "Bryant" S. P. Switch.

Code Word.	List No.							Lis	t Price.
Apter	917	Capacity,	15	Amperes,	each				\$1.00
Antituted	918	66	25	11	4.6				1.20
Raleigh	999	44	15	44	with	grooved	base	each	1.00
Ralston	1000	66	25	44	66	"	44 .	66	1.20

Double Pole Ratchet Switch.

Marooned	936	5	Amperes,	Bryant	D. P.	Ratchet	Switch,	each,	.75
Marquis	937	10	"	"	**	"	**	.,	1.00

Ratchet Double Pole China Switch.

Ten Amperes.



No. 845.

Memorize 8	5 White, each.		 	 	 	٠.				 		. 1
Memory 18	5 Ivory " .		 	 	 							. 1
Menace 28	5 Roman Gold, e	each		 						 		2
Mend 8	Band "	**	 		 					 		2
Mender 18	6 Red, each		 	 	 							2
	Blue, "											
Menial 8	7 Oak, "		 	 	 							2
	7 Antique Oak,											
Mentally 28	7 Mahogany,	66	 									2
Mention 18	Walnut,		 	 	 							2
Mentioned 8	Black.	**										-

"P. & S." Single Pole Switch.



No. 33

This Switch is all china. The china cover operates the Switch, and there is no key or handle projecting. It is small and very neat in appearance. It has an absolutely quick double make and break, with rubbing contacts, and has an exceedingly long break.

Matins	33	- 9	Amperes,	all china, each	.25
Mattress	331	5	"	decorated china, each	.45
Matrix	34	10	**	all china, each	.35
Matrimony	341	10	**	decorated china, each	.55
Matron	35	5	**	flush, all china, " ,	.25
Matronhood	351	5	4.6	" decorated china, each	.45
Matted	36	10	**	" all china, each	.35
Matter	36+	10	6.6	" decorated china, each	.55



Fig. 1.

"P. & S." All China Switches.

3-Way Single Pole.

Code Word.	List No.		List Price
Roofing	No. 135,	3-Way S. P. Switch, all white,	each \$.40
Roofless	No. 1351,	3-Way S. P. Switch, decorated,	, each

Double Pole Switch.

Fig. 1 shows the Switch with back plate for open work. Fig. 2. shows the back plate for concealed work. The hollow projections D D are intended to extend through the lathing, thus thoroughly insulating the wires. Fasten the plate to the lathing by the screw B, the plastering being done so as to have the plate flush. To connect. wires, remove plates AAAA from Switch, place them in recesses in back plate, bending the wires as shown in Fig. 2. The Switch is held by two screws, in holes C C. Fig. 3 shows under side of Switch with wires held by clamps AAAA

In ordering state whether for concealed or open work.



Ringwell	No. 134,	10 Ampere,	D. P., all white, each	.40
Rooftree	No. 1341,	10 "	" decorated, "	.70

Rook Fig. 3. Rookery

"P. & S. Two-Circuit Switch.

This is a modification of No. 134 Switch, which makes it possible to control two circuits by the one switch in such a manner that either a part or all of the lamps may be used as desired by the operator.

In ordering state whether for concealed or open work.

20182	5	Ampere	all white, each	40
20183	5	66	decorated, "	70

Lazyman's Switch.

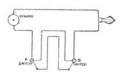


Diagram.

Rooky Room

It is often convenient in residences, as well as in halls and stairways, to be able to light or extinguish a lamp from two points. This can be done as shown in cut. By reference to the diagram of the circuit, it will be seen that at either of the points A or B, the light or cluster of lights controlled by the switch can be turned on or off regardless of the position of the other switch.

In ordering state whether for concealed or open work.

20184	S. P. L	azyman's S	Switch,	all white,	each	.40
20185	44	66	66	decorated	66	.70

20006 40

Revere

Renfree



No. 841.

The "Bryant" Standard Switch. Double Pole.

Code Word.	List No.			-														I.	is	t Price	
Reese	28008	10	Amperes,	ea	ch											,				\$1.00)
Margin	841	15	46	66									.,					 		1.50)
Marginal	842	25	44	44																2.00)
Margrace	843	40	44	44												 ,		 		3.00)
Marigold	844	50	44	44								*1						 		3.50)
			With	Gr	00	v	ec	1	В	a	se										
Renick-	20003	10	Amperes																	1.00)
Reno	20004	15	66																,	1.50)
Renova	20005	25	64																	2.00)

..... 3.00



No. 20003.

Perkins' Switches.

The Gibbs Switch.



No. 2213.

Marine	2213	10	Amper	es, d	ouble	Pole.	, each	١.							1.2
Mariner	2214	15	44		44		"					 			1.7
Maritime	2215	30	66		66		"								2.2
Mark	2216	10	44	f	or con	duit	boxes	3, (ea	ch	 			٠.	1.2
Regina	20009	50	44		double	pole	, eac	h.							5.0
Market	2217	3	Point,	each							 	 			1.3
Market	2218	4	**	"							 	 			1.3

The Gibbs Dial Switch.

Ramer	20010	10 A	mperes	D. P.,	each	 		 					 1.75
Rankleigh	20011	15	66	"	44	 						×	 2.25
Rankinville	20012	30	44	66	66	 						è	 2.75
Randolph	20013	50	66	44	66	 	 						 5.50



No. 20019.

The Gibbs Dial Switch for 500 Volts.

Rankin	20014	3 A	mperes,	S. P.,	each	 1.20
Rapidan	20015	10	66	44	44	 3.75

The Gibbs 500 Volt Switch, No Dial.

Rarenswood	20017	3.	Ampere	s. S. P.,	each	,	.70
	20018						3.25



No. 20116.

Perkins Switches-Continued.

Code Word.	List No.								List	Price.
Robust	20116	No.	11,	5	Ampere,	120	Volt,	S. P	each	.55
Rachet	20117	No.	16,	10	**	120	44	44	"	.70

Gibbs 3 Wire Switch.



Rayburn 20020 For 3 Wire System each 3.00



No. 2229.

Perkins S. P. Switches.

Mate	2229	No.	20,	5	Amperes,	composition	handle,	each	.50
Mateless	2230	66	21,	10	"	44	44	66	.60



No. 20021.

Perkins Flush Plates.

Raymond	20021	For	1	Switch,	Plate	38	х	28	inches	1.00
Rector	20022	66	1	44	66	34	x	3	4	1.25
Redding	20023	66	1	44	66	48	х	35	"	1.75
Redfield	20024	66	2	44	44	5%	X	31	44	2.00
Redford	20025	66	3	44	66	81	х	$3\frac{1}{2}$	44	3.00
Redmon	20026	66	4	44	44	57	X	57	44	4.00
Redoak	20027	66	5	44	66	7	х	7	"	5.00
Redwood	20028	"	6	"	66	81	х	57	"	6.00
Redfie	20029	44	8	46	44	102	X	57	"	8.00

The above price are for plates only.

Standard finish—Polished Brass or Nickel. Special finishes supplied as desired,



No. 9378.



No. 9379.



No. 814.



No. 815.



No. 904.

Edison Flush Pocket Switches.

Code Word	List No.									Lis	Price.
Ringwood	9378	Flush	Pocket	Switch,	10	Amp.,	1	Switch			1.75
Rio	9379	44	44	66	10	16	2	14			3.00
Ripley	9380	66	66	66	10	44	3	44			4.50
Ripon	9381	44	66	64	10	44	4	и	1	row	6.00
Ripleyville	9382	44	- 66	66	10	44	4	14	2	rows	6.00
Ritchie	9383	66	44	56	10	66	6	64			8.50
Riverside	9384	66	66	66	10	44	8	44			11.00

Paiste Three Point Switches.

Metal Top.

Counterplot	814	5	Amperes,	each	 .60
Countess	839	10	**		 .80

Paiste Three Point China Switch.

5 Amperes.

815	Cream White, each
816	White, each
817	Ivory, "
818	Black, "
819	" Roman Gold " Flaked, each
820	Band Gold, each
821	Red, each
822	Blue, " 1.
823	Oak, each
824	Antique Oak, each 1.
825	Mahogany, each
826	Walnut, each 1.
	816 817 818 819 820 821 822 823 824 825

		10 Amperes.
Martyr	904	White, each 1.50
Martyrdom	905	Ivory, · " 1.50
Marvel	906	Black, " 1.50
Marvelous	907	"Roman Gold "Flaked, each 2.00
Masculine	908	Band Gold, each 2.00
Mash	909	Red, each
Mashed	910	Blue, " 1.75
Mashing	911	Oak, " 1.75
Mashy	912	Antique Oak, each 1.75
Mask	913	Mahogany, each
Masked	914	Walnut, each 1.73



No. 65097.

Edison Snap Switches.

These Switches have been designed to break circuits having a potential of not over 125 volts. Flush Pocket Switches of special designs will be furnished on special orders, to suit the finish of the room.



No. 67421.

Enema	65097	10 Amperes, D. P., for interior conduit, each	.85
Enlay	67419	Single Pole Ratchet Switch, capacity 5 amperes,	
		plain, each	.50
Entwine	67420	Single Pole Ratchet Switch, capacity 5 cmperes,	
		polished, each	.40
Entwined	67421	Single Pole Ratchet Switch, capacity 10 amperes,	
		plain, each,	.70
Entwining	67422	Single Pole Ratchet Switch, capacity 10 amperes,	
		polished, each	.60



No. 65095.

Epicure	65095	10	Amperes	D. P.,	polished.	eac	h	.85
Epidemic	65096	10	**	44	nickeled.			.85
Epidemical	65100	25	**	**	polished,			1.40
Epigram	65102	25	**	4.6	nickeled,	44		1.40
Equal	65120	50	**	6.5	polished,	**		1.85
Equaling	65122	50	**	**	nickeled,	**		1.85



No. 57568,



No. 60207.

Code Word.	List No.	List	Price
Equalizing	60207	Push Button Switch, for flexible cord, 1 light, pol- ished, each	.90
Reynolds	9164	Push Button Switch, for flexible cord, 10 light,	1.20

Edison Three-Way Vertical Snap Switch.



No. 65098.

Maneater	65098	Three-way	Switch,	polishe	ed, 10	amperes,	each.	1.0
Manful	65099	66	44	nickel	ed, 10	66	"	1.0
Manfully	65103	66	66	for in	terior	conduit,	10 am-	
		peres, ea	ch					1.0
Munfulness	65104	Three-way	Flush	Pocket	Swite	ch, nicke	led, 10	
		amperes,	each					1.5

Hart Standard Switches.

These Switches are mounted on Porcelain only. The movement is rotary in one direction, by quarter turns, keeping contacts bright and free from dust, and giving the maximum length of break. The actuating spring is of the best steel wire, and as it is not in circuit, its temper cannot be affected by the current. The break is double in all sizes, and in the double pole switches the curcuit is broken at four points. Although not illustrated in the cuts, all standard and flush switches, with the exception of the 50 ampere D. P., are furnished with the adjustable handle.



No. 8235

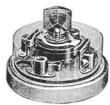
Hart 5 Ampere Single Pole Switch.

Diameter of Base, $2\frac{1}{8}$ inches. Diameter of Cover, $1\frac{1}{8}$ inches. Height, to Base of Handle, $\frac{1}{8}$ inch. Total Height, $1\frac{1}{8}$ inches. Total Break, 1 inch. Binding Posts for Wire to No. 8 B. & S.

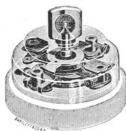
Massy	8235	With	Nickel Plated Cover, each:	60
Massicely	8236	44	Polished Brass " "	60



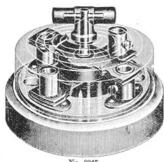
No. 8237.



No. 8239.



No. 8241 and No. 8243.



No. 8245.

Hart 10 Ampere Single Pole Switch.

Diameter of Base, 21 inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 11 inches. Total Height, 14 inches. Total Break, 4 inch. Binding Posts for Wire to No. 6 B. & S.

Code Word.	List No.		List Price
Excrement	8237	With Nickel Plated Cover, each	\$.75
Excremental	8238	" Polished Brass " "	75

Hart 10 Ampere Double Pole Switch.

Diameter of Base, 24 inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 11 inches. Total Height, 14 inches. Total Break, 14 inches. Binding Posts for Wire to No. 6 B. & S.

Excrescence	8239	With Nickel Plated Cover, each	1.35
Excrescent	8240	" Polished Brass " "	1.35

Hart 20 Ampere Double Pole Switch.

Diameter of Base, 27 inches. Diamete of Cover, 25 inches. Height, to Base of Handle, 12 inches. Total Height, 21 inches. Total Break, 3 inches. Binding Posts for Wire to No. 5 B. & S.

Excrete	8241	With	Nickel	Plated	Cover,	each	1.80
Excreted	8242	**	Polishe	d Brass	**	"	1.80

Hart 35 Ampere Double Pole Switch.

Diameter of Base, 27 inches. Diameter of Cover, 24 inches. Height, to Base of Handle, 18 inches. Total Height, 21 inches. Total Break, 3 inches. Binding Posts for Wire to No. 5 B. & S.

This Switch is the same as the 15 ampere double pole, except that the contacts and switch plates are made of phosphor bronze and hard rolled copper.

Excreting	8243	With	Nickel	Plated Cove	er, each	 2.25
Excretion	8244	**	Polishe	d Brass "	44	 2.25

Hart 50 Ampere Double Pole Switch.

Diameter of Base, 4g inches. Diameter of Cover, 4 inches. Height, to Base of Handle, 24 inches. Total Height, 34 inches. Total Break, 31 inches. Binding Posts for Wire to No. 1 B. & S.

Excretive	8245	With	Nickel I	Plated	Cover,	each	 4.50
Excretory	8246	44	Polishee	d Bras	8		 4.50

Counting Country

Masterly Mastersh Masticat



No. 8247.



No. 8249.

Hart 10 Ampere Three-Way Switch.

This Switch is used for controlling lights from either one of two points. A Four-way Switch is used in connection with two Three-way Switches for controlling lights from three or more points. Diameter of Base, 2‡ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 1½ inches. Total Height, 1½ inches. Total Break from one set of contacts, before making contact with the succeeding set 1 inch. Binding Posts for Wite to No. 8 R. & S.

	set, & me	. II.	smanig i	L OSIS IC	A WILL	00 140	. o D. c	x O.	
Code Word.	List No.								List Price.
Excruciate	8247	With	Nickel	Plated	Cover,	each.			\$1.35
Exculpated	8248	6.6	Polishe	d Brass	3 "	**			1.35

Hart 10 Ampere Four-Way Switch.

Diameter of Base, 2½ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 1½ inches. Total Height, 1½ inches.

8249	With	Nickel	Plated	Cover,	each	 	٠.	٠.		٠.	٠.	1.35
8250	**	Polish	ed Brass	3 "	**	 ٠.				٠.	٠.	1.35

Hart Flush Plates.

The Flush Plates are made of solid plate brass ½ inch thick instead of being formed up of thin sheet metal as formerly. No screws show on the surface of the face plate, either in the single or gang plates. Single flush plates are made for all sizes of Hart Switches. Gang plates are made for any number of switches. The stock sizes are for two, three, four, six and eight switches. Five and ten ampere switches may be put on the same gang plate. Prices and dimensions of 15 and 30 ampere gang plates will be furnished upon application.

The standard finishes are nickel, bronze and polished brass. We can furnish the plates in any finish, or to match any house hardware from sample of same.

Self-Adjusting Handle.

The collar has a vertical movement with reference to the body of the handle of 1-16 inch, and is held downward by a flat spring which it encloses and conceals. This spring-pressed collar holds the face-plate firmly against the wall with an easy, elastic pressure. The range of movement of the collar compensates, for all variations liable to occur in the distance from the face of the plate to the porcelain base of the switch. This adjustment makes all handles, switches and face plates interchangeable. This adjustment is especially advantageous in gang plates. This adjustable handle is furnished with all Hart Standard and Flush Switches.

No. 1 Flush Plate.

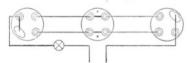
ONE SWITCH.

Length, 3\u00e3 inch. Width, 2\u00e4 inch. Opening required for Switch, 2\u00e4 inch. diameter.

y	8208	Plate only,	nickel, each	1.20
hip	8209		bronze, each	
te	8210		brass, each	



The method of connection for Three-Point Switches is shown in the above diagram.



To control lights from three points or more the Hart 4-Point Switch is used. The above diagram shows the method of making connection.



Hart Flush Plates—(Continued).

No. 1 A Flush Plate.

		Lengt	h, 41 inch. Width, 31 inch.	
Code Word	List No.			st Price.
Mastered	8211	Plate	only, nickel, each	 \$1.50
Mastering	8212	**	bronze, each	 1.50
Masterless	8213	4.4	brass, each	 1.50

No. 1 B Flush Plate.

ONE SWITCH.

This Plate is adapted for use with interior conduit branch boxes, and the Switches for use with same are our regular Switches, but with special porcelain basis, one and fifteen-sixteenths inches in diameter. The Switch is attached to a cast plate as with the standard Plates, and this Plate is clamped to the conduit box, and has an adjustment of one-sixteenth inch to allow for a variation in the setting of the box.

Diameter of Plate, 27 inch.

Mast	8214	Plate only	, nickel, each		 	 	1.20
Masted	8215	**	bronze, each	 	 	 	1.20
Master	8216	**	brass, each		 		1.20

No. 1 C Lock Flush Plate.

ONE SWITCH.

Length, $3\frac{7}{8}$ inch. Width, $2\frac{5}{8}$ inch. Opening required, $2\frac{5}{8}$ inch, diameter. One fllat steel key is furnished with each Plate.

8217	Plate only,	nickel, each	1.50
8218	47	bronze, each	1.50
8219	4.6	brass, each	1.50

No. 2 Flush Plate

Two Switches,

Length, $2\frac{7}{8}$ inch. Width, $2\frac{1}{2}$ inch. Opening required, $4\frac{7}{8} \times 2^{5}_{16}$ inch.

These Plates can be furnished to special order with one Lock and one Handle Switch, the Lock Switch being connected in series with and controlling the use of the Handle Switch.

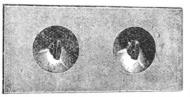
Masonry	8220	Plate only,	nickel, each	2.40
Masquerade	8221	16	bronze, each	2.40
Mass	8222	64	brass each	2.40



No. 8214



No. 8217.



Masker Mason Masonic

No. 8220



Hart Flush Plates - (Continued).

No. 3 Flush Plate.

THREE SWITCHES.

Length, 9⅔ inch. Width, 3⅓ inch. Opening required,
7⅓ x 2⅔ inch.

Code Word. List No. List Price.

Massacre 8223 Plate only, nickel, each ...\$3.60

Massacre 8224 "bronze, "3.60

Massire 8225 "brass, 3.60

No. 4 Flush Plate.

FOUR SWITCHES.

	Lengt	h, 6% inch.	Width,	61 inc	h.	Op	eni	ng	r	ec	lu	ire	ed	,	
Exhaust		Plate only,	nickel,	each.											4.80
Exhausted	8227	44	bronze,	" .											4.80
Exhauster	8228	44	brass,	**											4.80

No. 6 Flush Plate.

SIX SWITCHES.

No. 8 Flush Plate.

EIGHT SWITCHES.

	Lengt		Width, 61	. (Opening required,										
Exhalent	8232	Plate only,	nickel, eac	h											6.60
Exhalation	8233	64	bronze, "					٠.							6.60
E .Lala	9224	61	brace "												6.60



No. 915,

Paiste Flush Switch.

fanual	915	Single pole, 10	amperes, eac	ch	1.30
fanually		Three point, 10			1.50

With nickel face plates. Special finishes to order,



No. 2219.

Perkins Flush Switch.

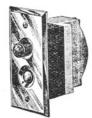
Diameter of base, 2½ inches. Length of plate, 3§ inches. Width, 2½ inches.

Flush Switches Nos. 12 and 61 are supplied with composition handles, which is the only handle that can be used with No. 61, but the double pole Switches will be furnished with metal handles if desired.

This Switch is made in three or four point, with or without flush plates.

Code Word.	List No.						List Price.
Manuscript	2219	No	.52	10	Amperes,	D. P.,	flush, each\$2.25
Map	2220		53.				with key, cach 2.50
Maple	2221	44	61,	10	**	single	pole, each 1.75

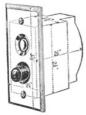
For 220 volts; will take wire up to No. 7 B. & S.



No. 241 to 246.

C-S Flush Double Push Switch.

Discerning	241	10 Ampere, Single Pole, Double Break, Nickel	
		Face, each	2.00
Discerningly	242	10 Ampere, Single Pole, Double Break, Brass	
		Face	2.00
Discharged	245	15 Ampere, Double Pole, Double Break, Nickel	
		Face, each	2.50
Discharging	246	15 Ampere, Double Pole, Double Break, Brass	0.000
		Face, each	2.50



No. 241 to 246.

FACE PLATES IN COLORS OTHER THAN POLISHED BRASS AND NICKEL.

Silver, Silver Oxidized, Silver Mottled, Bronze,	
Bronze Oxidized, Copper Oxidized, extra	.25
beyond polished brass or nickel	.50
Gold	.75

Other colors or specially designed face plates, special. Unless otherwise specified, nickel will be sent.



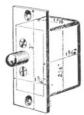
No. 247 to 250.



No. 247 to 250.



No. 251.



No. 251.

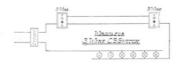
C=S Flush Commutation Switch.

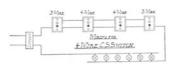
List No.								List	t Price.
247	5	Ampere,	Four	Wire.	Nickel	Face,	cacl	h	\$4.00
248	5	.64	**	11	Brass	**	**		4.00
249	10	**	Three	***	Nickel	**	**		2.50
250	10	**	**	**	Brass	**	4.6		2.50
	247 248 249	248 5 249 10	247 5 Ampere, 248 5 " 249 10 "	247 5 Ampere, Four 248 5 249 10 Three	247 5 Ampere, Four Wire, 248 5 " " " 249 10 " Three "	 5 Ampere, Four Wire, Nickel 5 Brass 10 Three Nickel 	247 5 Ampere, Four Wire, Nickel Face, 248 5 " " Brass " 249 10 " Three " Nickel "	247 5 Ampere, Four Wire, Nickel Face, each 248 5 " " Brass " " 249 10 " Three " Nickel " "	247 5 Ampere, Four Wire, Nickel Face, each

FACE PLATES IN COLORS OTHER THAN POLISHED BRASS AND NICKEL.

Bronze	Oxidized,	Copper	Oxidized,	extra	
beyond	polished br	ass or nick	kel		.25
Bower B	arfe				.50
dold					75

Other colors or specially designed face plates, special. Unless otherwise specified, nickel will be sent.





C-S Flush Automatic Switch.

STRICTLY AUTOMATIC.—Opening door turns on the light; closing door shuts off light. Obviates necessity of placing Switch on outside of a dark room. Adapted also to be set underneath striker-plate of door-lock, so that unlocking door from outside turns on light, while locking it from outside turns it off.

EFFICIENT BURGLAR ALARM.—Intruder confronted by a bright light immediately upon opening a door.

Disclose

251 5 Ampere, Single Pole, Brass Face, each...... 2.00



No. 254 to 258.



No. 254 to 258.

Co-co

No. 259 and 260.



No. 259 and 260,

C-S Flush Key Switch.

Code Word.	List No.	List	Price.
Discolor	254	15 Ampere, Double Pole, Double Break, Nickel Face, each	2.50
Discomfort	255	15 Ampere, Double Pole, Double Break, Brass Face, each	2.50
Discomfortable	256	10 Ampere, Three Wire, Double Break, Nickel Face, each	2.50
Discomforted	257	10 Ampere, Three Wire, Double Break, Brass Face, each	2.50
Discomforting	7 258	Keys, per dozen	1.25

Disciplined	259	10 Ampere, Single Pole, Double Break, Nickel	
		Face, each	2.00
Disclaim	260	10 Ampere, Single Pole, Double Break, Brass	
		Face, each	2.00
Disclaimer	261	Keys per dozen	1 25

FACE PLATES IN COLORS OTHER THAN POLISHED BRASS OR NICKEL.

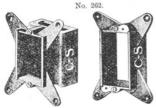
beyond polished brass or nickel, cach			21.9	ΟI	0.2	2.0			Ŋ	ίo	tt	le	d	,	C.	xt	T
	r	0 8	or	. 1	ni	c	k	el	,	C:	ıc	lı					
Bower Barfe							,										

Other colors or specially prepared face plates, special. In ordering, state particularly the kind of box wanted, whether with or without lugs.

FIRST MALL SCIONO MALL DEMAND ROCK TUBERARY

Size of Gang Face Plate, Four Switches.





No. 20114.

No. 263.

D

Disc

Robe

Robinet



No., 20115.



Iron Wall Box, Four Switches.

C-S Flush Switch Accessories.

GANG FACE PLATES FOR DOUBLE PUSH SWITCH.

A comparison between the cut of plate for a single Switch and that of gang face plate for four Switches will show that by using the gang plate a saving of wall space of about $1_{1^{\prime} g}^{\prime} \times 3_{4}^{\ast}$ is effected, besides presenting a better appearance than by placing four face plates side by side. In like manner, the gang face plate for six Switches saves a wall space of $2_{1^{\prime} g}^{\prime} \times 3_{2^{\prime} g}^{\prime}$.

For Switches complete, in gangs, up to six Switches in gang, without iron boxes, same price as for same number singly.

Beyond 6 Switches in gang, special.

Wooden Mat.

The Wooden Mat is furnished singly or in gangs to order, in any wood desired. It offers a convenient device for concealing the broken edges of the plastering made in cutting away for the switch body

ode Word.	List No.	List Price.
Discommend	262	Wooden Mats, single switch, each \$0.30
		Each additional switch, to and including 6 switches 15

Mats beyond 6 switches, special.

Iron Wall Box.

The Iron Wall Box is intended to be put in while the building is in process of construction. The edge of the box comes flush with the plastering. Furnished singly or in gangs of 2, 3, 4, 5 and 6.

ommode	263	Iron Wall Box, single switch, each Each additional switch, to and including 6 switches	.15
		Boxes beyond 6 switches, special.	
	20114	For 1 Switch	.45

20114	FOR I SWITCH
	Each additional Switch
Hole	in top and bottom of box is arranged for reception

.36

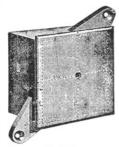
Each additional Switch.....

Box fitted with nipples for either 2 or ½ inch iron con duit, or, if preferred, tapped for either size tube. In ordering styles "Robe" and "Robinet" state particularly What size or fitting of conduit is required.

Dimensions of Iron Wall Boxes.

No. Switches.	Length.		Breadth.		Depth.
1	2,1	x	3,70	X	1,5
2	34	X	374	x	111
3	54	x	3,4	X	111
4	7,7	x	3,1,	·x	111
5	9,3	x	3,1	X	$1\frac{11}{32}$
6	11	x	3,1	x	111

Lock Switches.



No. 2222.

Perkins Lock Switch.

Code Word.	List No.								List Price.
Marbled	2222	No.	40,	10	Amperes.	double	pole,	each	\$3.75
March	2223	44	41,	15	**	**	**	1.6	4.50

For 220 Volts.

Nos. 40 and 41 are especially adapted for use where it is desirable that only authorized persons should have access to the Switch, for which purpose a spring lock fastens the flush plate to the cast iron box containing the Switch, and nó one unprovided with a specially designed key can either remove the plate or turn the Switch

This pattern has been found to be very desirable in insané asylums and similar institutions.



Bryant Chandelier Switch.

Exceptions

947	5 Ampere, complete with 6-foot Chain and Ring,	
	each	1.50
	Extra Brass Chain, per foot	.05
	Extra Brass Rings	.05

This Chandelier Switch is intended to be placed in the canopy of the chandelier, and is fitted with a clamping attachment on the back which clamps around the pipe, and is held in place by a set screw. Is rated at ten amperes. The chain can be dropped down between the pipe and the shell of the chandelier, or through a small hole in the canopy outside of the chandelier. It is fitted with brass ring hanging below the chandelier, the first pull of which lights the entire chandelier, the next pull cutting it off.

Chain and ring can be furnished to special finish where desired to match any finish of fixture.



Anchor Switches.

Single Pole.

Code Word.	List No.										L	East E	rice.	
Rockland	20066	5 A	imperes,	s. P			 			 	 	\$.27	7
Rock ricer	20067		44	44									.33	
Rock side	20068	10	66	"	500	Volt		 					1 26	6

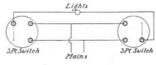


Double Pole.

Rock sprin	gs 20069	10 A	mperes,	D. P	 		 		 ٠.	 .63
Rockton	20070	20	44	"		 	 	 	 	 1.00
Rockville	20071	30	46	66		 	 	 	 ١.	 1.26

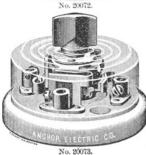
Three Point.

Three point Switches are used to control lights from either one of two points. The method of connection is shown herewith.



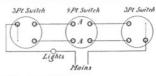
20072 10 Amperes, 3 pt. Switch Rocky run

ANCHOR ELEC.CO



Four Point.

To control lights from three or more points, two 3 pt. switches are used at two of the points, and a 4 pt. switch at each additional point up to any desired number. The method of connection is shown below.



Rock pie

20073 4 pt. switch.....

List Price.



Anchor Switches.

Key Switch.

Code Word.	List No.															Each.
Rod	20074	5	Amperes,	8	. P.	. Ke	v .							į.		\$.63
	20075	10	44		-66	66										.69
Rod corner	20076					"										.96
Rod point	20077					66										1.26
Rod place		10				500										1.62
Rod town		10				., Ke		-								.99
Rodeille	20080	20			66											1.36
Roddy	20081	30	44		"	44										



No. 20074.

Rod stick

Anchor Square Switchblock.

Of great convenience in leading in wires to switch, in moulded or cleat work.

20082	Fits 5, 10 Amp. S. P., 10 Amp., D. P	.12
20083	Fits 20 and 30 Amp., D. P	.14

No. 20082-20083.

Anchor Push Button Switches.

These Switches are made in "gangs" to order. Switches are finished regularly in nickel.

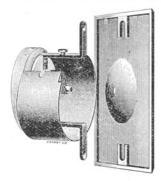
Special finishes, copper, silver, bronzes, etc., also to imitate onyx, pearl, etc., to order.



Rod aim	20084	20	Amperes,	D.	.]	P							 ,						
Rod shoot	20085	20	44	S.	.]	P		o										 	
Rod hill	20086	20	66	3	r	t								,				 	
Rod mont	20087	20	44	4	r	t													

Cast Iron Pockets for Anchor Switches.

Rod mill	20089	Pocket for	1	Switch					 							
Rod pond	20090	44	2	66					 							
Rod gun	20091	66	3	66				 ·	 							
Rod city	20092	44	4	66												
Rod farm	20093	44	5	44					 							
Rod house	20094.	66	6	66					 							
Rod barn	20095	66	8												 	





Anchor Flush Plates.

The following prices are for plates only. To obtain the net price of the plate and switches complete, add the net price of the plate to the net price of such switches as are desired.

Keys for each switch, extra each	.30
Special finish, bronze, copper; etc., each plate	
extra each25 to	1.00
Enamel imitating marble, onyx, pearl, etc., each	
plate extra each 1.00 to	5.00

The Anchor Flush Plates are made, except the single switch, of solid plates, one-eighth inch thick, which fluish with a smooth surface.

The handle is so designed as to be practically flush. A spring beneath the handle makes the plate absolutely

rigid.

Note the feature of the removable shell; by simply loosening one screwthe shell may be removed for wiring.

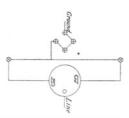
The standard finish is nickel. We can furnish the plates in any finish, or to match any house hardware.

plates in any finish, or to match any house hardware, from sample, at slight extra cost, also enameled to match onys, marble, pearl, etc. The plates project one-eight inch from face on wall, the switch itself being recessed in the wall. The depth of recess required is given in table below. In the multiple plates any or all of the switches may be "lock" and of any size given below.

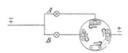
We make to order plates of any desired size other than given, and for any number of switches.

In ordering use catalogue number of plate and specify the size of switch. When special finish is required send a sample with order.

Code Word.	List No.					No. of Switches on plate.	Size Plate		Horizontal Length Recess.	Depth Recess.	Vertical Length Recess	List Price.
Rour	20096	5 and 10	amp.,	S. P		. 1	34x	3	2,3	2,3	13	.60
Roaring	20097	66	66	66		. 2	34x	54	2,8	41	18	2.10
Roaring Creek	20098	66	66	66		3	34x	77	2,3	63	18	3.30
Rob	20099	44	44	66		4	54x	54		41	13	4.20
Roberts	20100	44	66	66		6	54x	77	41	68	18	5.40
Roberts Creek	20101	66	66	66		. 8	54x1	0	41	84	12	6.75
Robin	20102	3 pt, 4 pt	and I	am	., D. P	. 1	34x	3	28	23	12	.60
Robinson	20103	"	66	66	**	2	33x	64	28	44	13	2.10
Robinsdal	20104	44	66	44	66	3	37x	88	28	74	18	3.30
Rock	20105	66	44	66	44	4	61x	61	42	42	18	4.20
Rockbridge	20106	66	44	44	44	6	64x	88	42	74	13	5.40
Rock Creek	20107	44	66	66	66	8	64x1	1	42	91	18	6.75
Rock Cut	20108	20 and 30	amp.,	D. I		. 1	44x	49	31	31	18	1.00
Rockdale	20109	44	66	66		. 2	44x	79	3‡	61	18	2.25
Rock Elia	20110	44	44	66		. 3	42x1	1	31	91	18	3.50
Rock Falls	20111	66	44	66		4	74x	72	61	61	18	4.75
Rock Field	20112	66	66	66		. 6	74x1	1	61	91	18	6.00
Rock Hill	20113	44	"	ч.		8	72×1	14		121	18	7.25



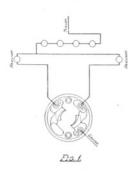
Connections for Two Circuit Switch.



Connections for No. 9 and Dimmer Switch.



No. 20016.



Special Switches.

Hart Two Circuit Switch, 10 Ampere.

This Switch is especially designed for lights in electric street cars, where there are four lights inside the car and one at each end outside. The four lights inside, and one "end" light, are turned "on" and "off" successively, by the first half revolution of the switch handle. The second half revolution of the handle turns "on" and "off" the inside lights and the other "end" light.

Hart No. 9 Switch, 10 Ampere.

The first quarter turn of the handle lights a portion of the lamps on an electrolier; the second quarter turn lights the balance of the lamps. The third quarter turn puts out those last lighted, and the fourth quarter turn puts out those first lighted.

Hart Dimmer Switch.

This switch is used with two lamps in series, for "night lights." The first quarter turn connects the lamps in series, giving a dim light. The second quarter turn short-circuits one of the lamps, allowing the other to burn to full candle power. The third quarter turn connects them again in series, and the fourth quarter turn opens the circuit.

The price of above switches is the same as the net price of the 10 Ampere D. P. Hart Switch.

Head-Light Switch.

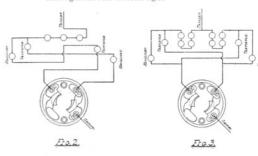
3 Point, 3 Amperes, 500 Volts, Double Break.

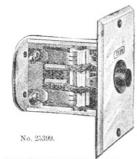
This switch will break the circuit, no additional switch being required for that purpose.

The Head-Light Switch is used in street cars when it is desired to put in circuit with the interior lights either one of the head-lights. The method of connection is shown in Figure 1. It can also be used to put in circuit with the interior lights, either head-light and the vestibule light at other end of car.

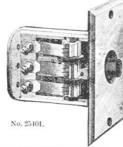
Figure 2 shows the connections for 3 interior lights, front head-light and rear vestibule light.

Figure 3 shows connections for 8 interior lights, front head-light and rear vestibule light.





Single Pole showing Cap removed.



Three-Way showing Cap removed.





Diagram of Connections,

New York Flush Switch.

(PATENTED.)

Operated with a single button. Alternate pushes turn lights off or on. Single and Double Pole Switches have indicating dials as shown in cut.

The working parts are entirely of metal and cast welded glass. Cast welded glass is the best known insulator for a purpose of this kind and will not absorb a particle of moisture, even if it should become cracked or chipped.

		List I	ch.
Acarpous	25399	Single Pole \$	1.70
Acarus.	25400	Double Polé	2.00
Acatalectic	25401	Three Way	2.00

Stock switches finished with nickel plated face plates. Special finishes furnished on short notice.

Heat Regulating Switch.

15 Amperes, 500 Volts, Quadruple Break.

The handle upon being turned from left to right, raises by means of a screw thread cut thereon, a nut loose in the insulating block, which is then carried forward, as soon as released from a lock in the base, with great rapidity, and after a quarter revolution drops again into a lock.

The parts revolve in one direction only.

The loose contact pins, allow automatic adjustment between the points, so that when "made," contact is assured with every point by the pressure of strong spring copper brushes upon one end of the pin, forcing the other against the adjoining contact plates.

When in contact, the insulating block is free to move slightly in any direction, and can not possibly bind the contact pins.

The four simultaneous breaks of the circuit each time the switch is turned from one position to the next reduces the sparking to a minimum.

The Heat Regulating Switch is used for the regulation of heat by different combinations of the heaters,

On the commutator are four raised bosses or dials on which are printed "OFF," "1," "2," "3," respectively. These dials appear successively before a hole in the cover, and thus indicate the position of contacts in commutator.

From the "off" position, as indicated by dial, the first quarter turn connects in circuit the heaters No. 1, and figure 1 appears on dial.

The second turn throws out of circuit heaters No. 1 and connects in circuit heaters No. 2, and figure 2 appears on dial.

Heaters No. 2 being of greater capacity than No. 1, a larger amount of heat is generated.

The third turn connects heaters No.1 and No.2 in parallel, which gives the maximum amount of heat, and figure 3 appears on dial.

The H L Switch.

This switch is specially adapted for use in connection with a door for automatically throwing incandescent lamps in and out of circuit. It is circular in form, allowing it to be mounted in the casement of a door or in the wall with very little trouble—it being only necessary to bore a hole the size of the switch shell. It is made either as a single pole double break switch or a 3-point switch. It is mechanically strong and has a long, quick break. It may be used on 110 or 220 volt circuits It will break three amperes at 220 volts and 5 amperes at 110 volts. Its carrying capacity at any voltage less than, 110 volts is rated at 5 amperes.

When the door is opened the push projects forward, actuated by a spring. This movement turns the lights on. The closing of the door simply sets the switch in position ready to turn off the lights as soon as the door is opened again but while the door remains closed the lights continue to burn. When the door is opened the second time the lights are turned off.

This switch is designed specially for bathrooms, telephone booths and vaults, where the person entering the room desires to turn on the lights and at the same time close the door and upon leaving the room desires the lights to be turned off automatically. This switch may also be used for lighting long hallways where light is wanted only while a person is passing through the hall, a switch of the 3-point description being placed in each door, when the door at one end of the hall is opened the lights are turned on and the opening of the door at the other end turns them off

 Acathistas
 25405
 Single Pole
 \$3.0

 Acadescent
 25406
 Three Point
 5.0

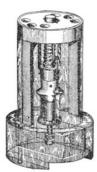


The object of these Switches is to furnish a device that will automatically throw on or off the incandescent lights as desired.

The door switch has one end arranged to take the place of that part of the lock which is fastened in the door jamb and into which the bolt of the lock fits when the door is locked. The bolt of the lock presses upon a projection of the switch which throws off the lights when the bolt is withdrawn from the jamb. By unlock the door the projection of the switch is released and the lights are turned on.

This same principle is used in the closet switch, excepting that the projection which operates the mechanism of the switch extends about one-fourth inch beyond the flush surface of the switch.

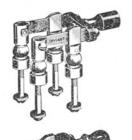
The switch is placed in the jamb of the door to which the hinges of the door are fastened. When the door is closed it depresses the projection so that it becomes flush with the door jamb and this turns off the lights. The opening of the door releases the switch and the and the lamps are turned on.



No. 25071

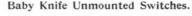
 Somner
 25071
 Door Switch, each
 1.2

 Somniat
 25072
 Closet Switch, "
 1.3



BUTTON HANDLE.

Unmounted Switches, Types "A" and "B" furnished with above style of handle



Note.—Prices on Unmounted Switches do not include Screws.

Screws of any size and length furnished at cost,

For Tablet Board Work. Type A.

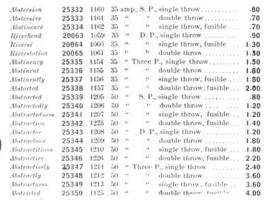
Code Word.	List No.						List	Price.
Ring	20053	15	Amp.	, S. P. S. T.,	Unmounted,	each	\$.30
Ringle	20054	15	64	D. P. S. T.	66	44		.50
Ri	20055	15	74	S. P. D. T.,	*4	41		.50
Rio Breek	20056	15	4.0	D. P. D. T.	66	44		.70
Riples	20057	15	44	3 Wire, S. T.	46	44		.80
Ripo	20058	25	66	S. P. S. T.	66	44		.35
Rising	20059	25		D. P. S. T.	**	66		.60
Ritrock	20060	25	66	S. P. D. T.	44	4.5		.70
Riverdane	20061	25	66	D. P. D. T.		44		.90
Riverfalls	20062	25	**	3 Wire, S. T.	66	44		1.00
Acapella	25397	15	66	3 Wire, D. T.	64	66		1.00
Acaridan	25398	25	"	3 Wire, D. T.	64	"		1.20

Type "B" Unmounted Knife Switches.

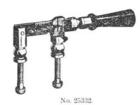
Code Word.	List No.	B. E.	No.						Lis	Each.
Abstentiously	25328	1103	15	amp.,	double	pole,	single	throw		\$0.32
Absterniousness	25329	1152	15	44	**		double	throw		.50
Abstention	25330	1075	25	**	46		single	throw.		.36
Abstergent	2533 i	1153	25	"	+4		double	throw		.60

Type "C" Unmounted Knife Switches.

Single Break.



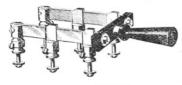






Type "E" Double Break Knife Switches.

Unmounted.



No			

Code Word.	List No	B. E. Co). No).)	Price.
Abstringe	25351	1214	50	am	p., S. P	, single throw	1.00
Abstrude	25352	1215	50	44	**	double throw	1.70
Abstrusely	25353	1216	50	14	44	single throw, fusible .	 1.70
Abstruseness	25354	1223	50	66	61	double throw, fusible.	 2.00
Abstrusion	25355	1217	50	66	D. P.	, single throw	 1.50
Abstusity	25356	1218	50	**	44	double throw	 2.30
Absume	25357	1219	50	**	**	single throw, fusible.	 2.30
Absumption	25358	1224	50	60	41	double throw, fusible.	 3.00
Absurdness	25359	1220	50	**	Three	P., single throw	 3.00
Abuna	25360	1221	50	66	16	double throw	 4.30
Abundant	25361	1222	50	64	**	single throw, fusible .	 4.30
Abundantly	25362	1126	50	61	66	double throw, fusible.	 4.50

No. 20040.

Type "A" Baby Knife Switches,

Single Throw.-Porcelain Base.

Richhill	20040	1001	15	amperes,	S. P. S. T\$.30
Richford	20041	974	15		D. P. S. T	.50
Richland	20042	1052	15	66	3 Wire, S., T	.80
Richwood	20043	977	25	11	S. P. S. T	.36
Richview	20044	978	25	61	D. P. S. T	.60
Richmond	20045	979	25	- 44	3 Wire, S. T	1.00

Double Throw-Porcelain Base.

Ridge	20046	1039	15	amperes,	S.	P.	D. T	.50
Ridgewood	20047	1041	15	44	D.	Ρ.	D. T	.80
Ridgeroud	20048	1040	25	16	S.	P.	D. T	:70
Ridgetop	20049	1042	25	44	D.	P.	D. T	1.00

Slate Base.

Abusable	25363	1158	15 a	mperes, 3	Pole,	D.	Т	1.20
Abusane	25364	1159	25	66	64	66		1.40



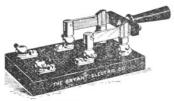
Type "B" Baby Knife Switches.

Single Throw.--Porcelain Base.

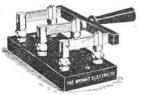
					_	
Abuseful	25365	1102	la amper	es, D. P. S.	T	.35
Abuser	25366	1074	25 "	44		.40



No. 25357.



No. 20052.



No. 25376.



No. 25382.

Type "C" Single Break Knife Switches. Single Pole, Slate Base.

CodeWord. List	t No. B.	E. No.				Lis	t Price.
Abusion	25367	1147	35 a	mpere	s, S. P. S.	T,	.80
Abusively	25368	1187	50	44			1.00
Abusiveness	25369	1148	35	14		T	
Abutter	25370	1188	50	44	44		
Abrolate	25371	1149	55	64	S. P. S.	T. fusible	1 30
.1bcolation	25372	1189	50	44	S. P.S.	т. "	1.60
		Doub	le Po	le, S	late Base.		
Ridgeville	20050	1043	35 a	mpere	s, P. P. S.	T	1.00
.16y	25373	1190	50	"	66		
Riley	20052	1044	35	44	D. P. S.	T. for fuse	1.50
Abysmal	25374	1192	50	64	64	"	1.90
Ridgeway	20051	1045	35	66	D. P. D.	T	1.50
.1byssull	25375	1191	50	44	66		1.90
		Thr	ee P	ole, S	late Base		
Abyssinian	25376	1099	35 a	mpere	s, three po	ole, S. T	1.50
Acacian	25377	1193	50	66	**	"	2.50
.leudeme	25378	1101	35	64	44	D. T	2.25
Academial .	25379	1194	50	64	- 66	"	3.60
Academian	25380	1100	35	44	44	for fuse, S. T.,	2.50
Academic	25381	1195	50	44	46	" S. T.	3.80

Type "D" Knife Switches.

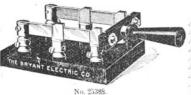
Mounted on Porcelain Base, which can be furnished either Black Enameled o- White Glazed.

Single Break.

Academical	25382	1184	50 amperes, double pole, single throw, with black enameled base	1.40
Academician	25383	1185	50 amperes, double pole, single throw, with white glazed base	1.40
			Double Break.	
Academism	25384	1236	50 amperes, double pole, single throw, with black enameled base	2.00
Avademist	25385	1237	50 amperes, double pole, single throw, with white glazed base	2.00
.leadian	25386	1238	35 amperes, double pole, single throw, with black enameled base	1.50
A catephh	25377	1230	35 amperes, double pole, single throw, with white glazed base	1.50

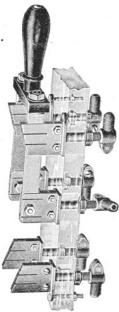
Porcelain is superior to slate as an insulator, and is much stronger.

Type "E" Double Break Knife Switches.



Acateplat	25388	1190	50	amperes,	double	pole, single throw	1.50
Acatephan	25389	1200	50	61	64	double throw .	2.30
Acalephoid	25390	1201	50	66	66	single throw, fusible	2.30
Aculycine	25391	1202	50	amperes,	three p	ole, single throw	3.00
Acatycinous	25392	1203	50	16	66	double throw	4.30
Acantha	25393	1204	50	66	14	single throw, fusible	4.30
.leanthice	25394	1196	50	amperes,	single p	pole, single throw	1.00
.leanthine	25395	1197	50	14	66	donble throw	1.70
lounthinn	25396	1198	50	"	**	single throw, fusible	1.70

List Price.



No. 20312.



No. 20285.

The Western Electric Knife Switch.

Type E.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.

These switches are all rolled tempered copper, and the greatest care in design and construction has been used in order to obtain a switch that would carry its rated capacity in amperes without showing any heating of its parts. In placing and fastening the jaws in position they are not soldered but bolted to the metal plates or lugs. By this method the temper of the jaws is in no way injured, and they will always grasp the blade of the switch with an equal and unvarying contact which will not deteriorate with time.

The hinge contact is made in the same way and the bolt which passes through the hinge is provided with a lock nut, preventing any liability of loosening or poor contact at this point. The blades are of drawn copper, hand finished.

The base is extended for connections on back of board and is secured in place by a lock nut. Swivel connections are provided which will admit of the circuit wires being brought into the switch from any direction.

Note.—These Switches are all made to gauge and any repair part can be obtained and a damaged part replaced in a few moments. These Switches are listed for switchboard work unmounted. If desired they will be furnished mounted upon slate bases with front connections, at an advance of 20 per cent. over the price of those with back connections unmounted.

Special prices quoted on Type E Switch, for 500, 1000 and 2000 volts.

Single Pole, Single Throw.

Code Word.	List No.						Each.
Rotate	20282		up to	50	Ampere	capacity	 5.60
Rotated	20283	'E 21	66	75	44	66	 6.30
Rotateplane	20284	E 31	**	150	66	66	 8.10
Rotarypump	20285	E 41	44	300	44	44	 11.90
Rotation	20286	E 51	**	450	44	44	 14.40
Rotative	20287	E 61	64	600	66	44	 20.70
Rotator	20288	E 71	66	800	66	46	 26.30
Rote	20289	E 81	44	1200	66	66	 43.10
Rotgut	20290	E 91	66	2000	**	66	 63.40
		cı.	olo D	olo	Double	Throw	
		Sin	gle P	ole,	Double	Throw.	
Rother beasts	20291	E 12	up to	50	Ampere	capacity	 6.70
Rothernail	20292	E 22	66	75	66	44	 7.70
Rothersoil	20293	E 32	44	150	66	66	 10.10
Rotifer	20294	E 42	44	300	**	44	 14.70
Ratiform	20295	E 52	66	450	66	4.	 19.50
Rotten	20296	E 62	"	600	66	44	 26.30
Rottenly	20297	E 72	"	800	66	44	 34.70
Rottenness	20298	E 82	44	1200	66	44	57.00
Rottenstone	20299	E 92	"	2000	**	44	 84.00

The Western Electric Knife Switch.

(Continued.)

Type E.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.

Double Pole, Single Throw.



No. 20300.

Code Word	List No						1	ist Price.
Rotular	20300	E 13	up to	20	Ampere	capacity		7.80
Rotund	20301	E 23	46	75	**	**		9.20
Rotunda	20302	E 33	44	150	44	66		12.90
Rotundity	20303	E 43	66	300	44	44		18.70
Rotundo	20304	E 53	44	450	44	44		25.70
Rouanne	20305	E 63		600	*44	66		34.70
Rouble	20306	E 73		800	44	66		45.80
Rouche	20307	E 83		1200	44	44		79.40
Rone	20308	E 93	44	2000	44	44		129.10
		Do	ıble I	Pole,	Double	Throw.		
Rouet	20309	E 14	up to	50	Ampere	capacity		10.10
Rouge	20310	E 24	66	75	66	44		12.10
Rough	20311	E 34	66	150	66	44		17.00
Roughcast	20312	E 44	66	300	66	66		24.30
Roughcaster	20313	E 54	66	450	"	44		34.00
Roughdrane	20314	E 64	44	600	**	44		45.80
Roughen	20315	E 74	44	800	44	44		62.60
Roughfooted	20316	E 84	66	1200	44	44		107.20
Roughheved	20317	E 94	44	2000	44	44		161-40
		Th	ree F	Pole.	Single '	Throw.		
		Th	ree F	ole,	Single '	Throw.		
Roughheitér	20318		up to	ote,		Throw.		13.00
Roughhewêr Roughhewn	20318							13.00 17.20
Roughheitér Roughheitn Roughings		E 15	up to	50	Ampere	eapacity		
Roughheun	20319	E 15 E 25	up to	50 75	Ampere	capacity		17.20 19.80 29.30
Roughheurn Roughings	20319 20320 20321	E 15 E 25 E 35	up to	50 75 150	Ampere	eapacity " " "		17.20 19.80 29.30 41.40
Roughhewn Roughings Roughish	20319 20320 20321	E 15 E 25 E 35 E 45	up to " "	50 75 150 300	Ampere	eapacity " " " "		17.20 19.80 29.30 41.40 54.30
Roughheien Roughings Roughish Roughlegged	20319 20320 20321 20322	E 15 E 25 E 35 E 45 E 55	up to " " " " "	50 75 150 300 450	Ampere	capacity " " " " "		17.20 19.80 29.30 41.40 54.30 71.80
Roughheen Roughings Roughish Roughlegged Roughly	20319 20320 20321 20322 20323	E 15 E 25 E 35 E 45 E 55 E 65	up to "	50 75 150 300 450 600	Ampere	eapacity " " " " " " " "		17.20 19.80 29.30 41.40 54.30 71.80 118.30
Roughheirn Roughings Roughish Roughlegged Roughly Roughness	20319 20320 20321 20322 20323 20324	E 15 E 25 E 35 E 45 E 55 E 65 E 75	up to " " " " "	50 75 150 300 450 600 800	Ampere	capacity " " " " "		17.20 19.80 29.30 41.40 54.30 71.80
Ronghheun Roughings Roughish Roughlegged Roughly Roughness Roughrider	20319 20320 20321 20322 20323 20324 20325	E 15 E 25 E 35 E 45 E 55 E 65 E 75 E 85	up to "	50 75 150 300 450 600 800 1200	Ampere	eapacity " " " " " " " "		17.20 19.80 29.30 41.40 54.30 71.80 118.30
Ronghheun Roughings Roughish Roughlegged Roughly Roughness Roughrider	20319 20320 20321 20322 20323 20324 20325	E 15 E 25 E 35 E 45 E 65 E 75 E 85 E 95	up to	50 75 150 300 450 600 800 1200 2000	Ampere	capacity " " " " " " " " " " " " "		17.20 19.80 29.30 41.40 54.30 71.80 118.30
Ronghheien Roughings Roughish Roughlegged Roughness Roughriess Roughrider Ronghsenf	20319 20320 20321 20322 20323 20324 20325 20326	E 15 E 25 E 35 E 45 E 65 E 75 E 85 E 95	up to " " " " " ree P	50 75 150 300 450 600 800 1200 2000	Ampere	capacity		17.20 19.80 29.30 41.40 54.30 71.80 118.30 182.60
Ronghheien Ronghings Ronghlegged Ronghlegged Ronghness Ronghrider Ronghsenf	20319 20320 20321 20322 20323 20324 20325 20326	E 15 E 25 E 35 E 45 E 65 E 75 E 85 E 95	up to " " " " " ree P	50 75 150 300 450 600 800 1200 2000	Ampere " " " " " " Double	capacity " " " " " Throw.		17.20 19.80 29.30 41.40 54.30 71.80 118.30 182.60
Ronghheien Roughings Roughlegged Roughly Roughness Roughrider Ronghsenf Ronghstod Roughstod	20319 20320 20321 20322 20323 20324 20325 20326	E 15 E 25 E 35 E 45 E 65 E 75 E 85 E 95 Th	up to " " " " ree P	50 75 150 300 450 600 800 1200 2000	Ampere	capacity "" "" "" "" Throw. capacity		17.20 19.80 29.30 41.40 54.30 71.80 118.30 182.60
Roughings Roughings Roughish Roughlegged Roughness Roughrider Ronghseuf Roughstud Roughstud Roughstud Roughstud Roughstung	20319 20320 20321 20322 20323 20324 20325 20326	E 15 E 25 E 35 E 45 E 65 E 75 E 85 E 95 Th E 16 E 26 E 36	up to " " " " " ree P	50 75 150 300 450 600 800 1200 2000 ole, 50 75 150	Ampere "" "" " Double Ampere ""	capacity " " " " " " Throw. capacity "		17.20 19.80 29.30 41.40 54.30 71.80 118.30 182.60
Roughheen Roughings Roughly Roughness Roughness Roughrider Roughscuff Roughstuff Roughstuff Roughstuff Rought	20319 20320 20321 20322 20323 20324 20325 20326	E 15 E 25 E 35 E 45 E 65 E 75 E 85 E 95 Th E 16 E 26 E 36 E 36 E 36	up to " " " " " " " " " " " " " " " " " " "	50 75 150 300 450 600 800 1200 2000 eole, 50 75 150 300	Ampere " " " " " " Double Ampere " "	capacity "" "" "" Throw. capacity ""		17.20 19.80 29.30 41.40 54.30 118.30 118.30 182.60
Roughings Roughings Roughish Roughlegged Roughness Roughrider Roughscoff Roughshod Roughstring Rought Rought Roughwork Rough	20319 20320 20321 20322 20323 20324 20325 20326	E 15 E 25 E 35 E 45 E 65 E 75 E 85 E 95 Th E 16 E 26 E 36 E 36	up to " " " " ree P up to " "	50 75 150 300 450 600 800 1200 2000 ole, 50 75 150 300 450	Ampere " " " " " " " " Double Ampere " " "	capacity " " " " " " " Throw. capacity " "		17:20 19:80 29:30 41:40 54:30 71:80 118:30 182:60 16:80 21:80 28:40 38:20 54:60
Roughheen Roughings Roughish Roughlegged Roughly Roughrees Roughrider Roughseuf Roughstod Roughstring Rougher Rougheork Rough	20319 20320 20321 20322 20323 20324 20325 20326 20327 *20328 20329 29330 20331 20332	E 15 E 25 E 35 E 45 E 55 E 75 E 85 E 95 Th E 16 E 26 E 36 E 46 E 56 E 56 E 56 E 56 E 56 E 56 E 5	up to	50 75 150 300 450 600 800 1200 2000 ole, 50 75 150 300 450 600	Ampere	capacity "" "" "" Throw. capacity ""		17.20 19.80 29.30 41.40 54.30 71.80 118.30 182.60 16.80 21.80 28.40 38.20 71.50
Roughheen Roughings Roughish Roughlegged Roughness Roughrider Roughscuff Roughshod Roughstring Rought Rougherk Roughark	20319 20320 20321 20322 20323 20324 20325 20326 20327 *20328 20329 29330 20331 20332 20333	E 15 E 25 E 35 E 45 E 65 E 75 E 85 E 95 Th E 16 E 26 E 26 E 26 E 26 E 26 E 26 E 26 E 2	up to " " " " " " " " " " " " " " " " " " "	50 75 150 300 450 600 800 1200 2000 ole, 50 75 150 300 450 600 800 800 800 800 800 800 800 800 80	Ampere "" "" Double Ampere "" "" "" Ampere "" "" "" "" "" Ampere	capacity "" "" "" Throw. capacity "" "" "" "" "" "" "" "" ""		17.20 19.80 29.30 41.40 54.30 71.80 118.30 182.60 16.80 21.80 28.40 38.20 54.60 97.70
Roughheen Roughings Roughish Roughlegged Roughly Roughrees Roughrider Roughseuf Roughstod Roughstring Rougher Rougheork Rough	20319 20320 20321 20322 20323 20324 20325 20326 20327 *20328 20329 29330 20331 20332	E 15 E 25 E 35 E 45 E 55 E 75 E 85 E 95 Th E 16 E 26 E 36 E 46 E 56 E 56 E 56 E 56 E 56 E 56 E 5	up to	50 75 150 300 450 600 800 1200 2000 ole, 50 75 150 300 450 600	Ampere	capacity "" "" "" Throw. capacity "" "" "" "" "" ""		17.20 19.80 29.30 41.40 54.30 71.80 118.30 182.60 16.80 21.80 28.40 38.20 71.50

Western Electric Quick Break Knife Switch.

Type Q.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.

The Type Q is a Quick Break Knife Switch with essentially the same features as Type E, with the addition of the Quick Break Spring. This Switch is especially approved by the Underwriters for an entrance or service switch for motor work, constant potential are or incandescent lighting as well as for switchboard work. The Switch is listed, with the exception of one size, with back connections unmounted. The Q Switch mounted with front connections on slate will be furnished at an advance of 20 per cent, over the price of the unmounted switches.



No. 20366.

Double Pole, Single Throw.

Code Word.	List N	lo.					List Price
Rounce	20336	Q 23	up to	75	Ampere	capacity	 . 11.40
Rounceval	20337	Q 33	44	150	44	"	 . 15.60
Round	20338	Q 43	66	300	44	66	 . 22.60
Roundabout	20339	Q 53	66	450	66	46	 . 31.50
Roundback	20340	Q 63	46	600	44	66	 . 45.20
Roundel	20341	Q 73	44	800	44	66	 . 68.00

Three Pole, Single Throw.

Roundelay	20342	Q 25	up to	75	Ampere	capacity	 17.20
Rounder	20343	Q 35	66	150	44	44	 23.10
Roundhead	30344	Q 45	66	300	44	16	 33.00
Roundhouse	20345	Q 55	46	450	44	44	 47.40
Rounding	20346	Q 65	44	600	44	44	 67.90
Roundish	20347	Q 75	44	800	"	44	 98.10





No. 20351.

Two, Pole, Single Throw, 220 Volts.

Roundlet	20348	Q 03 up to	25 Ampere	capacity,	unmounted	2.90
Roundly	20349	Q 03 "	25 "	"	mounted	3.30

Two Pole, Single Throw, 500 Volts.

Roundness	20350	Q 03 v	ip to	25 /	Ampere	capacity,	unmounted	3.00
Roundridge				25	44		mounted	3.40

L. & S. Knife Switches.

Double Throw Without Fuse.



		E POLE.	DOUBL	LE POLE. TRIPL		POLE.	
Amper	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	Amperes
30 40 60 80 100	0 6.75 9.75 0 12.00 15.25 0 20.00 0 28.00	5.00 8.50 12.25 15.00 19.00 25.00 35.00 50.00	6.75 11.25 16.00 20.00 25.50 33.50 46.50 66.50	8.50 14.00 20.00 25.00 32.00 42.00 58.00 83.00	10.75 18.00 25.50 31.50 40.00 52.50 73.75 105.00	13.50 22.50 32.00 39.50 50.00 65.75 92.25 131.25	50 100 200 300 400 600 800 1000
200					100.00	101.20	1000

Double Throw With Fuse.

	SINGL	E POLE.	DOUBLE	E POLE.	TRIPLE	POLE.	
Amperes.	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	Ampere
50	5.00	6.25	8.50	10.75	13.50	17.00	50
100	8.50	10.75	14.00	17.50	22.50	28.25	100
200	12.25	15.25	20.00	25.00	32.00	40.00	200
300	15.00	18.75	25.00	31.25	39.50	49.50	300
400	19.00	23.75	32.00	40.00	50,00.	62.50	400
600	25.00	31.25	42.00	52.50	65.75	82.25	600
800	35.00	43.75	58.00	72.56	92.25	115.25	800
1000	50.00	62.50	83.00	103.75	131.25	164.00	1000

 $500\text{-}\mathrm{volt}$ switches, except D. T. Fused, add 20 per cent $-500\text{-}\mathrm{volt}$ switche Double Throw Fused, add 40 per cent -

Single Throw Without Fuse.

	SINGL	E POLE.	DOUBLE	POLE.	TRIPLE	POLE.	
Amperes.	Plain.	Pol.	Plain.	Pol.	Ptain.	Pol.	Amperes
50 100	3.00	3.75 6.25	5.00 8.50	6.50 10.50	8.00 13.50	10.00	50 100
200	7.25	9.00	12.00 15.00	15.00 18.75	19.00 23.50	23.75 29.50	-200 300
300 400	9.00	11:25	19.00	23.75	30.00	37.50	400 600
600 800 1000	15.00 21.00 30.00	18.75 26.25 37.50	25.00 35.00 .50.00	31.25 43.75 62:50	39.50 55.25 78.75	49.50 69.00 98.50	800 1000

Single Throw With Fuse.

	SINGL	E POLE.	DOUBLE	POLE.	TRIPLE	Amperes	
Amperes.	Plain.	Pol.	Plain	Pol.	Plain.	Pol	Ampere
50	3.75	4.75	6.25	8.00	10.00	12.50	50
100	6.25	7.75	10.50	13.00	17.00	21.25	100
200	9.00	11.25	15.00	18.75	23.75	29.75	200
300	11.25	14.00	18.75	23.50	29.50	37.00	300
400	14.50	18:00	23.75	29.75	37.50	47.00	400
600	18.75	23.50	31.25	39.00	49.50	62.00	600
800	26.25	32.75	43.75	54.75	69.00	86.25	800
1000	37.50	47.00	62.50	78.00	98.50	123:00	1000

Front connected switches unmounted deduct 10 per cent. Back connected switches unmounted same as list. Back connected switcher mounted add 10 per cent.

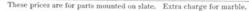
Style "H" Station Switches for Back Connections.

In this Switch the arm is made sectional as the illustration shows. The blade is of hard drawn copper, securely held in the slotted tube by the end plugs and bushings.





Capacity						I FUSE		UT FUSE INALS.
Amperes					Polished.	Plain.	Polished.	Plain.
25	Single I	ole	, Single T	hrew,	\$ 2.60	\$ 2.35	\$ 2:20	\$ 2.00
25	Single	66	Double	66	4.00	3.60	3.20	2.8
25	Double	66	Single	"	4.75	4.25	3.80	3.40
25	Double	66	Double	66	8.50	7.65	6.80	6.10
25 25 25	Triple	66	Single	"	6.00	5.40	4.80	4.30
25	Triple	66	Double	**	10.70	9.60	8.50	7.6
50	Single	44	Single	"	5.50	5.00	4.40	4.0
50	Single	66	Double	66	8.50	7.65	6.80	6.1
50	Double	6.6	Single	66	10.00	9.00	8.00	7.2
50	Double	66	Double	66	18.00	16,20	14.40	12.0
50	Triple	66	Single	**	12.70	11.40	10.00	9.0
50	Triple	44	Double	"	22.50	19.25	18.00	16.2
75	Single	44	Single	**	7.10	6.40	5.60	5.0
75	Single	"	Double	"	11.00	9.90	8.80	7.9
75	Double	61	Single	66	13.00	11.70	10.40	9.3
75	Double	66	Double	66	23.40	21.00	18.70	16.8
75	Triple	66	Single	66	16.50	14.80	13.20	11.8
75	Triple	66	Double	"	29.00	26.00	25.20	22.6
100	Single	66	Single	"	8.25	7.40	6.60	6.0
100	Single	"	Double	**	12.75	11.45	10.40	9.3
100	Double	44	Single	"	15.00	13.50	12.00	10.8
100	Double	66	Double	66	27.00	24,30	21.60	19.4
100	Triple	66	Single	66	19.00	17.00	15.20	13.5
100	Triple	66	Double	66	33.75	30.30	27.00	24.2
150	Single	66	Single.	66	9.00	8.00	7.20	6.5
150	Single	66	Double	**	14.00	12.60	11.20	10.0
150	Double	66	Single	"	16.50	14.80	13.20	11.8
150	Double	44	Double	66	29.70	26.70	25.75	23.0
150	Triple	66	Single	66	20.90	17.80	16.75	15.0
150	Triple	66	Double	66	37.00	33.30	29.60	26.5
200	Single	66	Single	66	11.00	9.90	8.80	8.0
200	Single	66	Double	**	17.00	15.30	13.60	12.2
200	Double	66	Single	"	20.00	18.00	16.00	14.4
200	Double	66	Double	"	36.20	32.50	28.90	26.0
200	Triple	"	Single	44	25.30	22.75	20.25	18.0
200	Triple	44	Double	44	54.00	48.60	43.20	38.8
300	Single	44	Single	44	15.40	13.80	12.30	11,0
300	Single	4.	Double	44	23.80	21.40	19.00	17,0
300	Double	66	Single	44	28.00	25.20	22.40	20.0
300	Double	66	Double	44	50.00	45.00	40.00	36.0
300	Triple	44	Single	44	35.50	32.00	28.40	25.50
300	Triple	44.	Double	44	63.00	56.70	50.40	45.3
400	Single	"	Single	44	18.70	16.80	15.00	13.5
400	Single	44	Double	44	28.90	26,00	23.10	20.50
400	Double		Single		34.00	30.60	27,20	24.40
400	Double	-66	Double	66	61.20	55.00	48.90	44.0
400	Triple		Single		43.00	38.70	34.40	30.80
400	Triple	66	Double	44	80,00	72.00	64.00	57.60
600	Single		Single		25.30	22.75	20.20	18.00
600	Single	66	Double.	44	39.00	35.00	31.20	28.00
600	Double	"	Single	66	46.00	41.40	36.80	33.00
600	Double	"	Double	66	82.00	73.80	65.60	59.00
600	Triple -	44	Single	66	68,30	61.50	54.60	49.00
600	Triple	44	Double	66	98.00	88.20	78.40	70.50
1000	Single	"	Single	44	40.00	36.00	32,00	28.80
1000 1000	Single	"	Double	44	63.00	56.70	50.00	45.00
1000	Double	"	Single	44	74.00	66.60	59.20	53.20
1000	Double	"	Double	44	132.00	118.00	105.60	95.00
1000	Triple Triple	"	Single Double	46	93.00 166.00	83.00 150.00	74.40 132.00	67.00 118.00





Style "H" Station Switch for Back Connections.



Cut showing mechanical connection of arm.

Style "H" Station Switches for Front Connections.



Style "H" Station Switch for Front Connections.



Cut showing mechanical connection of arm.

From 25 to 1000 Amperes.

PRICE LIST.

city						I FUSE IINALS.		UT FUSE INALS.
eres					Polished.	Plain.	Polished.	Plain.
25	Single F	ole.	Single T	Throw,	\$ 2.75	\$ 2.50	\$ 2.30	\$ 2.10
25	Single	66	Double	**	4.20	3.80	3.35	3.00
25	Double	66	Single	"	5.00	4.45	4.00	3.60
25	Double	66	Double	66	8.90	8.00	7.15	6.45
25 25	Triple	66	Single	44	6.30	5.65	5.00	4.50
25	Triple	66	Double	66	11.20 5.75	10.00	8.80	8.00
50	Single	66	Single	66	5.75	5.25	4.60	4.10
50	Single	66	Double	66	8,90	8.00	7.20	6.50
50	Double	66	Single	66	10.50	9.50	8.40	7.50
50	Double	66	Double	66	19.00	17.00	15.20	13.20
50	Triple	66	Single	66	13.30	12.00	10,60	9.50
50	Triple	66	Double	66	23.50	20.00	18.80	17.00
75		66	Single	- 66	7.40	6.75	5.90	5.30
75	Single	66		44	11.50	10.20	9.20	8.23
75	Single	64	Double	66		12.25	10.50	9.50
	Double	66	Single	66	13.60	22.00		17.70
75	Double	44	Double	66	24.60		19.60	17.73
75	Triple	66	Single	"	17.50	15.50	14.00	12.60
75	Triple		Double	"	30.50	27.30	24.40	22.00
00	Single	66	Single		8.45	7.75	6.75	6.10
00	Single	44	Double	44	13.40	12.00	10.72	9.70
00	Double	44	Single	44	15.75	14.25	12.60	11.40
00	Double	66	Double	66	28.25	25,50	22.60	20.40
00.	Triple	44	Single	66	20,00	17.85	16.00	14.40
00	Triple	66	Double	44	34.25	31.80	27.40	24.70
50	Single	44	Single	66	9.50	8.40	7.65	6.90
50	Single	44	Double	"	14.75	13.25	11.80	10.70
50	Double	66	Single	66	17.30	15,50	13.80	12.50
50	Double	66	Double	66	31.20	28.00	25.00	22.50
50	Triple	66	Single	66	22.00	19.75	17.60	15.90
50	Triple	66	Double	66	38,85	35.00	31.00	28.00
00	Single	66	Single	66	11.50	10,40	9,20	8.30
00	Single	66	Double	66	17.80	16,00	14,00	12.60
00	Double	66	Single	66	21.00	19.00	16,80	15.20
00	Double	"	Double	66	38.00	35.20	30,00	27.00
00	Triple	66	Single	66	26.50	24.00	21.25	19.00
00	Triple	44	Double	66	56.50	50,00	45.00	40.00
00	Single	66	Single	66	16.20	14.60	13.00	11.70
00	Single	6.	Double	66	25.00	22.50	20.00	18.00
00	Double	66	Single	66	29.40	26,50	23.50	21.0
00	Double	44	Double	66	52.50	47.25	42.00	27 7
00	Triple	44	Single	66	37,25	33,50	29.80	37.78 27.00
00	Triple	66	Double	66	66.50	63,20	53,00	48.00
00		66		66	19.60	17.60	15.75	14.2
	Single	66	Single	66			94.90	91.00
00	Single	66	Double	66	30.25	27.00	24.20	21.80
00	Double	66	Single	66	35.70	32.20	28.50	26.00
00	Double	44	Double	66	64.00	57.00	51.00	46.00
00	Triple	66	Single	"	45.00	40.00	36.40	32.8
00	Triple	44	Double	6.	84.00	75.00	67.00	60.00
00	Single.	44	Single	44	26.50	23.90	21.25	19.00
00	Single	44	Double	"	40.80	36.50	32.50	29.2
00	Double		Single		48.30	43.50	38.50	34.00
00	Double	44	Double	66	86.00	78.00	68.75	61.50
00	Triple	44	Single	- 66	71.25	64,00	57.00	51.50
00	Triple	66	Double	44	102.00	92.00	80.00	72.00
00	Single	66	Single	44	42.00	37.20	33.00	30.00
00	Single	66	Double	66	66.00	60.00	39.00	35.00
00	Double	66	Single	44	77.75	70.00	62.00	55.00
00.	Double	66	Double	44	138.00	124,00	110.00	100.00
00	Triple	66	Single	44	97.00	87.50	77.00	70.00
00	Triple	66	Double	44	174.00	156.50	132.00	120.00

These prices are for parts mounted on slate. Extra charge for marble.

Station Switches.

Single Pole, Single Throw.



No. 8265.

		Sin	gie P	oie,	Sing	le Inro	w.				
Code Word.	List No.										Price.
Exemplify	8265	15		res,		no fuse,					
Exemplifying	8266	25			4.4	**	**				3 00
Exempt	8267	50	. 6		4.4	4.6					3.50
Exempted	8268	75	,51		**	64				 *	4.25
Exempting	8269	100	**		**	**	" .			 !	5.50
Exercise	8270	200			**	**	"			 	7.00
Exercised	8271	300	**		**	**	**			 1	8.75
Exercising	8272	400	**		**	**	**			 1	3.00
Exert ,	8273	,600	**			**	**			 1	8.25
Exerted	8274	800			4.4	**	"			 2	1.75
Exertment	8275	1000			**	16	**			 2	4.50
Exhausting	8287	15	- 64		polish	ed, no fe	ise, ea	ch.		 :	2.00
Exhaustion	8288	25	**		**	11				 	3.50
Exhaustive	8289	50	4.6		14	**		٠		 4	1.25
Exhaustment	8290	75	4.		+4	4.6		٠.		 !	5.50
Exhibit	8291	100	• •		* 4	**		٠		:	7.00
Exhibited.	8292	200	**			**		٠ .		8	3.75
Exhibiting	8293	300	**		4.4	ii	- 5			1	1.00
Exhibition	8294	400	**		**	**				 1	5.60
Exhibitive	8295	600	**		4+	**					1.90
Exhilarate	8296	800	**		**	**				 2	6.10
Exhilarated	8297	1000	**		**	4.6		٠		 2	9.40
Exhort	8276	15	44.		plain.	with fu	se. ·	٠		 :	2.50
Exhorted	8277	25	**		**	**		٠		 :	3.75
Exhorting	8278	50	4.6		**	**				 4	1.25
Exhume	8279	75	4.6		4.4	* 6		٠		 . !	5.50
Exhuming	8280	100			44	10		٠			7 00
Exile	8281	200			66	**					8.50
Exilement.	8282	300	**		4.4	**				 10	0.50
Exiling	8283	400			4.6	**					6.00
Exist	8284	600	**		44	4.6					2.00
Existence	8285	800	**		4.6	**		4			6.00
Existent	8286	1000	**		4.4	**					9.75
Existing	8298	15	**		polish	ed, with	fuse,	eacl	h	 :	3.00
Exit	8299	25	**				**			 	1.50
Exode	8300	50	**		**		4.6	* 5			5.25
Exodus	8301	75			**						5 50
Exonerate	8302	100	**		**		14.				3.50
Exonerated	8303	200	4.6		**	100	11	4.4			0.50
Exotic	8304	300	**		4.4	9	0.0	**			3.50
Expand	8305	400	**		+ 4		4			 . 1	9.20
Expanded	8306	600	**		44			-11		 . 2	6.40
Expanding.	8307	800	**		**			4.6		 . 3	1.20
Expanse	8308	1000	**		**		14	+4			5.70

No. 8000.

		Sin	gle Pole,	Doub	le Thre	w.		
Expansion	8000	25	Amperes,	plain,	no fuse	, each	 	. 4.00
Repansive	1008	50	**	64	64		 	. 4.75
Expatiate	8002	75	1.6	0.6	4.4	4.	 	. 5.75
Expectant	8003	100			4.4			
Expectorate	8004	200	**		**			
Expedient	8005	300	**	4.4	64			
Expedite	8006	400	**	* 1	**			
Ezekiel /	8007	600		4.4	**			
Ezra	8008	800	**	**	**			
Exertion	8009	1000	**	**	**			

Station Switches—(Continued).

Singlè	Pole,	Double	Throw.
--------	-------	--------	--------

Code Word.	List No.						List Price
Encage	8020						\$4.75
Encaged [.]	802 I	50	**	**	44		5.75
Encaging	8022	75	**	**	• •	"	7.00
Eucamp	8023	100	41	"			8.75
Enchain	8024	200	44	**	44	**	11,00
Enchained.	8025	300	**	**	**	**	15.00
Enchairing	8026	400		**	**		24.90
Enchainment	8027	600	**	**			35.10
Enchant	8028	800	4.6	14	**		42.80
Enchanted	8029	1000	**	* *	44	14	48.60
Encounter .	8010	25	**	plain, v	vith fuse,	each	4.75
Encountering	801 F	50	40	16	***	"	5.75
Encourage	8012	75	**	* *	4.5		7.00
Encouraging	8013	100	**		**		8.75
Encradle	8014	200	**	**		"	11.00
Encrimson	8015	300	**	4.6			14.50
Encroach	8016	400	**	**	• •	"	26.25
Encroacher	8017	600	**	**	**	"	36.00
Encroaching	8018	800	**	4.6			42.75
Encroachment	8019	1000		**	**		48.25
Enchanting	8030	25	**	polishee	l, with fu	ise, cach	5.50
Enchantment	8031	50	**			"	6.75
Enchase	8032	75	44	- 13	+4	**	8.25
Enchased	8033	100	**	**	**		10.25
Enchasing	8034	200	"	**	**	"	13.00
Encircle	8035	300	> 14	44	**		17.00
Encompass	8036	400	~13-	**	**	*	31.50
Encompassed	8037	600	**	**	41		43.20
Encompassing		800	**	14	4.6	"	51.30
Encore	8039	1000	14	**	44		, 58.00
-							

Made with back connections for ten per cent additional to list price.

Double Pole, Single Throw.

Eucumber	8040	15	Amperes,	plain,	no fuse,	Cael:	۱				2.25
Encumbering	8041	25	**	- (4	**	44					5.75
Encumbrance	8042	50	**	• •	**	**				٠	7.00
Endamage	8043	75	**	**	**	**					8.75
Endanger	8044	100	14	14	**					1	1.00
Endear	8045	200	• •	**	**						4.50
Endearing	8046	300	. 19	10	**	16		<i>.</i> .		1	8.00
Endearment	8047	400	6.4	**		4.				:	29.00
Endeavor	8048	600	44		44	• •				;	39.25
Endeavoring	8049	800	***	**	••	4.				4	45.75
Endless	8050	1000	41	**							52.75
Endlessly	8062	15	**	polish	ed, no fu	se, e	aclı				3.25
Endlessness	8063	25	4.8	••	41		**				7.00
Endom	8064	50	44		**		4				8.25
Endower	8065	75		**	**		••		<i>.</i>	, I	0.50
Endowing	8066	100	44								3.50
Endownent	8067	200	**		**					1	7.50
Endurance	8068	300		**	44		• •			2	4.00
Endure	8069	400	••	**	**		٠.		. 	3	4.80
Endured	8070	600		**	+4		٠.			4	17.10
Enduring.	807 E	800	**	**			"			,5	4.90
Endwise	8072	1000	**	**	44 -		••			6	3.30



No. 8051.

Station Switches—(Continued).

		Do	uble Pole	. Single	Thro	w.
Code Word.	List No.					List Price.
Enemy	8051	15	Amperes.	plain, wi	th fuse	, each\$3.00
Energy	8052	25	1,1	**	6.	" 7.25
Enervate	8053	50	64	4.6	6.4	8.75
Enervated	8054	75	**	6.6	4.5	11.00
Enervating	8055	100	11	**	6.	
Enervation	8056	200	44	4.6	4.4	
Enfamish	8057	300	**	**		22.00
Enfeeble	8058	400	**	+4	**	34.25
Enfeebled	8059	600	**	4.4		
Enfeeblement	8060	800		**		
Enfetter	8061	1000	11	**		
Engender	8073	15	1.1	polished,	with t	fuse, each 4.25
Engendered	8074	25	"	**	64	8.75
Engendering	8075	50	**	6.0		
Engild	8076	75	**	**	4.6	12,75
Engineering	8077	100	**	**	**	
Ettginery	8078	200	**	**	+4	22.00
Engird	8079	300	**	**	**	29.00
English	8080	400	**	**		41.10
Engloom	1808	600	**	**	**	54.30
Engorge	8082	800	64			
Engorged	8083	1000	**	- 11	* *	

Made with or without fuse, as desired

No. 8124.

Three Pole, Single Throw.

		111	ree Poie,	Sing	ie inro	w.		
Enormous	8124	15	Amperes,	plain,				3.00
Enrage	8125	25	**	3.5	**	**		8.25
Enraged	8126	50	**	+ 4	**			10.50
Enrank	8127	75	**	**	+4			13.00
Euranked	8128	100	**	* *	**		,	16.50
. Enranking	8129	200	**	**	**	** .		21.00
Enrapt	8130	300	**		4.4			27.00
Eurich	8131	400	**		**			45.50
Enriched	8132	600	74.6	**	4.4			60.25
Enriding	8133	800	**		4.4	** .		70.00
Enrichment	8134	1000	**	4.6	4.6	**		80.75
Enlisted	8146	15	**	polish	ed, no fr	ise, eac	h	4.00
Enlisting	8147	25	1.1	**	16	61		10.50
Enlistment	8148	50	**	. **	1.4	4.4		12.25
Enliven	8149	75	*1			**		15.75
Enlivened	8150	100	**	4.9	**	1.6		20.00
Enlivening	8151	200	**		- 11	7.		26.50
Enmesh	8152	300			4.1	+ 4		35.00
Enmity	8153	400	- 11	7.5	**	**		54.60
Ennoble	8154	600	**	+ 4	11			72.30
Enoch	8155	800	++	+ 6	+4	4.4		84.00
Enormity	8156	1000	14	4.6	- 00			96.90
Enkindle	8135	15	**	plain,	with fus	c, each		3.75
Enkindled	8136	25			**	. 6		9.50
Enkindling	8137	50		4.4	4.5	**		13.25
Enlargement	8138	175	**	**		**		16.00
Enlight	8139	100	**		**.	**		20.00
Enlighten	8140	200	**	**	61			26.00
Enlightened	8141	300	**	4.4	4.1	**		35.00
Enlightening	8142	400	**	6.6	4.4	**		52.75
Enlightment	8143	600	**	4.1		**		70.25
Enlink	8144	800		64	***	**		81.25
Enlist	8145	1000	**	**	**	**		92.50

Station Switches-(Continued).

Three Pole, Single Throw.

Code Word.	List No.					Li	st Price.
Enjoin	8157	15	Amperes,	polished,	with fuse,	each	\$5.00
Enjoined	8158	25	11	11	. 4		13.25
Enjoining	8159	50	3.5	16			15.50
Enjoinment	8160	75	**	1.1			19.00
Enjoy	8161	100		4.6		**	24.25
Enjoyable	8162	200		4.4			33.00
Exerting	8163	300	**	**	**		43.00
Enjoyed	8164	400	11	4.4	**		63.30
Enjoying	8165	600	**	4.4	**		84.30
Enjoyment	8166	800	11	4.6			97.80
Enjail	8167	1000	**	44	**		111.00

Double Pole, Double Throw.



No. 8084.

			ioic i oic	, Double				
Enhance	8084	25	Amperes,	plain, n	o fuse.	each.		7.75
Enhanced	8085	50	44	**	**	4.4		9.50
Enhancement	8086	75	**	**	**	4.4		11.75
Enhancer	8087	100	**	**		**		14.75
Enhancing	8088	200	11	4.6	4.6	4.6		18.75
Enharbor	8089	300	4.4	**	**	**		25.00
Enharden	8090	400	**	**	**	**		43.50
Enigma	8091	600		**	4.4	**		60.75
Enigmatic	8092	800	4.1	4.6	+ 6	1.4		71.75
Enigmatize	8093	1000	**	**	**	**		82.50
Engraving	8104	25	**	polished			h	9.50
Engross	8105	50	**	11	4.4	11		11.00
Engrossed	8106	75	**	1.6	4.6	**		14.00
Engrossing	8107	100		4.6	**	**		17.50
Engrossment	8108	200		6.6				23.50
Enguard	8109	300	**	4.6		**		32.00
Engulf	8110	400	**	**	**	11		52.20
Engulfed	8111	600		**	**	+ 6		72.90
Engulfing	8112	800		4.4	4.4	4.0		86.10
Engulfment	8113	1000		**		**	*******	99.00
Engorgement	8094	25					h	10.50
Engorging	8095			**	**	"		13.00
Engrail	8096	75		**				
Engrain	8097	100				"		
Engrained	8098	200		**		"		25.50
Engrapple	80,99	300		111				
Engrave	8100	400			**	**		55.25
Engraved	1018	600		**	**			74.25
Engraven	8102	800		**				87.25
Engravement	8103	1000				. "		98.50
Enring	8114	25			l, with	fuse,		13.00
Enrobe	8115	50						15.25
Enrobing	8116	75		11				18.75
Enroll	8117	100						23.50
Enrolled	8118	200						31.00
Enrollment	8119	300						42.00 66.30
Envoot	8120	400		14				89.10
Enrooted	8121	600						104.70
Enrooting	8122	800		14				118.20
Enseal	8123	1000) "					110.20



No. 8168.

Station Switches—(Continued).

Three Pole, Double 7	hrow.
----------------------	-------

		Inte	e Pole,	Doub	ie imi	w.	
Code Word.	List No.						List Price.
Enshield	8168	25					\$11.75
Enshrine	8169	50	1.6	**	**	* *	14.00
Enshroud	8170	75	**	**	**		17.50
Ensign	8171	100	**	+ 6	4.6	**	22.50
Ensigney	8172	200	4.6	**	4.6		28.00
Enslave	8173	300	**				36.00
Enslaving	8174	400	**	4.	4.4	"	68.00
Ensue	8175	600	44	**	11	44	93.50
Ensuing	8176	800	**	4.4	**		110.00
Entail	8177	1000	4.6	**	4.6	**	128.25
Enticingly	8188	25	4.4	polish	ed, no fu	ise, eac	ch 14.00
Entireness	8189	50	**	**	44		16.50
Entitle	8190	75	**	**		4.0	21.00
Entoil	8191	100	**	**	+4	4.4	26.75
Entrance	8192	200	44	**	44	**	35.00
Entranced	8193	300	+ 6	4.6	+ 4	4.4	47.00
Entrap	8194	400	4.6	4.4	**		81.60
Entreat	8195	600	4.4	64	4.4	- 11	
Entreated	.8196	800	6.6	.64		4.	
Entreating	8197	1000	4.4	4.4	4.4		154.00
Entailed .	8178	25	**	plain,	with fus	e, each	16.00
Entailing	8179	50	***	**	**	**	19.25
Entailment	8180	75	4.6		4.6	4.6	23.75
Entangle .	.8181	100	. 11	4.4	11	**	29.50
Entangled	8182	200	**	+ 4	44	+ 4	36 75
Entangling	8183	300	+4	+4		1.0	48.00
Entering	8184	400	- 11		6.1	1.6	84.00
Enterprise	8185	600	+ 4		4.6	3.7	123.25
Enterpaser	8186	800	+ 4	45	11	**	132.75
Enterprising	8187	1000	**	41	4.6	4+	150.00
Entertain	8198	25	+4	polish	ed, with	fuse, e	ach 19.25
Enthrone	8199	50		**			" 22.75
Enthroned	8200	75	**	4.4	4.0		28.00
Enthronemet	8201	100	**			4	" 35.50
Enthroning	8202	200		11			" 46.00
Enthusiasm	8203	300	**	**			60.00
Enthusiast	8204	400	16	**			100.80
Entice	8205	600	14	**			157.90
Enticement	8206	800	4.6	14			159.30
Enticing	8207	1000		**			180.00
	0=01						

Constructed on the same general principles as our other Station Switches; field open or closed by a positive spring-lock.



No. 8253.

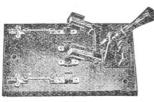
No. 8257.

Executive

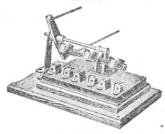
Hill Switch.

Single Pale.

Excuser	8253	25	Amperes,	cacl	h.										 	2.00
Excusing	8254	50	44	4.4					 	. ,		. ,			 	2.75
Execute	8255	100	**	4.4										 		4.00
Executed	8256	200	44	* *					 						٠.	6.00
			Dou	ble	Po	lo										
Executing	8257	25	Amperes,	each					 		 					3.00
Execution	8258	50	**	**										 		4.25
Executioner	8259	100		**					 		 					6.00



No. 8261.



No. 8251.



No. 8309.

Dynamo Switch.

With this Switch and simple bus bar connections a very neat and convenient switchboard for a good-sized isolated plant can be made at a very small expense.

Code Word.	List No.		Amperes,	each											Pri		
Executory	8262																
Executress	8263	100	66	66											9.	50	į
Exemplary	8264	200	66	66											13.	00	į

Elevator Switch.

Excusubly	8251	3	Pole,	100 2	mperes,	each	 15.00
Excuse	8252	2	66	100	66	"	 12.00

Single Pole Blade Switches.

MOUNTED ON MARBLEIZED SLATE BASES.

With Safety Catch Holders.

Mentor	8309	Capacity	in Amperes,	up t	0, 25,	plain, e	ac	h	.99
Mercenary	8311	44	66	44	25,	polished			1.20
Mercer	8312	66	66	44	50,	plain	44		2.97
Merchant	8314	44	44	44	50,	polished	16		-3.57
Mercilesx	8316	44	64	66	100,	plain	66		3.63
Mercury	8317	66	66	44	100,	polished	"		4.26
Rockmeny	20118	44	66	66	200,	plain	66		4.95
Rockcod	20119	64	66	44	200,	polished	66		5.94
Mercy	8318	44	64	44	300,	plain	66		5.46
Merge	8320	**	**	-64	300,	polished	44		6.54
Merged	8321	64	44	44	400,	plain	"		5.94
Meridian	8323	66	44	66	400,	polished	- 44		7.14
Merino	8324	66	66	44	600,	plain	66		8.58
Merited	8326	66	44	66	600,	polished	66		10.29

Without Safety Catch Holders.

Meddler	8327	Capacity in	Amperes	up t	o 25, plain.	eac	h	.90
Meditate	8329	**	-46	44	25, polishe	d "		1.08
Rockcourt	20120	44	44	.44	50, plain	44		2.73
Rockcork	20121	44	66	66	50, polishe	d "		3.27
Meditating	8330	66	- 66	44	100, plain	66		3.36
Medical	8332	66	66	44	100, polishe	d "		4.05
Medically	8333	66	6.6	66	200, plain	54		4.59
Medicated	8335	66.	66	66	200, polishe	d "		5.52
Milked	8336	66	44		300, plain	66		5.04
Milkmaid	8338	44	44	66	300, polishe	d "		6.06
Milkman	8339	44	66	44	400, plain	64	****	5.49
Milky	8341	44	44	44	400, polishe	d "		6.90
Mill	8342	44	46	44	600, plain	44		7.95
Millet	8344	66	"	34	600, polishe	d "		9.54

List No.

Code Word.

Mindfully

List Price.

" 1800, polished " 28.12

Single Pole Blade Switches—(Continued).

With Safety Catch Holders.



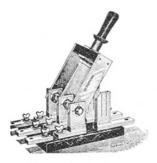
	D.N.G	
No.	8345.	

Rockcress	20122	Capacity	in Amperes	up to 800,	plain	each.	\$ 13.80
Rockdoe	20123	- 44	44	" 800,	polished	1 "	 16.56
Milling	8345	44	44	" 1200,	plain	4 .	 18.15
Mimic	8347	**	- 44	"_1200,	polished	1 "	21.78
Mimical	8348	**	44	" 1800,	plain	"	 25.41
Mince	8350	44	14	" 1800,	polished	" .	 30.49
		Without	Safety Car	tch Holde	rs.		
Rockalay	20124	Capacity	in Amperes	up to 800;	plain,	each.	12.77
Rocker	20125	66	66	" 800,	polished	" .	15.34
Minced	8351	66	44	" 1200,	plain	"	16.79
Mind	8353	64		" 1200,	polished	1 44	 20.16
Minded	8354	66	44	" 1800,	plain	66	 23.50

Double and Triple Pole Blade Switches.

WITH SAFETY CATCH HOLDERS.

Double Pole.



Nos. 8357 and 8375.

Miner	8357	Capacity	in Amperes,	up t	0 25,	plain,	eac	h	1.65
Mingle	8359	44	44	44	25,	polished	111		1.98
Mining	8360	66	64	44	50,	plain	11		3.96
Minister	8362	66	66	66	50,	polished	- 66		4.77
Mink	8363	66	66	44	100,	plain	66		5.94
Minstrel	8365	44	66	44	100,	polished	66		7.14
Rockery	20126	44	**	66	200,	plain	64		7.20
Rocket	20127	44	44	44	200,	polished	"		9.30
Mintage	8366	44	64	44	300,	plain	66		9.00
Minus	8368	44	44	66	300,	polished	"		10.80
Minute	8369	44	44	44	400,	plain	"		10.23
Minuteness	8371	64	44	41	400,	polished	- 66		12.27
Miracle	8372	44	66	44	600,	plain	66		13.86
Mireness	8374	66	44	66	600,	polished	- 66		16.62

Triple Pole.

Mirror	8375	Capacity in	Amperes	up t	o 25, p	olain e	ac	h	2.31
Mirth	8377	"	**	44	25, 1	oolished	66		2.79
Mirthful	8378	44	44	44	50, 1	olain	44		5.28
Misapply	8380	64	44	66	50, 1	oolished	"		6.36
Misbehave	8381	44	66	66	100, 1	olain	44		8.91
Mischance	8383	44	66	66	100, 1	oolished	66		10.71
Rockfish	20128	66	44	44	200, 1	olain	44		11.22
Rockgoat	20129	66	66	44	200, 1	oolished	64		13.47
Mischief	8384	44	44	**	300, 1	olain	44		13.20
Miser	8386	66	44	44	300, 1	oolished	11		15.84
Misery	8387	44	66	44	400, 1	olain	44		15.18
Misfortune	8390	66	66	66	400, 1	polished	44		18.21
Misgire	8391	66	4.6	44	600, 1	olain	66		20.79
Misguide	8393	"	44	44	600, I	oolished			24.96

Double and Triple Pole Blade Switches.

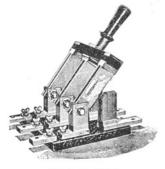
WITHOUT SAFETY CATCH HOLDERS.

Double Pole.

Code Word.	List No						Lis	t Price.
Misguided	8394	Capacity	in Amperes,	up t	o 25, plain,	eacl	1	1.50
Mislup	8396	66	44	66	25, polished	d "		1.80
Misjoin	8397	44	44	44	50, plain	44		3.66
Misjudged	8399	44	44	44	50, polished	d "		4.38
Misjudging	8400	44	44	46	100, plain	64		5.49
Mislead	8402	66	44	44	100, polished	d "		6.60
Rockless	20130	66	*66	44	200, plain	"		7.17
Rockling	20131	44	44	44	200, polished	d "		8.61
Misleader	8403	44	6	66	300, plain	- 66		8.34
Misplace	8405	44	44	66	300, polishee	d "		9.99
Misrule	8406	*66	66	44	400, plain	44		9.48
Missing	8408	66	6.6	66	400, polished	d "		11.37
Mission	8409	. 66	44	66	600, plain	44		12.84
Mist	8411	66	66	44	600, polishe	d "		15.42

Triple Pole.

Mistake	8412	Capacity in	Amperes	up to	25, plain e	acl	h	2.10
Mixtletoe	8414	44	44	44	25, polished	"		2.52
Mistreat	8415	i.	66	44	50, plain	"		4.86
Mistrust	8417	66	44	56	50, polished	66		5.85
Misuse	8418	66	66	44	100, plain	66		8.25
Miter	8420	66	14	44	100, polished	66		9.90
Rockmilk	20132	64	- 44	66	200, plain	66		10.38
Rockmoss	20133	66	64	66	200, polished	66		12.45
Mitigate	8421	61	**	44	300, plain	66		12.21
Mittimus	8423	44	44	66	300, polished	66		14.67
Mix	8424	66	44	66	400, plain	"		14.04
Mixture	8426	44	66	66	400, polished	"		16.86
Moun	8427	64	44	44	600, plain	66		19.14
Moaning	8429	44 "	64	66	600, polished	44		22.98



Nos. 8430 and 8436.

Double and Triple Pole.

WITH SAFETY CATCH HOLDERS.

Double Pole.

Rockoil	20134	Capacity in	Amperes	up te	o 800,	plain, e	eacl	1	23.23
Rockrose	20135	46	44	44	800,	polished	44		27.83
Moat	8430	66	66	66	1200,	plain	44		36.30
Mobbed	8432	44	44	66	1200,	polished			43.56
Mobbing	8433	44	44	66	1800,	plain	"		43.56
Moccasin	8435	45	**	44	1800,	polished	**		52.27

Double and Triple Pole—(Continued).

Triple Pole.

Code Word Rockplant	List No 20136	Capacity in	Amperes	up to	800.	plain,	eac	35.57
Rockruby	20137	"	**	44	800,	polished	66	 42.70
Mock	8436	44	44	66	1200,	plain	66	 58.08
Mocked	8438	66	66	44	1200,	polished	66	 69.70
Mocking	8439	44	44	66	1800,	plain	44	 65.34
Modeled	8441	44	14	66 /	1800,	polished	-	78.4

WITHOUT SAFETY CATCH HOLDERS.

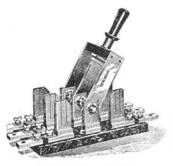
Double Pole.

Rocksalt	20138	Capacity	in Amperes	up to	0 800,	plain	eac	h	21.42
Rockshaft	20139	16				polished			
Modeling	8442	66	44	66	1200,	plain	44		33.59
Mordant	8444	44	66	44	1200,	polished	1 "	* ***	40.33
Morning	8445	44	**	44	1800,	plain	44		40.29
Marnhology	8447	66	44	44	1800.	polished	44		48.34

Triple Pole.

Rochshell	20140	Capacity i	n Amperes,	up to	800,	plain,	each	 32.90
Rocksoap	20141	44	44	**	800,	polished	1 "	 39.47
Morsel	8448	44	66	44	1200,	plain	46	 53:72
Mortality	8450	66	66	66	1200,	polished	1 "	 64.48
Mortur	8451	44	66	66	1800,	plain	66	 60.46
Mortgage	8453	"	66	**	1800,	polished	1 66	 72.53

Double Throw-Single, Double and Triple Pole.



Nos. 8454, 8472 and 8490.

WITH SAFETY CATCH HOLDERS.

Single Pole.

Mortify	8454	Capacity in	Amperes	up to	25,	plain e	ac	h	1.77
Mortise	8456	44	44	44	25,	polished	44		2.13
Mosaic	8457	41	64	44	50,	plain	**		5.28
Moslem	8459	66	46	44	50,	polished	44		6.36
Mossy	8460	44	64	44	100,	plain	44		6.48
Motherly	8462	66	66	66	100,	polished	44		7.80
Rocktar	20142	66	44	66	200,	plain	64		8.82
Rockwood	20143	66	44	44	200,	polished	44		10.56
Motion	8463	44	66	44	300,	plain	44		9.69
Motley	8465	66	44	66	300,	polished			11.64
Mottled	8466	64	66	44	400,	plain	44		10.56
Mound	8468	66	44	44	400,	polished	66		12.69
Mount	8469	44	44	66	600,	plain	**		15.24
Mounting	8471	44	66	66	600,	polished	66		18.30

Double Throw-Single, Double and Triple Pole

-(Continued)

Double Pole.

Code Word	List No							Li	st Price.
Mourn	8472	Capacity in	Amperes,	up to	25,	plain,	each		2.97
Mournful	8474	44	44	44	25,	polished	d "		3.57
Mournfully	8475	**	**	**	50.	plain	44		7.05
Mouse	8477	**	44	"	50,	polished	1 "		8.46
Mouth	8478	44	**	a	100,	plain	44		10.56
Movable	8480	**	**	44	100,	polished	1 "		12.69
Rockwork	20144	**	**	**	200,	plain	66		13.77
Rocky	20145		**	**	200,	polished	1 "		16.53
Movement	8481	46	٠.	64	300.	plain	44		16.02
Mortgaging	8483	44	**	46	300.	polished	1 "		19.20
Modern	8484	**	**	**	400,	plain	44		18.21
Modest	8486	**	44	44	400.	polished	1 "		21.84
Modestly	8487	64	**	44	600.	plain	**		24.66
Lump	8489	44	"			polished	1 4		29.58

Triple Pole.

Modify	8490	Capacity in	Amperes	up to	o 25, plain each 4.14
Module	8492	**	**	"	25, polished " 4.98
Moist	8493	**	"	**	50, plain ", 9.42
Moistening	8495	**	44	66	50, polished " 11.28
Moisture	8496	"	**	44	100, plain " 15.84
Moldiness	8498	46	44	16	100, polished " 19.02
Rocoa	20146	**	44	64	200, plain " 19.98
Rode	20147	**	**	**	200, polished " 23.97
Molext	8499	44	"	44	300, plain " 23.49
Molify	8501	**	"	66	300, polished " 28-20
Molt	8502	44	**	**	400, plain " 27.60
Molten	8504	44	**	**	400, polished " 32.40
Moment	8505	**	44	44 -	600, plain " 36.96
Momentus	8507	44	44	"	600, polished " 44.37

WITHOUT SAFETY CATCH HOLDERS.

Single Pole.

Monad	8508	Capacity in	Amperes	up to	25,	plain e	eact	ı	\$1.62
Monarchial	8510	**	44	44	25,	polished	**		1.92
Monarchy	8511	**	44	46	50,	plain	"		4.65
Monastic	8513	44	44	**	50,	polished	"		5.58
Mongret	8514	44	**	44	100,	plain	и		5.76
Monkey	8516	44		11	100,	polished	"	,.,	6.93

Double Throw—Single, Double and Triple Pole -(Continued).

Single Pole.—(Continued.)

Code Word.	List No.							Lis	t Price.
Rodent	20148	Capacity	in Amperes	up to	200,	plain	each	\$	7.86
Rodge	20149	"	"	44	200,	polished	"		9.45
Monkish	8517	"	44	"	300,	plain	44		8.61
Monopoly	8519	44	"	"	300,	polished	۳ ا		10.38
Monotony	8520	"	"	44	400,	plain	"		9.36
Monthly	8522	44	"	"	400,	polished	۳ ا		11.25
Monument	8523	44	44	"	600,	plain	"		13.56
Moose	8525	u	46	"	600,	polished	1 "		16.29

Double Pole.

Macaroni	8526	Capacity in	a Amperes,	up t	o 25, plain, each	2.70
Muce	8528	44	"	46	25, polished "	3.24
Macarate	8529	"	44	44	50, plain "	6.24
Machinery	8531	,44	"	**	50, polished "	7.50
Machinist	8532	"	"	44	100, plain "	9.36
Madam	8534	"	44	44	100, polished "	11.25
Rodomel	20150	44	44	"	200, plain "	12.24
Roestone	20151	**	44	"	200, polished "	14.73
Madcap	8535	44	44	**	300, plain "	14.25
Madman	8537	44	"	"	300, polished "	17.10
Madness	8538	44	44	"	400, plain "	16.20
Magazine	8540	"	"	44	400, polished "	19.44
Maggot	8541	"	44	"	600, plain "	21.93
Magic	8543	"	"	**	600, polished "	26.34

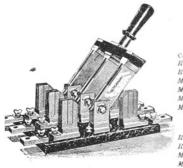
Triple Pole.

Magical	8544	Capacity in	Amperes	up t	o 25,	plain	each	1	3.78
Magistrate	854 6	"	4	""	25,	polishe	d "		4.53
Magney	8547	"	"	"	50,	plain	44		8.28
Magnifying	8549	"	"	"	50,	polishe	d "		9.96
Magnitude	8550	u	"	"	100,	plain	"		14.10
Magpie	8552	"	"	"	100,	polishe	d"		16.92
Rogue	20152	"	"	44	200,	plain	44		17.73
Rodgeship	20153	"	"	"	200,	polishe	d "		21.30
Mahometan	8553	44	"	"	300,	plain	"		20.85
Maiden	8555	"	44	44	300,	polished	d "		25.05
Maidenly	8556	44	"	"	400,	plain	"		23.97
Maimed	8558	"	**	"	400.	polishe	d "		28.77
Maiming	855 9	44	"	46		plain	"		32.58
Mainsail	8561	46	44			polishe	d "		39.09

Double Throw-Single, Double and Triple Pole

(Continued).

WITH SAFETY CATCH HOLDERS.



Nos. 8562, 8568 and 8574.

			Single Pol	le.				
Code Word. Royal	List No. 20154	Capacity i	in Amperes	up to	800,	plain,	each	List Price 24.52
Royn	20155	**	44	66	800,	polished	1 "	. 29.44
Maintain	8562	14	**	66	1200,	plain	44	32.27
Maize	8564	44	44	66	1200,	polished	1 "	38.74
Majestic	8565	66	66	66	1800,	plain	44	45.21
Major	8567	66	66	66	1800,	polishee	1 "	54.25

Double Pole.

Roist	20156	Capacity in	Amperes	up to	800,	plain	eacl	1	41.32
Roke	20157	44	66	66	800,	polished	-		49.60
Majority	8568	66	66	55	1200,	plain	66		64.55
Malapert	8570	44	44	66	1200,	polished	66		77.48
Malaria	8571	66	66	66	1800,	plain	66		77.45
Makcontent	8573	**	66	66	1800,	polished	1 "		93.36

Triple Pole.

Rokeage	20158	Capacity	in Amperes,	up	to 800,	plain,	eac	h	63.23
Role	20159	66	**	66	800,	polished			75.90
Mope	8574	66	44	44	1200,	plain	64		103.29
Moping	8576	44	44	44	1200,	polished	1 "		123.95
Moral	8577	44	66	66	1800;	plain	"		116.16
Morality	8579	66	u.	44	1800,	polished	1 "		139.39

WITHOUT SAFETY CATCH HOLDERS.

Single Pole.

Rollcall	20160	Capacity in	Amperes	up to	800,	plain	each	١	21.78
Roller	20161	- 44	64	66	800,	polishee	d "		26.14
Moralize	8580	44	64	66	1200,	plain	66		28.64
Morass	8582	64	66	- 66	1200,	polished	1 "	. ,	34.39
Morbid	8583	66	66	66	1800,	plain	66		40.09
Morbidness	8585	44	44	14	1800,	polished	1 44		48.11
						-			

Double Pole.

Rollerbolt	20162	Capacity in	Amperes	up to	800,	plain	eacl	١	37.14
Rollermill	20163	44	66	66	800,	polished	1 44		44.00
Morose	8586	44	66	66	1200,	plain	44		57.38
Malicious	8588	66	44	44	1200,	polished	1 44		68.87
Maline	8589	44	44	44	1800,	plain	44		68.74
Malignity	8591	44	66	44	1800,	polished	1 "		82:33

Triple Pole.

Rollingpin	20164	Capacity in	Amperes	up to	800,	plain	each	 56.10
Rollingpress	20165	64	**	64	800,	polished	d "	67.32
Malard	8592	44	44	66	1200,	plain	66	91.67
Mulling	8594	66	66	66	1200,	polished	1 "	 113.52
Malt	8595	66	44	66	1800,	plain	66	 103.16
Mammalia	8597	44	66	66	1800,	polishee	d "	 123.78

Double Throw—Single, Double and Triple Pole

(Continued).

Separate Lugs for Blade Switches.

Code Word.	List No.							Lis	t Price
Mammon	8598	Capacity in	Amperes	up t	o 25,	plain	each		.11
Mammoth	8599	66	44	44	25,	polished	1 "		.12
Manacle	8600	44	44	66	50,	plain	66		.15
Manacled	8601	66	64	66	50,	polished	1 "		.17
Romage	20166	66	66	44	100,	plain	44		.29
Roman	20167	44	44	66	100,	polished	1 "		.34
Manacling	8602	66	66	66	150,	plain	44		.29
Manage	8603	44	66	66	150,	polished	66		.34
Romance	20168	4.6	66	66	200,	plain	66		.44
Romaunt	20169	46	44	66	200,	polished	1 "		.49
Management	8604	66	64	66	300,	plain	44		.58
Manager	8605	**	46	66	300,	polished	1 44		.65
Managing	8606	66	44	66	400,	plain	44		.58
Manakin	8607	66	64	44	400,	polished	14		.65
Mandamus	8608	66	44	66	600,	plain	44		.73
Mandaria	8609	**	44	"	600,	polished	"		.80
Romeine	20170	66	44	66	800,	plain	**		.97
Romekin	20171	44	46	66	800,	polished	44		1.07
Mandate	8610	44	44	66	1200,	plain	44		2.20
Mandatory	8611	44	66	66	1200,	polished	1 "		2.44
Mandrake	8612	44	44			plain	"		3.34
Mandrel	8613	66	44	14	1800,	polished	"		3.67



No. 20199. Open.



No. 20199. Closed.

Bryant High Tension Service Switch and Fuse Box Combined.

Designed for 500 Volt Motor Service Switch. Made of iron, slate lined, slate thoroughly baked in oil. It is double pole, double break. The distance between the terminals is five (5) inches. The positive and negative sides are separated by slate

When opened the fuse terminals have no connections whatever with the live wires, and are therefore safe and convenient to fuse.

When the box is closed no live parts can be toucned either intentionally or by accident. It is moisture and weather proof.

The box is also adapted to work on primary alternating circuits 1000 volts. It combines both the features of a cut-out and knife switch.

Code Word	List No						List	Price
Rooster	20199	High Tension	Service	Switch,	100	Amperes,	500	
		Volts, each						7.00

Larger sizes made to order.

蒃.

Price of Connections for Blade Switches.

In figuring the cost of Knife Switches on pages 46 to 53 inclusive, add to the list prices the list prices of connections berewith.

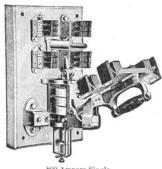
Prices on connections are subject to the same discount as the switches.

	FOR	SING	LE T	HROW			FOR	DOUB	LE	THROW	<i>/</i> .
25	Ampe	res, 1	Pole		.27	25	Ampe	res, 1	Pole		8 .39
25	**	2	٠.		-54	25		2	**		.81
25	**	3	" .		١8،	25	44	3	"		1.20
50	"	1	*		-69	50	44	1	44		1.20
50	**	2	**		1.35	50	46	2	44		2.40
50		3,	"		2.00	50	44	3	**		3.60
100	**	1	"		.87	100	**	1	*		1.74
100	**	2		• · · · · ·	1.74	100	**	2	45		3.48
100	**	3	"		2.79	100	**	3	14		5.22
200	**	1			.93	200	44	1	"		1.86
200	**	2		.	1.86	200		2	**		3.72
200	"	3	"		2.94	200		3	**		5.58
300		1			1.20	300		I	**		2.46
300	**	2			2.40	300		2	"		4.80
3 00	**	3			3.60	300		3			7.41
400	44	1		• • • • • •	1.62	400		1	u		3.30
400	"	2		• • • • • •	3.24	400	44	2	**		6.66
400	41	.3			4.80	400		3	**	• • • • • • • •	9.99
600	"	1	٠		2.13	600		1	"		4.26
600	"	2	"···	· · · · · ·	4.26	600	**	2	**	• • • • • • •	8.52
600	"	3			6.39	600	"	3	"		12.78
800		1		• • • • •	2.94	800	**	'1	**		5.23
800	"	2		• • • • • •	5.88	800	"	2	**	• • • • • • •	11.46
800	4	3	" ··	• • • • • • • •	8.82	800	**	3	**		17.79
1200	4	1		• • • • •	4.02	1200	**	1	16		8.67
1200	"	2		• • • • •	8.01	1200	"	2	"	• • • • • • • •	17.34
1200	"	3		• • • • •	12.00	1200	61	3	"	• • • • • • •	25.98
1800		1			4.14	1800	4	1	"		9.99
1800	"	2		• • • • •	8.28	1860	"	2	"	• • • • • • • • •	19.98
1800	"	3	"	• • • • • •	12-66	1800	"	3	"		30.00
For Sir	ngle Pole	Switcher	s, as abo	ve. 2 Con	nections.	For Sin	ngle Pole	Switches	. as a	bove, 3 Con	nections.
" Do	uble "	"	**	4	18	" Do	uble "	.,		6	н
" Th	ree ¹¹	"	**	6	"	" Th	ree "	**	11	9	**

In ordering Switches, be sure to specify connections if they are desired.

Open. Small Size.

Closed. Large Size.



800 Ampere Single.

I-T-E Automatic Magnetic Circuit Breaker.

Single Pole and Double Pole, Direct or Alternating Current, Standard Switchboard Type, Back Connections.

Size of Base.

Fron	n 5	Amperes	to 60	Amperes,	Single Pole		 		7	X	11	X	1	inches.
66		44	600	""	66	 			10	X	14	х	13	**
44	800	66	1000	66	44				11	Х	17	X	14	66
66	5	66	60	"	Double Pole				7	Х	13	v	11	66
66	80	44	600	44	44				10	х	17	X	14	44

The Double Pole Circuit Breakers between 80 Amperes and 600 Amperes are identical in construction with the 800 Ampere Single Pole.

Finish, Price-List, Rating and Adjustment.

The I-T-E Standard Switchboard Circuit Breakers are furnished in the following finishes:

No. 1. Standard. Mounted on black enamel, slate or marble base, as desired. Jacket finished in polished nickel; current-carrying parts natural copper finish, highly polished and lacquered; non-electrical parts nickelplated.

No. 3. Rough Type. Mounted on plain slate base. plated; current-carrying and non-electrical parts dipped finish; all movable iron parts copper-plated; all bearing pins phosphor bronze.

Should the Circuit Breaker be desired for switchboard work on template, so state and give thickness of switchboard.

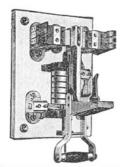
Double Pole Circuit Breakers of this type should not be used on circuits of over 250 volts. Price of No. 3 finish is 10 per cent. less than list of No. 1 finish.

Direct Current.

			Direct Ct	mrent.		
	Actual Rating	ADJUS	TMENT AM	PERES.	NO. 1	FINISH.
CODE.	Amperes.	Steps.	Lowest.	Highest.	Single Pole.	Double Pole
OI	2000			7		
PI	1500			l i		
AI	1000	150	800	1600	\$98.00	\$146.25
QI	800	100	700	1400	98.00	146.25
QI	600	100	500	1000	69.00	103.00
BI	500	80	400	800	66.00	98.00
VI	400	70	350	700	63.00	94.00
CI	300	60	225	525	57.00	85.00
DI	200	50	150	350	45.00	67.00
GI	100	25	75	175	39.00	58.00
WI	80	20	60	150	39.00	58.00
HI	60	20	45	125	33.00	49.00
XI	45	15	35	95	1	1)
KI	30	15	25	75		
YI	20	5	15	40	> 30.00	> 45.00
MI	10	4	8	24	11	
NI	5	2	4	12		

Alternating Current.

	Actual	ADJUST	MENT AM	PERES	NO I	FINISH.
CODE.	Amperes.	Steps.	Lowest.	Highest.	Single Pole.	Double Pole
OAI PAI AAI QAI UAI BAI VAI CAI DAI GAI WAI HAI	2000 1500 1000 800 600 500 400 300 200 100 80 60	150 100 100 80 70 60 50 25 20 20	800 700 500 400 350 225 110 75 60 45	1600 1400 1000 800 700 525 350 175 150 125	\$122.50 122.50 86.25 82.50 78.75 71.25 56.25 48.75 41.25	\$183.00 183.00 128.75 122.50 117.50 106.25 83.75 72.50 61.25
XAI KAI YAI MAI	45 30 - 20 10	15 15 5	35 25 15 8	95 75 40 24	- 37.50 37.50 37.50 37.50	56.25 56.25
MAI	5	2	4	12	31.00	



Circuit Breaker with Swinging Arm Handle,



Throwing-in Arm.

Complete Shunt Block. Fuse in Position

I-T-E Automatic Magnetic Circuit Breakers

—(Continued).

This cut represents Circuit Breaker with Swinging Arm Handle to permit of its location at top of Switchboard or under hood of street railway car.

Throwing-In Arm.

Throwing-In Arm for use on 800 Ampere Single Pole and larger, and 300 Ampere Double Pole and larger

This arm is included in price for above size Circuit Breakers.

I-T-E Shunt Block with Protected Terminal Fuse.

For high voltage work, where an extra precaution is desired to protect the contacts of circuit breaker, it is advisable to use the protected terminal fuse and shunt block. By means of this device the are is transferred from the contacts of circuit breaker to a favorably located fuse of such construction that the terminals of fuse block are protected and arcing cannot be maintained.

These fuses are much less in carrying capacity than the minimum adjustment of the circuit breaker, hence they afford an absolute protection.

Shunt Blocks.

Style A 2, 600-80	Amperes,	each.	 \$6.00
Style A 3, 80-5	44	64	 6.00

Price includes an extra set of plugs.

Protected Terminal Fuses.

SWITCHBOARD TYPE.

For	2,000-1	,000	Amperes,	per 100	 	 	6.00
For	800-	r	4.6	ч	 	 	4.50

SIZE OF FUSE TO PROTECT STANDARD



SIZE OF STANDARD

anamaman ()	Portion.
annound Marie	Primary]

Protected Terminal Fuse.

	CIRCUIT	BREAKERS.		CIRCUIT BREAKE	RS.
	Code	Capacity Amperes, Actual.	Type Shunt Block.	Primary Fuse	Metal.
	OI	2000	A-1	No. 10 B. & S.	Copper.
	PI	1500	A-1	10 "	*41
	AI	1000	A-1	12 "	66
	QI	800	A-1	12 "	44
	ÜÎ	600	A-2	14 "	44
	BI	500	A-2	16 "	44
	VI	400	A-2	18 "	44
	CI	300	$\Lambda-2$	18 "	44
	DI	200	A-2	18 "	66
	GI	100	A-2	18 "	44
	WI	80	A-2	20 "	66
	HI	60	A-3	22 "	66
	XI	45	A-3	24 "	44
	KI	30	A-3	24 " 15 Amp.	Lead and Tin
0	YI	20	A-3	10 "	44
	MI	10	A-3	5 "	64
	NI	5	A-3	3 "	44

We also make a form of shunt fuse block designed to have the fuse "blow" back of the switchboard, but controlled from the front.

I-T-E Mercury Contact Circuit Breakers

For Direct and Alternating Current both in Single and Double Pole.

SPECIALLY DESIGNED FOR CURRENTS OF HIGH VOLTAGE.

The contacts and mercury-containing cups are made of aluminum, a metal with which mercury will not amalgamate.

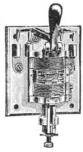
This form of Circuit Breaker is intended to be used for service wires entering buildings and also for all mains carrying currents in excess of 10 amperes. There are but two forces employed in this device, namely, gravity and magnetism.

Size of Base.

5 Amperes to 60 Amperes, Single and Double Pole, 6 x 7 x 3 inches.

	Actual	ADJUS	TMENT AM	PRICE.		
CODE.	Rating Amperes.	Steps.	Lowest.	Highest.	Single Pole.	Double Pole.
Hg NI Hg MI Hg YI Hg KI	5 10 20 30	2 4 5 15	4 8 15 25	12 24 40 75	\$12.00	\$16.50
Hg XI Hg HI Hg WI Hg GI	45 60 80 100	15 20 25 30	35 45 65 75	90 125 175 200	16.50 22.50 30.00	22.50 30.00 36.00

The jackets and all other non-current carrying parts are nickel-plated. The current-carrying parts are polished aluminum.



Double Pole Mercury Contact.

I-T-E Mercury Contact Cicrcuit Breakers

For Underload and Overload.

Specially designed for use in connection with Motors, to open a circuit in case of an overload; also, to open the circuit in case of an underload or a break between motor and service supply. This special device protects motor and building against overloads and fires resulting therefrom. It also protects the generator and cables against sudden overloads. The underload feature protects motor and building in case the current is momentarily cut off at the generator end.



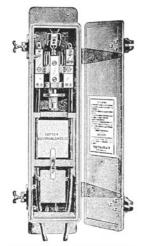
5 Amperes to 60 Amperes, Single Pole and Double Pole, 6 x 7 x 3 inches.

CODE.	Actual	A STATE ASSESSED.				PRICE.		
CODE.	Rating Amperes.	Steps.	Lowest.	Highest.	Adjustment Amperes.	Single Pole.	Double Pole.	
Hg N2I	5	1	5	10	1))	
Hg F2I	71	11	8	16	11/2	1 1	1	
Hg M2I	10	2	10	20	2			
Hg L2I	15	3	15	30	3	010.00	400 70	
Ig Y2I	20	4	20	40	4	\$16.50	\$22.50	
Hg T2I	25	5	25	50	5	1 1		
Hg K2I	30	6	30	60	6		1	
Hg X2I	45	9	45	90	9			
Hg H2I	-60	12	60	120	12	22,50	30.00	
Ig W2I	80	16	80	160	16	30.00	40.00	
Hg G21	100	20	100	200	20	40.00	50.00	

The Mercury Circuit Breakers are positive in action, and are guaranteed to operate at all times within five per cent. of adjustment. They are non-areing, having a long, clean break of five inches, and can be instantly, and without special effort, re-set. These Circuit Breakers cannot be re-set if the same excess of current or trouble still exists on the wires that caused it to open.



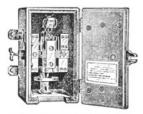
Underload and Overload.



Platform Type, to use on Dashboard.



Fuse Block.



Sill Type, to use on Platform Sill.

I-T-E Automatic Magnetic Car Circuit Breaker.

The severe conditions under which street railway equipments operate demand some other protection than that afforded by fuses.

Briefly, the following troubles in Electric Railway Service are remedied by the use of the "I-T-E" Magnetic Circuit Breaker.

Careless treatment and abuse of equipment by incompetent or reckless motormen.

Interference of travel, due to power-station Circuit Breakers opening on the failure of some individual car.

The continuance of the arcing, present after a "ground" or "short circuit" occurs, in the motor equipment, owing to the sluggishness of the heavy fuses to "blow;" results in the destruction of surrounding material and insulation.

Development of new flaws and faults in the apparatus, during a "short circuit" or "ground," owing to the abnormal carrying capacity of fuses employed.

The circuit is opened in less and less time as the circuit protected approaches nearer and nearer a "short circuit,"

Positively no burning or blistering of contacts when circuit breaker opens.

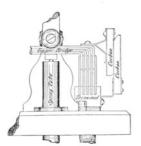
Means of keeping a record of each time circuit breaker is opened.

The device is simple and inexpensive to maintain.

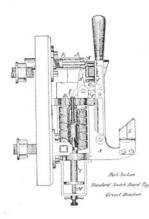
Adjustment independent of friction, springs or other features liable to cause alteration.

TYPE.	RATING AMPERES.		ADJUSTMENT AMPERES.			LIST PRICE.	
	Actual.	Nominal	Steps.	Lowest.	Highest.	Sill.	Dash
RI SI	60 60	80 80	25 50	100 150	175 250	\$18.00 18.00	\$19 19

Prices quoted on larger sizes and on special forms on receipt of inform giving requirements.



Top View of Circuit Breaker. Showing Carbon Protection.



"I-T-E" Circuit Breakers.—Continued. Special Instructions.

In ordering state style of finish by number—(whether No.1 or No. 3);—character of base—(when ordering No. 1 finish). Also state whether circuit breakers ordered are desired for direct or alternating current. If to be shipped unmounted, state thickness of switchboard on which the circuit breaker will be used.

The "I-T-E" Circuit Breakers can be furnished on plain, polished or enameled slate or marble, as desired. Unless otherwise ordered slate bases will be furnished.

Special size and style bases will be furnished on receipt of definite information, for which special prices will be given on application.

We are prepared to furnish "I-T-E" Circuit Breakers to meet the varying requirements of storage battery work on receipt of definite information.

The "I-T-E" Circuit Breaker has frequently been used as an ampere meter for obtaining readings of sudden flows of current. When the Circuit Breaker is desired for such work, if advised, we will carefully calibrate the same for each adjustment throughout its range.

ACTUAL RATING.—The Cutter Electrical and Manufacturing Co. Standard. Heating of any part of Circuit Breaker not to exceed 20 deg. C. above surrounding atmosphere after a 10-hour consecutive flow of current, as tabulated in column under heading of actual rating.

IMPORTANT NOTICE.—While the range of the "I-T-E" Circuit Breaker is very great and allows of large jump of current, it must not be used for carrying continuously current in excess of its actual rating.

Detail Section of "I-T-E" Circuit Breaker, Standard Switchboard Type.

- A Iron Jacket.
- B Solinoidal Coil.
- C Movable Plunger.
- D Fixed Plug.
- E Striker Pin.
- F Catch of Striker Plate.
- G Catch of Switch Arm.
- H Striker Plate to throw Switch out.
- I Spring Piston.
- J Spring Tube, head removable.
- K Steel Striker Plate on Arm.
- L Buffer Springs.
- M Adjusting Screen.

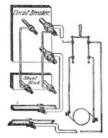


Diagram No. 1.



Diagram No. 2.

Diagram of Connections of "I-T-E" Current Breakers.

Diagram No. 1.

Showing method of connecting "I-T-E" Circuit Breaker and protected Terminal Fuse Shunt Block.

Diagram No. 2.

Showing method of connecting Double Pole "I-T-E" Circuit Breakers.

CUT=OUTS.



Fixture Cut-outs.

List No. 900 Straight (Long), each...... \$0.32

List Price.

Exalted

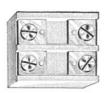
STRAIGHT (LONG), No. 900.



QUADRANT, No. 901.



MIDGET, No. 902.



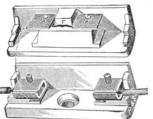
Examine

Midget, D. P., No. 903.



This is a Fixture Cut-out with a cover which can be removed to renew fuse. It is small enough for smallest canopy.

Examining



No. 19. OPEN

Fixture Cut=outs—(Continued).

This is similar to No. 18, but is made straight instead of curved, and can be used wherever a single pole Cut-out is desirable, or where wires are run over moldings or cornices

Code Word. Examined

List No. List Price. 19 Covered Bug Cut-out, each\$0.12

Use No. 18 for fixtures using 5 amperes and under. For larger fixtures use No. 19.



The Bryant Bug Cut Out.

Code Word List No List Price 1106 Each Vineyard 24487

Concave-head contact screws in the base, and convex in the cap, insure a perfect contact where the two connecting wires are of different gauge.

The cover, being held in place by but one nut, can be readily removed for fusing.



No. 24487-Covered.



Exactness Exactor

Single Pole Electrolier Cut-out, 6 light. each, Hard

Rubber Base, 11 inch long, each.

10





2395

2394 Newton Bug Cut-out only, each.....

" complete, with cover, each .20

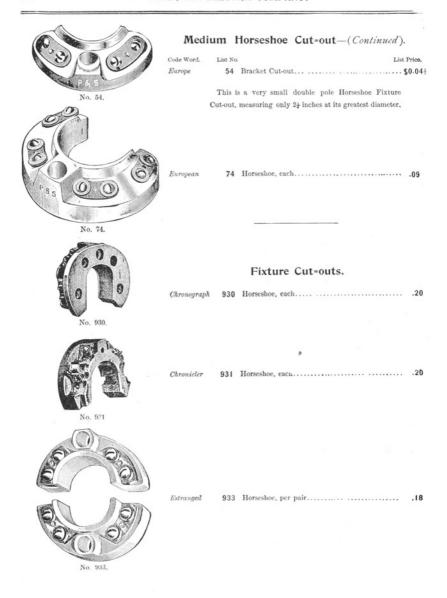


No. 2395.



Euphony

Medium Horseshoe Cut-out.



	Fixture Cut-outs—(Continued).					
	Code Word. Estrange	List No. 932		Price. 60.20		
No. 932.		K. W. Ceiling Rosette.				
	Caliph	870	Packed in Individual Boxes. Cleat. each	.20		
BRYANT ELECTRICION						
CLEAT, No. 870. UARE BASE MOULDING, No. 924.	Call	926	Square Moulding, each	.20		
	Calling	871	Concealed, each	.20		
CONCEALED, NO. 871.	Callous	872	Combination, each	.20		

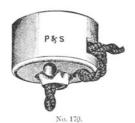
COMBINATION, No. 872.



K. W. Cleat Rosette-Improved Side Pieces.

 Code Word.
 List No.
 List Price.

 Chuckling
 950
 Each
 \$0.18



Self-Tying Ceiling Button



Caleb

Dovetail Rosettes.



No. 2301.



Dovetail Rosettes—(Continued).

2302 No. 104, for Moulding Work, each.....\$0.40

Code Word. List No. List Price.

No. 28 2.





No. 6.



Ether

Calibre

Fuseless Rosette.

This Fuscless Rosette is useful in factories and places where it is difficult to replace fuse. Five or six can be used on a branch with small branch block. It is fitted with a substantial clamp for wire, which also has a screw and washer at inner end to fasten the lamp cord to.

Combination Rosette.

Made in three styles, viz.: No. 80, for cleat and concealed; No. 81, for moulding or 3 wire and concealed; No. 82, full combination, for cleat, moulding, 3 wire and concealed. With No. 82 you can do any kind of wiring with the same Rosette, and it is only necessary to carry one kind in stock to be able to do any job.

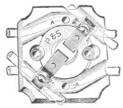
Ethics



Combination Rosette-(Continued).

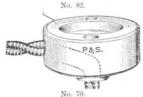
Code Word. List No. List Price.

Etiquette 81 For Moulding, Concealed and 3 wire, each.....\$0.14



Eugenie

Eulogist



"P. & S." High Insulation Ceiling Button.

This Ceiling Button effectually keeps the wire away from the ceiling. It is small, being but $1\frac{1}{2}$ inches in diameter.

70 Ceiling Button, per 100..... 2.50



Bryant Rosette and Cleat Combined.

The upper and lower parts are fastened together by the well-known K. W. Fastening.



"P. & S." Ceiling Rosette with Cap.



Imperial Rosettes.

Code Word. Li	st No.			List Price.
Somnambulator	25067	Two-piece Rosette, per	1,000	\$30.00
Somnambulic	25068	Base, only,	"	15.00
Somnambulism	25069	Cap, "	"	15.00
Somnambulist	25070	Solid Rosette,	"	30.00

Plain Rosette, No Fuse.

List Price. 869 Plain Rosette, each......\$0.15



Eva

Callow

"P. & S ." Concealed Rosette.

This is an adaptation of No. 40 Ceiling Rosette to concealed work. To remove cap, loosen the round head screws AA one or two turns.

No. 39.—Open.

No. 1324.

Porcelain Ceiling Button.

This Ceiling Button is used when it is desired to suspend the lamp at a distance from the rosette cut-out. No. 1323 is 11 inches, and No. 1324 is 21 inches diameter.

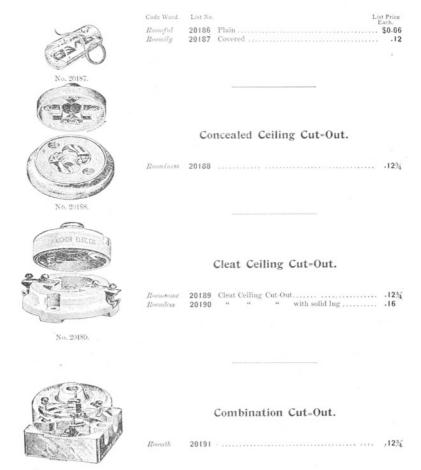
1323 11 inches in diameter, per 100...... 2.00 Eternally

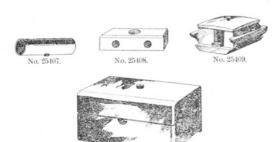
Eternity

1324 21 inches in diameter, per 100...... 3.50

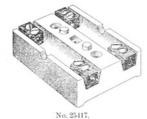
No. 20191.

Anchor Covered Chandelier Cut-Out.



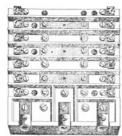


No. 25413.

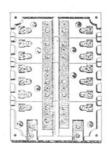




No, 25421.



Three-Wire Tablet Board.



Two-Wire Tablet Board.



No. 25124.







No. 25426.



No. 25427.

New Style Cut Outs.

Code Word, List No. Acauline

Acaulose

25407 Rubber Covered Midget Cut Out 25408 Porcelain Cleat.....

P. Branch Cut Outs.

Covered.

Acceleration	25409	10 a	mperes	capacity
Accelerative	25410	25	66	.44
Accelerator	25411	50	44	44
Acceletory	25412	100	**	66

P. Main Cut Outs.

	001	cicu.			
Accend	25413	10 at	mperes	capacity	
Accendibilit	y25414	25	64	46	
Accendible	25415	50	46	44	
Accension	25416	100	***	44	

P. Main Cut Outs.

	Onco	vere	u.	
Accentor	25417	10 a	mperes	capacity
Accentual	25418	25	.44	66
Accentuate	25419	50	46	64
Accentuation	25420	100	44	44

P. 500 Volt Motor Cut Outs.

Acceptablenes 25421. 30 amperes capacity Acceptability 25422 60 Acceptably 25423 150

Multiple Circuit Tablet Boards.

Built in any number of circuits from four up.

Branch Cut Out Block.

Acceptancy 25424 (1299 Two or three wire. capacity 30 amperes... Acceptation 25425 1235 Two or three wire, capacity 30 amperes

Acception

25426 2235 Three wire, single branch, capacity 30 amperes.....

Main Cut Outs.

Acceptius Acceptor 25427 1365 Three wire, main, capacity 75 amperes. 25428 1265 Three wire, main, capacity 30 amperes ...









No. 24478.





No. 24479.



No. 20725.

B. E. Rosettes.

Patented September 13, 1887, April 30, 1889; and April 23, 1895.

Caps are interchangeable and will fit any B. E. Rosette. Base,

The principal advantage of the B. E. Rosette lies in the adjustable spring contact in the cap. Slight pressure of a screw-driver against the spring will tighten or loosen the contact as desired.

Code Word	List No	B E. No	List Price Each.
Volunt	24477	1082 For Cleat Work	

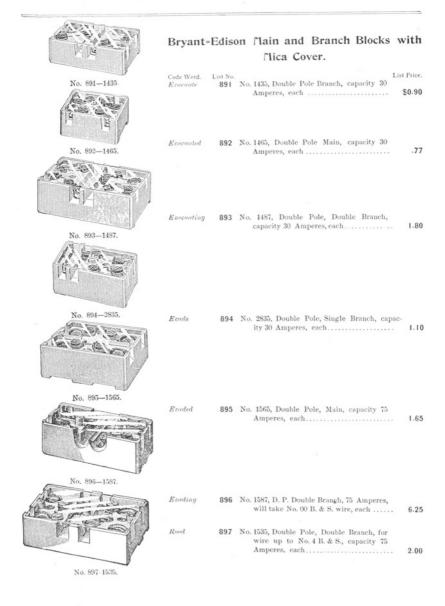
Volition 24479 1084 Square Base for Moulding Work15

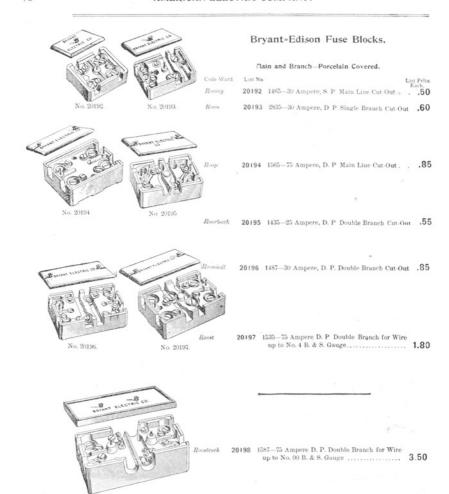
Bryant Porcelain Tablet Board.

For Two-Wire System.

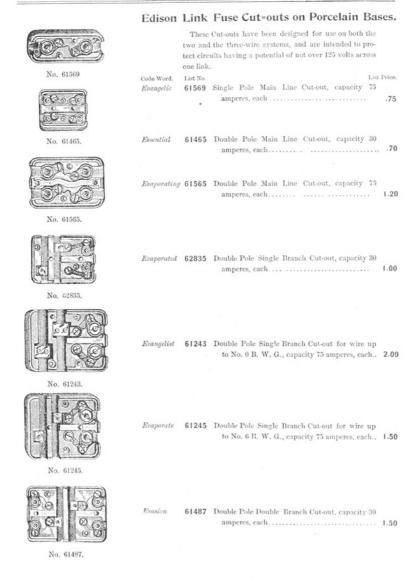
Surque	20723	1085	2	Circuits	š.,							,				1.6
Sacrat	20724	1086	4	11												2.0
Sucrament	20725	1087	6	66												3.0
Sacramental	20726	1088	8	4.								į				4.0
Sacrartam	20727	1089	10	+6												5.0
Sacrate	20728	1090	12	+4												6.0
Sucre	20729	1091	14	61												7.0

Each block or section includes two Circuits.





No. 20198.





Edison Link Fuse Cut-outs on Porcelain Bases

-(Continued).

Code Word. List No.

List Price.

Espoused

61587 Double Pole Double Branch Cut-out for wire up

to No. 0 B. W. G., capacity 75 amperes, each. \$4.00



No. 61535.

No. 61587.

Espy

61535 Double Pole Double Branch Cut-out for wire up

to No. 6 B. W. G., capacity 75 amperes, each. 2.50



No. 61299.

Espying 61299 Three to Two-Wire Double Branch Cut-out,



No. 61265.



No. 61365.



No. 62235.

 Code Word

Essaying



No. 61247.



No. 61235.





No. 62569.

No. 62965.



No. 61935.

No. 62945.



No. 62587.



No. 68020.

Edison Link Fuse Cut-Outs on Porcelain Bases.

(Continued).

61247 Three-Wire Single Branch Cut-out, capacity 75

		Amperes, each
Essence	61235	Three-Wire Double Branch Cut-out, capacity 30 Amperes, each
Roomage	28230	D. P. Double Branch Porcelain Cover, 10 Amp40

Edison Plug Cut=Outs on Porcelain Bases.

These Cut-outs have been designed to protect circuits having a maximum current of 30 amperes, at a max.mum potential of 125 volts.

MAXIMUM CAPACITY, 30 AMPERES.

Escorted	62569	Single Pole Main Line Cut-out, each	.30
Escorting	62965	Double Pole Main Line Cut-out, each	.50

Eserme	61935	Double Pole Single Branch Cut-out, each	.60
Exentcheon	62945	Double Pole Single or Double Cross-over Branch, each	1.30

Exculent 62587 Double Pole Double Branch Cut-out, each 1.10



No 62199.

Edison Plug Cut-outs on Porcelain Bases— (Continued).

Espousal 62165 Three-Wire Main Line, each...... 80

No. 62165.



No. 62135.

Espouse 62135 Three-Wire, Double Three-wire Branch, each. . 1.50

Edison Fuse Plugs.

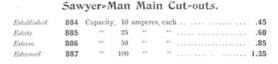
FOR USE WITH PLUG CUT-OUTS ON PORCELAIN BASES.





No. 66327

No. 884.





No. 938.

Sawyer-Man Main Cut-outs, Covered.

Esteeming	938	10 4	mpere	s, eacl	h.,	 						 	-40
Esthetic	939	25	44	**		 	 		 			 	.65
Esther	940	50	**	44		 	 		 			 	.80
Estimable	941	100	**	**		 	 	 					1.00



Sawyer-Man Branch Cut-outs.

Code Word.	List No											L	ist l	Pric	e
Estimate	888	Capacity,	15	Amperes,	each		 					,	.\$.1	4
Estimated	889	**	25	**	4.4					 				.2	0
Estimating	890	**	50		**							 		.4	4

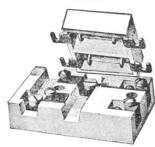




Sawyer-Man Branch Cut-outs, Covered.

Estimation	942	15	Amperes,	each	 .14
Estimative	943	25	**	4.6	 .22
Estoppel	944	50	**	4.0	 .46

No. 942.

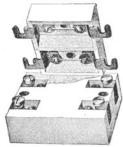


Estray Estreat Etch

K. W. Branch Cut-outs.

188	10 A	mpere	s, each	 					٠.							50	
882	30	**	- 64							 						90)
883	50		44	 		 					٠				1	.00)

No. 881.



No. 878.

K. W. Main Line Cut-out.

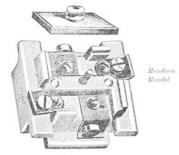
Etched	878	10 A	mperes,	each	h	.50
Etching	879	30	44	α		.80
Eternal	880	50	**	64		.90



Improved Form of S. M. Branch Cut-Out.

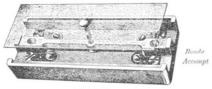
Code Word.	List No.												1	Lis	st Price
Romist	20172	25	Amperes,	each											\$0.45
Romp	20173	50	44	44											-70





Special Branch Blocks.

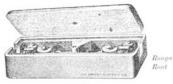
No. 20174.



500 Volt D. P. Cut-Out.

20176 10 amperes, mica cover, each..... .25 25468 10. " porcelain cover, each25

No. 20176.



500 Volt S. P. Cut-Out.

No. 945.

Ecicted Ecicting. Exiction Exact

Exacted

Exacting

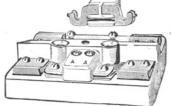


No. 1326.

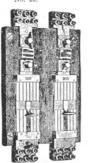




No. 1325.



No. 22.



No 2405.



No. 1320.

Seymour's Patent Branch Block.

Code Word.	List No.							L	ist F	rice.
Ererlasting	1326	10	Amperes,	with	china cover,	cach	1	 	.\$0	0.25
Ecersion	1328	25	**	61	66	4.4		 		.35
Exict	1330	50	44	66	**	+ 4		 		.57

Ecergreen 1325 10 Amperes, without cover, each..... Ecermore 1327 25 .27 Ecery 1329 5047

Sawyer-Man Main Block.

We furnish Sawyer-Man Main Blocks complete, with or without fuse plug. The fuse plug is a unique device for holding the fuse, and also acts as a cover for the fuse. To insert fuse, loosen screws AA one or two turns and insert fuse between brasses, tighten screws and the fuse will be held in position, and the plug can then be inserted under the regular screws on the Main Block.

THEY WILL FIT ANY MAKE OF SAWYER-MAN MAINS.

22	Sawyer-Man	Main	, 10	amperes,	each	١.						.17
23	**	4.6	25									.23
24	**	**	50	4.4								.34
25	**	**	100	4.4	4.4							.60
26	Fuse Plug,		10	- 44	4 -							.05
27	11		25	- 4								.05

Double Pole Switch Cut-out.

This Cut-out is of new design and embraces certain features specially adapting it for use in the mains, feeders and sub-feeders of incandescent wiring systems,

The terminals and Switch mechanism are of ample proportions for the service required, and at the same time are so compact in arrangement as to take but little room, a very desirable feature when the limited space allowed for Cut-out cabinets in buildings is considered.

The Switch breaks eitlier pole independently, making a quick break, and cannot be caused to open or close or become loose in connection by any jar communicated through a building.

Event	2405	100	Amperes,	eac	h.											5.00
Eventful	2406	200	11	4.6												6.00
Ecentual	2407	300	4.6	4.4												7.50
Everglade	2408	400	1.5	1.6											.1	1.00

Multiple Cut-out Board.

Excursion 1320 Per Circuit 1.80



Nos. 2588 to 2592.

Safety Fuse Block.

Code Word.	List No.		Soapst	one	_	 -	•								Ι	ist	Prie
Excel	2588	25	Amperes,	each	١			 . ,								5	2.5
Excelled	2589	50	**	4.4													2.7
Excellence	2590	100	11	4.6													3.0
Excellency	2591	250	4.6	1.6													3.5
Excellent	2592	400	**	**													

Covered Motor Cut-out.

Single Pole.

This Cut-out is designed for motors on power circuits, and as it has a fuse 3 inches long, it is especially adapted for 500 volt circuits. The channel which incases the fuse is of such a shape as to cause the fuse to be bent at four angles, which adds to the efficiency, as it is difficult to maintain an arc around an angle. To remove fuse cover, to renew fuse, loosen screws AA one-half turn.



No. 38.

No. 2409.

Establish

Excavation

2583

Essentially

Special Fuse Holders.

With Cable Terminals.

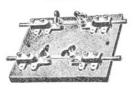
2409 cach...... 3.50

Main Line Fuse Blocks.

For use in main line circuits where no switch is required. Mounted on slate base, and, with exception of fuse bar, indestructible.



No. 2576.



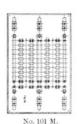
No. 2580.

		Single Pole.	
Example	2576	1 to 25 Amperes, each	1.00
Exasperate	2577	Over 25 to 100 Amperes, each	1.50
Exasperated	2578	" 100 " 300 " "	
Excarate	2579	300 ,, 600 ,, ,, ,, ,, ,, ,,	3.50
		Double Pole.	
Exeavated	2580		2.00
Excavating	2581	Over 25 to 100 Amperes, each	3.00
Excavator	2582	" 100 " 300 " "	5.00

Three Pole.

r:	0504	1 to 1	05 A		nores	each			3.00
Exceed	2584	I to	20 A	m	bere:	s, each			4.50
Execeded	2585	Over	25	to	100	Ampercs,	eac	h	
Exceeding	2586	4.6	100	**	300				
Exceedingly	2587	- 11							0.50
	,	T		n.t	ods	once for !	r 00%	rolts.	

Cut=Out and Distributing Boards.



No. 105 M.



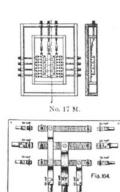


No. 145 B.

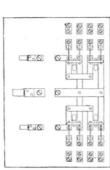
We illustrate a few of the many different styles of Cut-Out and Distributing Boards.

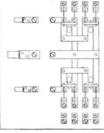
As most of these Boards are made in special sizes to suit the various conditions, it is difficult to list them. We have facilities for furnishing any style of these Boards, and will quote prices on receipt of specifications and

Boards may be furnished with plain slate, marbleized slate, or marble backs. Cut-Out boxes are made with single or double slate lining, and covers made of hardwood, slate or glass.



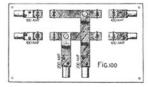








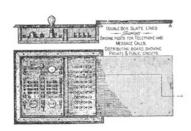
No. 135 M.



No. 145 S.

No. 100 M.

Cut=Outs and Distributing Boards.—(Continued.)



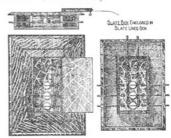


Fig. 146 M.

Fig. 147 M.

Main Branch Cut-Outs.

The Cut-Outs illustrated, Figs. 148 W and 149 W, are designed for large capacities and are for the purpose of taking circuits off from mains on each floor of large buildings. The Mains feed into the bottom of the Cut-Outs and out at the top, being fused at both points; if desirable, or copper strips may be placed instead of fuses. The circuits branch each way on the sides and can be fused for the capacity desired. For all Cut-Outs over 200 amperes, parallel fuses are used, insuring sufficient contact on the bottom of the fuses to carry the current without heating from lack of contact. The space occupied by the fuse tips is reset, making it impossible to twist the fuses when the set screw is screwed down, a feature not found in other Cut-Outs. The set screws are of steel, copper-plated, with slotted hexagon heads, enabling the use of either a wrench or screwdriver. The connections on the larger size of Cut-Outs are made with swivel lugs which are of ample carrying capacity. The polarites are separated by one-quarter inch slate insulation.

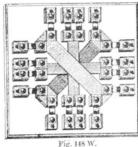
This style of Cut-Out is also made for the 3-Wire and 3-Wire convertible systems.

The neutral fuses and lugs are of twice the capacity of one of the outside to enable the wires to be thrown on the 2-wire system when desired.

Swivel lugs are used on all the Cut-Outs above 100 amperes.

The contacts are mounted on slate or marble bases.

In ordering these Cut-Outs state what size of wire is desired to connect to the terminals and they will be bored accordingly.



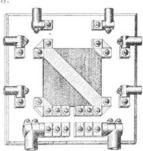


Fig 149 W.

SOCKETS AND RECEPTACLES.

Code Word. List No.





No. 849.



No. 859



No. 3609.

Bryant Standard No. 1 Sockets.

List Price.

Arthur	855	Westinghouse Key	\$0.60
Assimilate	856	Westinghouse Keyless	.50
Asa	851	Thomson-Houston Key	.60
Assimilating	852	Thomson-Houston Keyless	.50
Root	849	Thomson-Houston Key, Short Shell	.60
Rooterop	850	Thomson-Houston Keyless, Short Shell	.50
Exceptice	859	United States Key, each	.70
Exceptless	860	United States Keyless, each	.60
zan-patten	000	Cinca ciaco Acyreso, cacii	.00

No. 1 Bracket Sockets.

For Street Lighting.

WITH & INCH OPENING.

Calculate	3608	Thomson-Houston Base, Keyless	.20
Caldron	3909	Westinghouse Base, "	
Absenter	25298	Thomson-Houston Base, Key	.30
Absentation	25299	Westinghouse Base, "	.30



No. 952.



No. 20204.



No. 20208



No. 20202.

Sockets with Extra Long Keys.

Any Bryant Key Socket can be furnished with extra long key to special order. In ordering specify distance from outside of shell to end of handle.

Bryant No. 2A Key Sockets.

Roothouse	20204	No. 2A, Thomson-Houston Key Socket	.20
Rootleaf	20205	No. 2A, Thomson-Houston Keyless Socket	.15
Routless	20206	No. 2A, Westinghouse Key Socket	.20
Rootlet	20207	No. 2A, Westinghouse Keyless Socket	.15

Bryant No. 2B Fixture Sockets.

Rootstock	20208	Thomson-Houston Key Socket	.20
Rooty	20209	Thomson-Houston Keyless Socket	.15
Rooze	20210	Westinghouse Key Socket	.20
Ropalic	20211	Westinghouse Keyless Socket	.15

By means of the third bayonet joint, the shell is firmly "locked" to the base of the socket, making it impossible to "wobble" or "sag" when used with a heavy shade.

An examination of a sample lot will show its great advantage over the regular style.

Bryant Pull Socket.

Rooteuter	20202	Thomson-Houston Base	.50
Rooter	20203	Westinghouse Base	.50

G. E. Pull Socket.

Roothair 9400 Edison Base		-60
---------------------------	--	-----



Bryant Standard No. 1 Wall Socket.

Code Word.	List No.	Li	st Price. Each.
Rope	20212	No. 1, Thomson-Houston Key Wall Socket	\$0.25
Ropeband	20213	No. 1, Thomson-Houston Keyless Wall Socket.	.20
Ropedancer	20214	No. 1, Westinghouse Key Wall Socket	.25
Ropeladder	20215	Westinghouse Keyless Wall Socket	.20
Ropemaker-	20216	U. S. Key Wall	.64
Ropemat	20217	U. S. Keyless Wall . ,	.54

Bryant No. 2B Fusible Wall Socket.



Absentaneous	25300	Thomson-H	Iouston I	Key, con	cealed		.36
Absentment	25301	64	64	" cle	at		36
Absinthian	25302	68	44	" mo	ulding		36
Absinthiate	25303	44	" F			led	34
Absinthiated	25304	66	4+	66	cleat		 34
Absinthine	25305	64	14	66	mould	ing	 34
Absinthium	25306	Westingho	use Key,	conceal	led		 36
Absis	25307	4+	44	cleat			 36
Absist	25308	66	44	mouldi	ng		 .36
Absistance	25309	66	Keyle				.34
Absoluteness	25310	66	64	cle:	at		 .34
Absolution	25311	64	64	mo	ulding.		 .34

Caps are interchangeable and will fit any K. W. Rosette Base. Shell fitted with three bayonet joints, making a rigid fastening.



No. 20222.

Bryant No. 2A Wall Socket.

Ropetrick	20222	No. 2A, Thomson-Houston Key Wall Socket	.25
Ropewalk	20223	No. 2A, Thomson-Houston Keyless Socket	.20
Ropeyarn	20224	No. 2A, Westinghouse Key Wall Socket	.25
Ropely	20225	No. 2A, Westinghouse Keyless Wall Socket	20

Standard Edison Sockets.



No. 69323.

Ropiness	69323	Gen. Elec. Co. Key Socket with Fibre Ring,	
		polished	.35
Ropish	69364	Gen. Elec. Co. Key Socket with Rubber Ring,	
		polished	.40

Edison Sockets.







 Conduct
 66223
 Keyless Socket for ½ in. Pipe, plain
 ...
 .30

 Conduce
 66225
 " ½ " polished
 ...
 .35





Excreation 9319 Keyless Socket for High Candle-Power Lamps 1.30



Roral

No. 4505.



Edison Sockets-(Continued).

 Code Word
 List No
 List Price Each.

 Rorid
 4504
 Socket for Series Incandescent Lump for Arc Circuits.
 \$2.00



No. 60566.



No. 66307.



No. 66297.

Evenness	60666	Edison Hard Rubber Waterproof Socket	60
Roriferous	20226	T. H. Hard Rubber Waterproof Socket	60

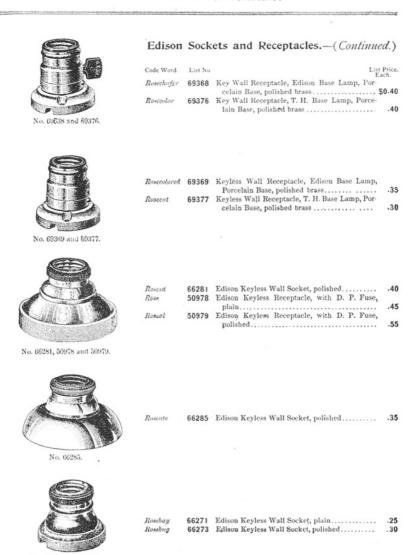
Rorqual	20228	T. H. Porcelain Waterproof Socket	.3
Rorulent	66307	Edison Key Wall Socket, polished	.6

Rarifluent 20227 Edison Porcelain Waterproof Socket35

 Rosy
 66297
 Edison Key Wall Socket, plain
 4

 Rosary
 66299
 Edison Key Wall Socket, polished
 4

No. 66272 and 66278.



Weather=proof Sockets.



No. 3203



No. 3202.



No. 3728.



No. 20254.

H. W. Johns Mfg. Co.'s Moulded Mica Lamp Sockets.

flade In Brown or Black.

Code Word.	List No	List I	Price
Architect	3203	Thomson-Houston Base, Pendant Socket, 6 inch wires\$0	.25
Arching	3202	Westinghouse Base, Pendant Socket, 6 inch wires, each	.25
Archibald	3201	Edison Base, Pendant Socket, 6 inch wires	.25
Archer	3204	" Mica Wall Socket	.40
Becoming	3728	" Mica Bracket Socket	.40

With Extra Long Wires.

	3.	lica	Sockets,	with wires	6	inches	lo	ng	 .25
		44	44	44	12		11		 .271
		66	44	66	18		14		 .30
		66	44	66	24		66		 .35
		66	44	66	30		66		 .40
		"	44	66	3	feet lo	ng		 .45
		"	44	66	4	44			 .55
		66	44	66	5	66			 -65
		66	44	66	6	44			 .75
		"	44	el	7	66			 .85
		"	44	44	8	44			 .95
		44	44	44	10	44			 1.15
Lactation	3383	Th	omson-H	ouston Bas	e, 1	Mica W	all	Socket.	.40
Lacteal	3384	W	estinghou	ise Base, M	lica	Wall	Soc	ket	 .40
Bedeck	3730	Th	emson-H	ouse Base,	Mi	ca Brae	eke	t Socket	 .40
Bedding	2729	W	estinghou	ise Base, M	lica	a Brack	ket	Socket.	 .50

Perkins Sockets.

Will fit & inch pipe bracket.

Plain Sockets.

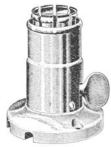
		Key Socket for Thomson-Houston Base Keyless Socket for Thomson-Houston Base	.40
--	--	---	-----



Perkins Sockets.—Continued.

Plain.

Code Word.	List No.				st Price.
Rosied	20256	Key Socket for	Westinghouse	Base	
Rosier	20257	Keyless Socket,	Westinghouse	Base	.35



No. 20260.

Wall.

Rosin	20258	Key Wall Socket for Thomson-Houston Base	.45
Rosiness	20259	Keyless Wall Socket for Thomson-Houston Base	.40
Rosinoit	20260	Key Wall Socket for Westinghouse Base	.45
Rosiny	20261	Keyless Wall Socket for Westinghouse Base	.40



No. 20262.

Fusible Wall.

Rosland	20262	
Rosmarine	20263	Base Keyless Fusible Wall Socket for Thomson
Ross .	20264	Houston Base
Rossell	20265	Base Keyless Fusible Wall Socket for Westinghouse
		Base

This Fusible Wall Socket is a combination of the Dovetail Rosette Cut-out and Perkins Socket. In ordering please state what style of base is required; whether cleat, concealed or moulding rosette.



No. 20269,

Plain.

Anchor Sockets.

Code Word.	List N	List F Ea	rice.
Rostel	20269	Key Socket, T. H. Base	
Rostelate.	20270	Key Socket, Westinghouse Base	.18
Roster	20271	Keyless Socket, T. H. Base	.16
Rostral	20272	Keyless Socket, Westinghouse Base	.16

Special 3-8 Keyless Socket.

Will screw on 3% inch pipe for street fixtures, brackets, etc.

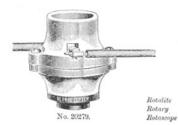


Re	28	t	10	a.	te	
Re	28	t	r	ļť.	m	

Wall.

Rosulate	20275	Key Socket, T. H. Base	.20
Rot	20276	Key Socket, Westinghouse Base	.20
Rota	20277	Keyless Socket, T. H. Base	.18
Rotal	20278	Keyless Socket, Westinghouse Base	.18
		Extra long handles, extra	.20
		Fancy finish, bronze, copper, etc., extra	.20
		" " marble, onyx, granite, extra	20





Cutter's, Street Hood Socket.

Has the terminals exposed on the porcelain shell so that it is readily wired without pulling the wires through a narrow neck. Saves time and insures high insulation. Shipped complete with iron flange threaded to fit standard streethoods.

20279	Complete,	T. H. Base	.25
20280	44	Westinghouse Base	.25
20281		Edison Base	.30



Bryant Porcelain Weatherproof Sockets.

Code Word	List No			List Price Each
Rosediamond	20229	T. H. Base		 . \$0.20
Rosedrop	20230	Westinghouse	Base	 20





No. 20232.

Rose-engine	20231	T. H. W P. Bracket Socket	.40
Rosefish	20232	Westinghouse W. P. Bracket Socket	.40

Fitted with & inch brass socket bushing for bracket work.



No. 20233.



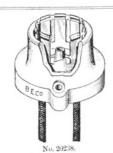
No. 20235.

Side Wires.

Rosefly	20233	Style A, for T. H. Lamp	.30
Rosegall	20234	Style A, for Westinghouse Lamp	.30

Bottom Wires.

Roschead	20235	For T. H. Lamp	.30
Roseknot	20236	For Westinghouse Lamp	.30



Bryant Porcelain Weatherproof Sockets.

-(Continued.)





-

Porcelain Keyless Receptacles.

Excitation	868	For Thomson-Houston System, each	-40
Excitative	1868	For Westinghouse System	.40

For Shade Holder.



No. 20856.

Made extra heavy; fastened by turning the top, and so arranged that Shade Holder can be held. These Receptacles are made with fusible cut-outs.

Saintess	20856	For Thomson Houston system, each	.25
Sainthood	20857	For Westinghouse system, each	.25





No. 921.

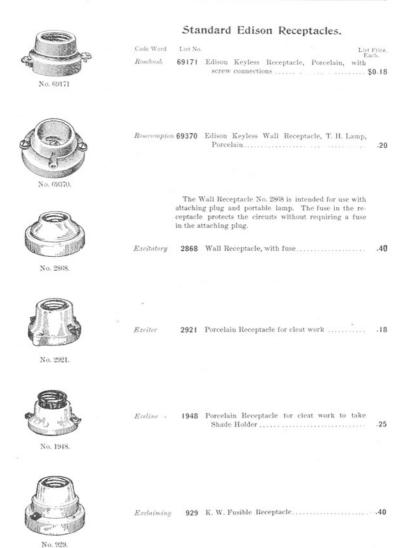
Excite	921	For Thomson-Houston System	.15
Excitement	1921	For Westinghouse System	.15



No. 948.

Special Shade Holder Receptacle.

Ece	948	Westinghouse Base	-20
Ecen	3948	Thomson-Houston Base	.20





No. 1949.

Standard Edison Receptacles—(Continued.)

 Code Word.
 List No.
 List Price.
 Each.

 Eccning
 1949
 K. W. Shade Holder Receptacle
 \$0.50



No. 8830.

8830 K. W. Shade Holder Angle Receptacle80

The second secon

No. 20240.

Edison Standard Waterproof Receptacles.



No. 20241.

This is the same as No. 2921, with the side lugs taken off and bottom wires inserted.



No. 20242.

and out of door work.



No. 25162.



No. 25168.



No. 25174.

Bryant K. W. Receptacle.

The K. W. Receptacle is for double fuse, the caps are interchangeable and will fit any K. W. base.

Code Word.	I	ist No.			L	ist Price,
Abducent	25162	Thomson-	Houston	Base	concealed	
Abduct	25163	56	44	44	cleat	.28
Abduction	25164	44	44	66	moulding	.28
Abductor	25165	Westingh	ouse	44	concealed	
Abeam	25166	**		66	cleat	.28
Abear	25167	**		+4	moulding	.28

K. W. Shade Holder Receptacle.

Abearance	25168	Thomson-	Houston	Base,	concealed	.32
Abccedarian	25169	66	44	66	cleat	.32
Abed	25170	66	66	6.6	moulding	.32
Abele	25171	Westingho	ouse	+6	concealed	.32
Abeltree	25172	66		66	cleat	.32
Abelian	251.73	44		44	moulding	.32

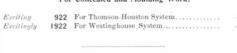
K. W. Shade Holder Receptacle-Angle.

Abelite	25174	Thomson-	Houston	Base	, concealed	.50
Abelonian	25175	44	- 44	66	cleat	.50
Abelmark	25176	66	44	66	moulding	.50
Aberdevine	25177	Westingho	ouse		concealed	.50
Aberr	25178	44		44	cleat	.50
Aberrance	25179	**		**	moulding	.50

Bryant Receptacle.

For Concealed and Moulding Work.







No. 25296.

Pony Receptacle.

Abscondence	25294	Bryant No.	1123 T. H.	Base	.10
Absconder	25295	Bryant No.	1124 West,	Base,	.10

Bryant Testing Base.

Absent	25296	Bryant	No.	1180	T. H.	Base	.10
Absenteeism	25297	Bryant	No.	1181	West	Base	.10



"P. & S." China Key and Keyless Sockets.

	Code Word.	List N	0.			Price.
ŝ	Rosclon	20243	Key Socket for	Drop Lights,	т. н	\$0.15
1	Rosepink	20244	44	ic	W. H	 .15
	Rosequarts	20245	Keyless Socket	44	T. H	 .12
	Roser	20246	44	66	W. H	 .12
	Roseroot	20247	Key Socket for	Fixtures	Т. Н	.18
	Rosery	20248	*44	6	W. H	.18
	Roset	20249	Keyless Socket	44	т. н	-15
	Rosetta	20250	44	44	W. H	.15
	Roscicater	20251	Key Wall Socke	et,	Т. Н	 .16
	Rosewindow	20252	44 44		W. H	 .16
	Rosewood	20253	Keyless Wall Se	ocket,	Т. Н	 .13
	Rost	20268	"		W. H	13



No. 117.







No. 114.

117 T. H. Porcelain Weatherproof Socket, P. & S. Exclusively

> The standard length of wire in this Waterproof Socket is 8 inches. We can, however, furnish them to order with wires of any length. Where it is desired to drop lamps a considerable distance from mains, it is an advantage to have wires long, so as to avoid splicing the wire.

"P. & S." China Wall Socket Receptacles.

We make these Receptacles in three different styles as shown. All have backs thus insuring high insulation. We use the same wire connection as is used in our Combination Rosette.

Exclamatory Exclude	108	With small back for Thomson-Houston Base	
Excluded Exclamative	111	With large back for Thomson-Houston Base " Westinghouse Base	
Exclusion	114	With small back and screw for Thomson-Houton Base	17
Excluding	115	With small back and screw for Westinghou Base	ise

Fusible Wall Socket Receptacles.



Code Word.	List N		Price
Discredit	8836	Concealed, for Thomson-Houston Base	
Discreet	8837	" Westinghouse Base	.17
Discretion	8839	Open, for Thomson-Houston Base	.17
Discriminate	8840	" "Westinghouse Base	-17
Discuss	8842	Cleat and Concealed, for Thomson-Houston Base	.19
Donald	8843	" Westinghouse Base	.19
Dorcus	8845	Moulding and Concealed, for Thomson-Houston	
		Base	.19
Dorinder	8846	Moulding and Concealed, for Westinghouse	
		Base	.19
Duncan	8848	Full Combination, for Thomson-Houston Base.	.19
Daub	8849	" " Westinghouse Base	.10



No. 20266.

P. & S. Waterproof Receptacle.

Rosselly	20266	Waterproof Receptacle, for Thomson-Houston	
		Base,	.20
Rossignol	20267	Waterproof Receptacle, for Westinghouse Base	.20



Edison Key and Keyless Lamp Receptacles-

Code Word.	List No.							List	Price
Excising	6000	Iron	Stage	Box	and	Receptacle	, capacity	50	
		am	peres,	each.				\$	4.50
Excision	6001	Attac	hing I	lug f	or No	. 6000, each			1.50



Ries' Regulating Sockets.

For Alternating Current Circuits, light can be regulated from dull red to full candle power, and the consumption of candle power controlled accordingly.

For Thomson-Houston Base Lamps.

Code Word	List No	Volts		Candle Power			Price Each.	
Accolent	25456	50	to	55	16	to	25	\$3.25
Accombination	25457	50	to	55	32	to	50	4.00
Accommodable	25458	100	to	110	- 16	to	25	4.00
A commodableness	25459	100	to	110	32	to	50	5.00

For Sawyer-Mann Base Lamps.

Code Word	List No	Volt	s	Candle	Power	Price Each
Accommodately	25460	50 to	55	16 1	to 25	\$3.25
Arcommodateness	25461	50 to	55	32	to 50	4.00
Accommodating	25462	100 to	110	16	to 25	4.00
Accompliceship	25463	100 to	110	32	to 50	5.00

Brunts' Regulating Socket.

Controls the electric light same as gas. Five degrees of light with a positive saving of current when turned down

This Regulating Socket is for 16 candle power Incandescent Lights. It is adapted to direct or alternating current: any voltage from 50 to 118. By the simple turning of Key you raise or lower your light from 2 to 16 candle power and consequently save your current when 'turned down. This Socket is valuable for the Sick Room, Vestibules and Sleeping apartments.

In ordering please state voltage and base (T. H. or-Edison.)

Thomson-Houston Base.

Code Word	List No.	Volts	Candle Power	Price Each
Accomplicity	25464	50 to 55	16	\$2.00
Accomplishable	25465	100 to 118	16	2.00
		Edison Base.		
Accomplisher	25466	50 to 55	16	2.00
Accomplishment	25467	100 to 118	16	2.00



No. 24488.

Weatherproof Sockets.

Type "D." for Shade-Holder.

Code Word.	List No	B E.	No		List Price, Each.
Villager Vigoroux			Thomson-Houston Westinghouse		 \$0.20
Vigorous	24489	1105	Westinghouse	 	 2

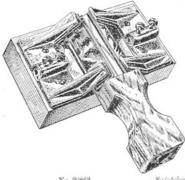
Regular length of wire is 12 inches Special length to special order

The rim at the bottom of the socket is a new feature designed to hold the shadeholder

No. 2A Brush Swan Socket.

Solfu	24490	1113	Brush-Swan	Base,	Key,	.30
Solfanara	24491	1114	4.5	4.6	Keyless	.24
Acutalepsy	25402	1116	**	**	Key Wall	.34
Acater	25403	1117	44	+6	Keyless Wall	.32





Stage Receptacle.

The Jaws and Wire Connectors are made in one piece, of heavy cast brass. The face of the Jaws are pure tempered copper, securely fastened

The handle is made of hard wood, appropriate for the purpose. The portion of the plug which enters the jaws is triangular in section, on two faces of which are secured heavy copper strips. These strips make a contact with the jaws and are also connected with the flexible cable which enters the handle of the plug through the hole in the end.

No.		

Saintologist	20862	Complete	3.20
Saintship	20863	Without plug	2.50
Sujene	20864	Plug only.	.70





Attachment Plugs.

Enameled Wood Handle not Fusible.

Acutes	25404	1163	United States Base	.15
Solfatura	24492	1115	Brush-Swan Base	.15



Attachment Plugs

Not Fusible-Wood Handle. With Metal Base.

Code Word.	List No.					3	ist Price.
Cetacean	867	For	Thomson-Houston	System,	each		. \$0.25
Cetaceous	1867	**	Westinghouse	**	6.6		25
Cetic	2867	"	Edison	**	16		25

No. 867.



Abscisso	25292	Attaching Plug'for Standard Lamp Socket, Por-	
		celain	.30
Abscissian	25293	Attaching Plug for TH Lamp Socket, polished	.30

Attachment Plugs.

No. 923.

Fusible-All Parts Brass and Porcelain.

The metal cover can be removed by giving it a quarter turn; the fuse is then easily inserted.

Bawling 923 I



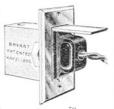
No. 92



NO.000 P. 100 P.







59.
Code Word.
Suintlike
Saintliness
Saintly
Farm
Fanatic

Reeling

Panting



ord.	Lis
ke	20
ness	20
/	20
	26
c	26

The Chapman Receptacle.

Patented May 21, 1895.

The Chapman Receptacle is placed in the wall, base-board or floor. When not in use the lid is closed—the plug being removed—and the face plate is flush, out of the way. All plugs are fused to thirty amperes, and are interchangeable.

Modern methods require a receptacle of this character placed in the base-board at every point where there is a possibility that current may be required for fan motors, deek lights electrical heating devices or hospital work

possibility that current may be required for fail moves, desk lights, electrical heating devices or hospital work. Distance between screw centers of face plate is $3\frac{3}{3}$ x $2\frac{1}{3}$ inches. Size of face plate is $3\frac{3}{4}$ x $2\frac{1}{3}$ inches.

		1	
List No.	B. E. N	io. L	ist Price.
20859	1108	Complete with lid and plug	\$3.00
20860	1109	" " plug, no lid.,	2.50
20861	1110	Chapman Attaching plug only	1.50
26000	1111	Receptacle only, with lid	1.50
26001	1112	" " no lid	1.00
Price	s cover	r light bronze face plates. Special finishe	8
to orde	r.		



No. 20861.

No. 262.

Woods Mats for Chapman Receptacles.

The Wooden Mat is furnished singly or in gangs to order, in any wood desired. It offers a convenient device for concealing the broken edges of the plastering made in cutting away for the receptacle.

262 1127 Wooden Mats, single switch, each.....

The above price covers the common woods, for rare



No. 26002.

and expensive woods special prices will be quoted. Iron Wall Boxes for Chapman Receptacles.

26002	1118	1	Outlet	at one	end only	y	80
26003	1227	2	64	64	**		.80
26004	1228	2	**	14	64	1 at other end	.80
26005	1229	1	11	at eac	h end		80

.30

These boxes are lined with porcelain enamel and are guaranteed to withstand an alternating current of 2,000 volts. Distance between screw centers is 3½ inches, adapting it for use with the Chapman Receptacle or any Standard Push Button-Switch on the market.



No. 26006.





No. 26008.

The Chapman Bracket Receptacle.

Adapted for use with any Standard \(\frac{1}{2} \) inch Bracket made from \(\frac{2}{2} \)-inch brass tubing. Regular finish is polished brass. Special finish to special order. Distance between screw centers of face plate is \(3 \)_{21} inches. Diameter of face plate is \(4 \) inches.

Tiger	26006	1128	acket	Receptacle complete with Plug	
			Mo. 1129	0,	.50
Tippler	26007	1183	Bracket	Receptacle only 2	50
Tigress	26008	1129	**	Plug only 2	00

This is merely a wood plug with brass plate, designed to fill the receptacle opening when not in use.

INCANDESCENT SUPPLIES.

MISCELLANEOUS.

and the same of th			
			Socket Bushings.
	Code Word.	List No.	List Price.
No. 3630.	An chored	3630	Genuine Hard Rubber, 1 inch, per 1,000\$20.00
0	Anchoress	3631	Composition, $\frac{1}{4}$ inch, per 1,000
No. 3632.	Anchorite	3632	Genuine Hard Rubber, † inch, per 1,000 30.00
	Anchoring	3633	Composition, $\frac{1}{8}$ inch, per 1,000 9.00
No. 3634.	Anchovy	3634	Genuine Hard Rubber, $\frac{1}{8}$ inch, per $1,000.\dots\dots30.00$
	Ancient	3635	Composition, \(\frac{1}{2} \) inch, per 1,000
No. 3636.	Anciently	3636	Soft Rubber, per 1,000 7.00
	,		
No. 3637.	Anciptal	3637	Genuine Hard Rubber, $\frac{a}{a}$ inch, per 1,00030.00
No. 2927.	Cemetery	2927	Polished Brass and Hard Rubber Fixture Bushing, each



No. 3457.

Cord Adjusters.

Code Word.	List No.				1.	ist Price.
Bindingly	3457	Ball Cord	l Adjuster.	stained cherry, pe	r 1,000	.\$7.00
Aam	25100	44	44	black enamel	. "	11.50



No. 3651.

Beamhird	3651	Bar Cord	Adjuster.	wood, per 1,000	7.00
Aardvark	25101	4	64	hard rubber, per 100	7.00



No. 5559.



No. 3561.

3561 Dumb Bell Cord Adjuster, per 1,000...... 8.00



No. 1337.

Socket Handles.

1337 Two Piece, screw top, per 1,000. . . . 15.00



Idleness

Idiotic

3556 One Piece, per 1,000......12.50

No. 3556.



No. 20760



The Dow Cord Adjuster.

The Dow Adjuster is a thoroughly reliable device for instantly raising or lowering any electric light, and is especially adapted for stores, offices, libraries and hospitals. Can be operated with one hand; is not liable to get out of order, and is much safer than long cords, as the cord when not in use can be rolled up out of the way. In most places the Adjuster can be placed on the cord now in use. It is three inches in diameter and holds twelve feet of cord.

Saddlehorse	20760	Nickel-plated	, per de	oz	 	\$ 20.00
Suddler	20761	Gilt,	44		 	 18.00

The Disc Cord Adjuster.

It is round, scarce two and a quarter inches in diameter; it is flat, a thickness of but little more than a quarter of an inch. It is in shape like a spool of small height and large diameter; it is hollow, and in its inside is a well tempered spiral spring. A wire twisted into a pecular shape, fastens this little device to a lamp cord, In the spool-like groove is wound a cord which passes through the loop, extending from the side wire. Fasten it to the lamp cord, pull this cord out the entire length; this winds up the spring, and while the cord is extended fasten it to the lamp cord. You can then raise your lamp to any desired height. It will stay there until you change it.

Suddleroof 2	20762	Each				.50
--------------	-------	------	--	--	--	-----



No. 8691.

Perfection Desk or Music Rack Clamp.

Sold complete, including half shade of opal, red, blue, green or yellow glass or of aluminum.

Crimeful	8691	Brass, each	3.50
Castlery		Nickel, "	4.00

In ordering, state kind of socket required.



Shade Holder for Cluster Lights.

Slips 1/8 Inch Tube.

Code Word.	List No.		List Price.
Calorio	3618	2¼ Inch, each	\$0.30
Calorific	3619	3½ " "	



Acme Shade Holder.

Will Fit Any Socket.

Belong	3803	21 1	Inch,	per gross.	 		10.00
Belonging	3804	31	**	**		 	15.00



Socket Rings.

American	3197	Hard Rubber Ring for Standard Edison Socket,	
		each	.15
Amethyst	3198	Porcelain Ring for Standard Edison Socket, each,	.10



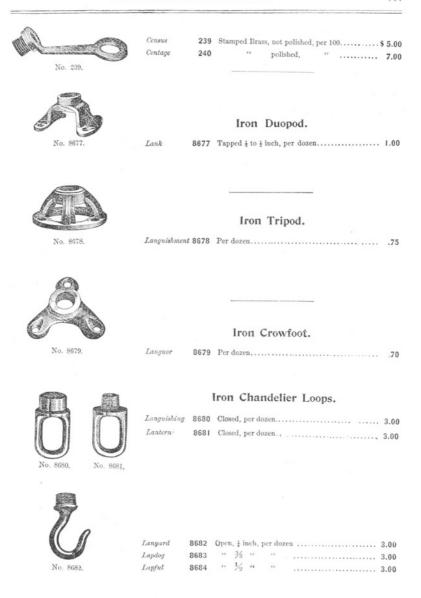
S TO

Gas Attachments.

Censorial	8723	Polished Brass, per 100 10.00
Ancient	3635	Composition Fixture Bushing for same, per 1,000, 12.00
Anchovy	3634	Hard Rubber " " " 30.00
Censurable.	8724	Polished Brass, per 100 9.00
Ancient	3635	Composition Fixture Bushing for same, per 1,000, 12.00
Anchoru	3634	Hard Rubber " " " " 30.00









No. 8983.

Lacquer Radiant.

For Coloring Incandescent Lamps.

The advantages of this material are: Cheapness, richness and permanency of color, and simplicity of application.

16 Ounce Bottie.

Code Word.	List No.												1	List	Price
Centennial	8983	Ruby, per	bottle											\$	2.00
Centering															2.00
Centesimal	8985	Blue,													2.00
Centigrade	8986	Green,	1.6												2.00
Centime	8987	Orange,	**			 ŀ	 								2.00
Centipede	8988	Violet,	1.0						į.						2.00

6-Ounce Bottle.

Mantau	14850	Ruby, per	bottle											.8
Manoka	14851	Amber,	**											.8
Manteno	14852	Blue,	4.4											.8
Manton	14853	Green,	4.6											.8
Manville	14854	Orange,	1.6											.8
Mapimi	14855	Violet,	4.4				 							3.

Full directions with each bottle.



No. 8989.

Frosting Varnish.

For Frosting Incandescent Lamps.

Contains no acid, is perfectly harmless and easily applied.

Centenary	8989	Per 16-oz. bottle	
Centallo	14856	Per 6-oz. bcttle	.80



No. 8990.

Metal Dipping Cup.

For Use with Lacquer Radiant and Frosting Varnish.

Centaur	8990	Each	.40

The Macallen Solid Mica Insulating Joint.



Registered July 31, 1894.



These Joints have been approved and recommended by the Boards of Fire Underwriters throughout the country, and are recognized by the trade as the standard insulating joint.

All our joints are tested electrically to 2500 volts, and all our combination joints are tested under high atmospheric pressure, and we guarantee them not to leak gas.

IN COMPOSITION BRASS.

			Combination.	
C	1001			0 E0
Cormorant	1001	§Χ ⅓,		
Corn	1002	8x 1/4,		.50
Cornea	1003	8 X 8,		.50
Corned	1004	½ X ⅓,		.66%
Cornelia	1005	½X ¼,		.66%
Cornelius	1006	½x §,		.66%
Corner	1007	½X ½,		.66%
Cornet	1008	£X ⅓,		1.00
Cornetcy	1009	4× 1,		1.00
Cornish	1010	4× €,		1.00
Cornucopia	1011	₹X ½,	·	1.00
Corollary	1012	₹X ₹,	44	1.00
Corona	1013	1 x ½,	"	1.60
Coronal	1014	1 x 2,	"	1.60
Coronary	1015	1 x1,	"	1.60
Coroner	1016	1½x1,	"	2.20
Corporal	1017	11x11,	"	2.20
Corporally	1018	1½x1½,	"	4.00
Corporate	1019	2 x2,	"	6.00
		Larg	er sizes made to order, special prices.	
			-	
			Blank.	
Corporation	1021	ξX 1.	each	.50
Corpulence	1022	8x 1.	**	.50
Corpulent	1023	åx å,	"	.50
Corrective	1024	1x 1.		.66%
Conducting	1025	1x 1.	"	.66%
Conduction	1026	1x 8,	"	.66%
Conductor	1027	1x 1.	"	.66%
Cone	1028	4x 1.	"	1.00
Confab	1029	4x 1.	"	1.00
Confederacy	1030	8x €.	"	1.00
Confederate	1031	\$x 1,	"	1.00
Confederating	1032	4x 4.		1.00
Confederation	1033	1 x 1.	"	1.60
Confer	1034	1 x 4.	"	1.60
Conference	1035	1 x1.	"	1.60
Confess	1036	11x1.	"	2.20
Confessedly	1037	11x11.	"	2.20
Confessing	1038	14x14.	"	4.00
Confessor	1039	2 x2,	"	6.00
			r sizes made to order, special prices.	-100

The Macallen Solid Mica Insulating Joint.

IN MALLEABLE IRON.

	*		Combination.	
Code Word. Confineless	List No.	8 1		ist Price.
		£ X ⅓,		. \$0.45
Confinement Confiner	1042	8x 1,		
Confirm	1043	8x 8,		
		$\frac{1}{2}X = \frac{1}{8}$,		60
Confirmable Confiscate	1045	½X ¼,	***************************************	
Confiscating	1046	½X 8,		
Confident	1047	½ X ½,	***************************************	
		4χ 8,		
Confide	1049	₹x ½,		
Confidence	1050	åx å,		
Confidently	1051	1 x ½,		1.45
Confiding	1052	1 x 2,	*	
Confine	1053	1 x1,		1.45
			Blank.	
Conform	1061	8v 1	each	45
Conformable	1062		"	45
Conformation		∦x ‡, ∦x ₽,		
		0 07		60
Conformed	1064	½χ ξ.	**	
Conforming	1065	½X ¼,		60
Conformist	1066	½X ₹,		60
Conformity	1067	½X ½,		60
Confiscator	1068	⁸ / ₄ X ⁸ / ₈ ,		90
Conflagration	1069	£X ½,	"	90
Conflict	1070	₹x ₹,	"	
Conflicting	1071	1 x ½,	"	1.45
Confluence	1072	1 x 4.	"	
Confluent	1073	1 x1,	**	1.45
		Electr	olier or Separable Joint.	
		Liceti	oner or Departable some.	
		1	IN MALLEABLE IRON.	
Confound	1101	∦ x ½,	each	50
Confounded	1102	8 x 1.	((50
Confounding	1103	8 x 4,		50
Confront	1104	1 X 1.	"	
	1104			66%
Confrontant		1 X 1,	"	
Confrontation				66%
Confronted	1107	½ X ½,		
Confronting	1110	4 x 1.		1.00
Confrontment	1111	4 x 4.	"	1.00
		Υ.	N COMPOSITION BRASS.	
		1.5	V COMPOSITION BRASS.	
Confuse	1081	5 v 1	éach	60
Confused	1082	8 x 1.	"	
	1083	8 x 2,	**	
Confusedly	1084	1 X 1.	**	80
Confusedness			"	
Confusing	1085	1 X 1,		
Confusion	1086	1 X 8,		
Confutable	1087	1 X 1,		
Confutation	1090	4 x 1,		. 1.20
Confute	1091	2 × 2,	"	. 1.50



Conjoin

Conjoint Conjointly Conjointness Conjugal Conjugate



No. 1141.

The Macallen Solid Mica Bracket Joint.

IN MALLEABLE IRON

				*														
~				C	ml	bina	atio	n.								-		
Code Word.	List No.			,														Price.
Confuted	1141	8 X 1/8,		h.														
Confuting	1142	§ X ¼,									 		 					.36
Congeal	1143	§ X §,									 		 		٠.		٠	.36
Congealing	1144	$\frac{1}{2} \times \frac{1}{8}$,									 	,						.50
Congelation	1145	1 X 1,	**								 		 					.50
Cangener .	1146	½ X 8,	**					1			 							.50
			_		В	lan	k.		-									
Congeneric	1151	\$ x 1.	eac	h							 		 					.36
Congenial	1152	8 X 1.																.36
Congenital	1153	8 x 8.																.36
Congest	1154	1 x 1.																.50
Congestible	1155	1 x 1.																.50
Congestion	1156	½ X 8,																.50
		1	In C	01	dP0	SIT	NCI	Br	RAS	s.								
				Co	ml	bina	atio	n.										
Congression	1121	\$ x 1.	000	ь														.40
Congruent	1122	8 X 1,		**														.40
Conically	1123	\$ X &.																.40
Conifer	1124	1 X 1.					• • •											
Coniform	1125	1 X 1.					• • •											.54
Conjecture	1126																	.54
Confectare	1120	⅓ X §,									 		 	٠				.54
					В	lan	k.											



No. 8790.

"P. & S." China Insulating Joint.

1131 & x 1, each.... 1131 \(\frac{2}{3} \) \(\frac{2}{3} \) \(\frac{1}{3} \) \(\frac{2}{3} \) \(\frac{1}{3} \) \(\frac{1}{3} \) \(\frac{2}{3} \) \(\frac{1}{3} \) \(\frac{1} \) \(\frac{1} \) \(\frac{1} \) \(\frac{1} \) \

1136 ¼ x å, "

enobite	8790	1 X 1	in.,	21	in.	diameter, each
Cenobitic	8791	1 X 1	6.6	1	44	next to wall, 21 in. diameter, each,
enotaph						4 21 4 4 4
lensor	8793	1 X 1	4.6	21	11	diameter, each
lasket						next to wall, 21 in. diameter, each,
Caspian .		4 X 1.				
lassock	8796	\$ X 1	11	3	11	" 21 " " "
Castinet	8797	8 X 8	4.4	21	+ 6	diameter, each
Castaway						next to wall, 3 in. diameter, each,
laste						4 3 1 11 11
Castellan	8800	1 X 1	-	3	61	diameter, each



Tested Fuse Wire and Ribbon.

Fuse Wire.

Code Word.	List No.	Dia. Mils.	Carry, Cap.		std. gth.	Ft.	Price per lb.
Abaisance	25113	10	i i		ches	2700	Special
Roundshoulder	20352	17	j	11	44	950	\$2.75
Roundtrade	20354	20	1	11	16	670	1.10
Roundtray	20355	23	14	14	44	510	1.05
Roup	20356	25	2	14	**	430	1.05
Rousant	20357	27	3	1 €	44	370	1.00
Rouse	20358	30	4	1 1	"	300	1.00
Rouser	20359	35	5	2	64	220	1.00
Rousing	20360	38	6	2	44	185	-85
Rousingly	20361	44	7	2	46	140	-85
Roust	20362	47	8	2	**	120	.80
Rout	20363	54	9	2	44	93	.80
Route	20364	58	10	2	44	80	.80
Routine	20365	62	12	3	44	70	.80
Rautausty	20366	68	14	3	**	60	.80
Rove	20367	70	15	3	"	52	.75
Rover	20368	73	16	3	44	49	.75
Rocing	20369	78	18	3	44	43	.75
Rovingly	20370	86	20	4	46	36	.75
Rocingness	20372	90	25	4	44	32	. 7 5
Rovingshot	20373	100	30	4	44	26	.75
Rowe	20374	110	35	4	**	22	.75
Rowable	20375	122	40	4	44	18	.75
Rowantree	20376	126	45	4	44	17	.75
Rowboat	20377	147	50	õ	44	12.5	.75
Rowdyish	20379	160	60	5	"	10.3	.70
Rowel	20380	172	70	5	44	9.0	.70
Rowen	20381	178	75	5	44	8.3	.70
Rower	20382	190	80	5	**	7.5	.70
Rowett	20383	198	90	5	44	6.7	.70
Rawleyrugg	20384	220	100	5	"	5.5	٠70

½ to 35 Amp. inclusive, on 1 lb. spools. 40 to 100 Amp. inclusive, on 2 lb. spools.

Tested Fuse Ribbon.

		Carrying				
		Capacity Amperes.	Length in ins	Size in inches.	Feet per lb	Price per ib
Rowlock	20385	50	1	.36 x .047	12.5	\$0.65
Abaiser	25114	60	4	.44 x .042	11.3	.65
Rowport	20386	75	4	.50 x .043	9.7	.65
Abalienate	25115	90	4	.66 x .045	7.0	.65
Roya	20388	100	4	38×078	7.0	-65
Abolication	25116	115	4	.44 x .092	5.2	-60
Royalet'	20389	125	4	,50 x .095	4.5	.60
Royalism	20390	150	4	.53 x .092/	4.3	.60
Royalist	20391	175	4	.66 x .095	3.3	.60
Abund	25117	190	4	.75 x .094	3.0	.60
Royalize	20392	200	4	.87 x .093	2.6	60
Abandourd	25118	225	4	1.0 x .095	2.2	.60
Royally	20393	250	41	1.0 x .113	1.8	.60
Royalty	20394	300	44	1.0 x .15	1.4	.60
Abandonce	25119	400	4 4	1.0 x .19	1.1	.60
Royne	20395	500	43	1.25 x .20	.85	.60
Abundanment	25120	600	41	1.5 x .18	75	.60

Furnished in coils of any length,

List Price.

Shawmut Tested Fuse Links.



For Rosettes.

No. 1 B Terminal. 1, 2, 3,5 Ampere. Slots & Inch, 11 inch centers. \$21.50



No. 21/2 B.

For S. M. or Edison Main or Branch Blocks.





Same Terminal as above, 25, 30, 35, 40, 50 Amperes, 24 inch centers. 50.00



No. 4 A Terminal. 60, 75, 90 Amperes Slots 4 inch, 24 inch centers 55.00



For Fuse Blocks and Switch Boards.

No.	5 A Terminal, Slots # inch, 2½ inch centers, 100, 125, 150, 175,	per 1000.
	200 amperes	
No.	6 A Terminal, Slots ½ inch, 2; inch centers, 200, 225, 250, 275	
	amperes	135.00
	300, 350, 400 amperes	165.00
	500, 600 amperes	200.00
	500 800 approprie	250.00



No. 3 A.

Prices are based upon the TERMINAL used, and not upon the carrying capacity. An additional charge will be made for links over 4 inches between centers, based upon the extra metal used and the difficulty in manufacture.

In ordering, find the exact cut of the Fuse Link required, and then specify

First, Safe carrying capacity.

Second. Terminal number, e. g., 1 B, 2½ B. etc.

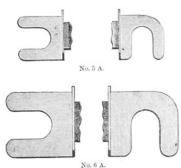
THIRD. Distance between centers of binding posts.

Note.—The fusing point of Shawmut Fuse Links is about 30 per cent, above safe carrying capacity.



Sawyer-Man Flat Lead Links.

		Dist.	between enter.	Amperes.						
Roynish	20396	13	inch.	10- 25	 					25.00
Roysterer	20397	24	66	25- 40					 	40.00
Roystercrow			66	40- 50					 	45.00
Roytelet	20399	24	66	50- 60	 				 	50.00
Roytish	20400	21	66	60-80	 			 		60.00
Rut	20401	24	66	80-125					 .,	100.00
Rubudub	20402	25	66	125 - 175						120.00
Rubuto	20403	24	,44	175 - 225	 	 		 	 	150.00



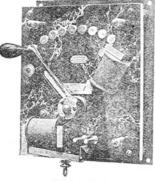
Shawmut Copper Terminals.

	List No.	Number.	Max	imum Capacity n Amperes	List Price per 1000,
Rubbuge	20404	1		10	9.20
Rubber	20405	2		20	9.40
Rubbidge	204051	2 B		30	9.40
Rubbish	20407	3		450	12.00
Rubbishly	20408	- 4		100	19.00
Rubble	20409	41 B		100	19.20
Rubblestone	20410	5		200	30.00
Rubblewall	20411	54 or 6		1200	58.00
Rubblework	20412	5 or 6 thick		410	64.00
Rubbly	20413	8		*000	120.00
Rubedinous	20414	10 C		****	160.00
Rubefurient	20415	T. H. Ry		150	20.00

Shawmut Specially Designed Fuses.

Т. Н.	RAILWAY	LINKS.	GEN	ERATOR F	USES.	ED.UNI	ERGROUN	D Fuses
Amp.	Type.	Price per 1000.	Amp.	Terminal	Price per 100.	Amp.	Terminal	Price per 100
35	Round	\$40.00	500	No. 8 A.	s30.00	600	No.51A.	\$25.00
50	44	45.00	600	44	30.00	700	11	25.00
75	64	50.00	700	44	35.00	800	11	25.00
80	'44	50.00	800	44	35.00	900	. 11	25,00
100	66	50.00	900	64	40.00	1000	- 14	25.00
100	Flat	50,00	1000	- 44	40.00	300	No.10C.	30.00
150	61	60.00		1		400	- 11	30.00
200	44	75.00				500	if	35.00
	-					600	16	40.00
GEN	ERATOR I	USES.	ED, UNI	ERGROUN	D FUSES.	700	44	40.00
						800		40,00
Amp.	Terminal	Price	Amp.	Terminal	Price	900		50.00
Amp.	Termina	per 100.	Amp.	Termina	per 100.	1000	11	50.00
100	No. 8A	s25.00	100	No.5+A.	\$15.00	1200	"	65.00
150	44	25.00	150	46	15.00			
200	- 66	25.00	200	44	18.00			
250	66	25.00	250	46	18.00			
300	14	25.00	300	- 11	20.00			
350	**	25.00	400	**	20.00			
400	- 11	25.00	500	1 11	20.00			

B Terminal, 500 Volt Fuses, 5 inch Centers, 5 to 40 amp. capacity, \$10.00 5 A " 500 " 5 " 20 to 60 " 15.00 " 15.00



20 Ampere Type.

Cutler-Hammer Rheostats.

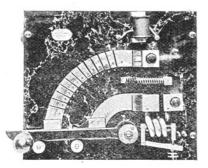
MOTOR STARTING BOXES.

With Automatic Release and Circuit Breaker.

This device is a combined Starting Box and Circuit Breaker.

Should the motor become overloaded the lever immediately flies back, inserting the resistance of the Rheostal and then opening the circuit without spark. No carbons for the final break are therefore necessary.

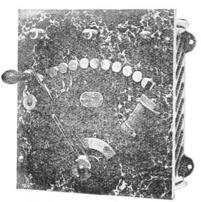
The combined device not only protects the motor from Short Circuit, Ground and Overload, but also protects the motor from interrupted current and open field circuit.



Motor Starting Box with Automatic Release.



Motor Starting Box with Magnetic Release.



Motor Starting Box with Magnetic Release.

Cutler-Hammer Rheostats.—Continued.

Motor Starting Boxes .- Continued. With Automatic Release and Circuit Breaker.

Horse Power.	125 Volts.	240 Volts.	500 Volts,
4° to 3	\$ 25.00	\$ 25.00	\$ 25.00
5	37.00	37.00	37.00
71/2	55.00	42.00	42.00
10	58.00	45.00	45.00
15	65.00	60.00	52.00
20	70.00	65.00	58.00
25	85.00	70.00	63.00
30	95.00	85.00	75.00
35	105.00	90.00	90.00
40	115.00	100.00	100.00
50	140.00	115.00	115.00
75	220.00	185.00	175.00
00	280.00	250.00	225.00
50	375.00	335.00	300.00
200	480.00	440.00	380.00

Motor Starting Boxes.

With Magnetic Release.

Absolutely fire proof; built entirely of marbleized slate, metal and asbestos

Impossible to leave the resistance in circuit and burn out the box.

Prevents injury to motor when supply of current is cut off and then suddenly turned on again.

Prevents injury to armature and commutator due to an

open field circuit. Simple durable and reliable. Only one moving part. Endorsed by the Board of Fire Underwriters.

When ordering give horse power, voltage and make of motor.

Horse Power.	125 Volts.	240 Volts.	500 Volts.
¼ to 3	\$ 15:00	\$ 15.00	\$ 15.00
5	25.00	25.00	25.00
7½	40.00	30.00	30.00
10	43.00	33.00	33.00
15	50.00	45.00	40.00
20	55.00	50.00	45.00
25	65.00	55.00	50.00
30	73.00	65.00	60,00
35	80.00	70.00	70.00
40	90.00	80.00	80.00
50	115.00	100.00	100.00
75	190.00	165.00	150.00
100	250.00	225.00	200.00
150	325.00	300.00	275.00
200	420.00	400.00	350,00

SPECIAL RHEOSTATS.

In ordering Special Rheostats the following information is

1st. The purpose for which the Rheostat is to be used.

2nd. The maxium current to be carried. 3rd. The maxium time the current will be flowing through the resistance of the Rheostat,

4th. The minimum current to be used.

5th. The total resistance to be required.

the total resistance to be required.

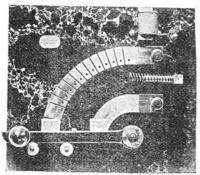
6th. The voltage of the current.

7th. The horse power or K.W. of the motor or dynamo used.

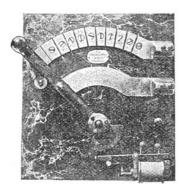
8th. The number of steps or divisions necessary on the front

of Rheostat.

When provided with the exact knowledge of just what the Rheostat is expected to do, many of the above points can be determined. By giving explicit and full information prompt results can be obtained.



Motor Starting Box, with Automatic Release. 300 Ampere Front.



Combined Motor Starting Box and Speed Regulator,

Cutler-Hammer Rheostats.—Continued.

COMBINED MOTOR STARTING BOX AND SPEED REGULATOR.

Automatic Release from Every Point.

Our Motor Speed Regulators, with Automatic Release, combine in one device all the advantages and protections afforded by our Automatic Release Motor Starters, in addition to the great convenience of a Speed Regulator.

The Automatic Release acts from every contact point, firmly locking the arm in position at any desired speed, and upon failure of the current, or the opening of the field circuit, automatically releases the arm, permitting it to return to the full off position.

In ordering give Horse-power, Voltage, Normal Speed, and make of Motor. Also, lowest speed desired and kind of machinery attached to the motor. Prices are based on 50 per cent. reduction of speed at full load

	120 V	OLTS.	220 V	OLTS.	500 VOLTS.				
H. P	With Autom'tic Release.	Without Autom'tic Release.	With Autom'tic Release.	Without Autom'tic Release.	With Autom'tic Release.	Without Autom'tic Release.			
1/4	s 22,00	s 15.00	\$ 22.00	\$ 15.00	\$ 22.00	s 15.00			
1/2	28,00	18.00	28,00	18.00	28.00	18.00			
1	35.00	22,00	35,00	22.00	35.00	22.00			
9.	42.00	30.00	42.00	30,00	42.00	30,00			
3	52.00	40.00	52.00	40.00	52.00	40,00			
5	67.00	55.00	67.00	55.00	67.00	55.00			
3 5 7½	85.00	70.00	85.00	70.00	85.00	70,00			
10	100.00	85.00	100.00	85.00	100.00	85.00			
15	125.00	110 00	120,00	105.00	120.00	105.00			
20	155,00	135.00	145.00	125.00	145.00	125.00			
25	185.00	160.00	175.00	150.00	175.00	150,00			
30	215.00	185.00	205.00	180.00	200.00	175.00			
35	250 00	210.00	240.00	205.00	235.00	200.00			
40	295.00	245.00	285.00	235.00	275.00	225.00			
50	360.00	300.00	340.00	290.00	325.00	275.00			
75	500.00	435.00	450.00	400.00	425.00	375.00			

Reversible Controllers.

For either Series or Shunt Wound Motors.

Adapted for Traveling Cranes, Locomotive Turn Tables, Conveyors Swinging Bridges, Rolling Mills, Hoists, Unloading Vessels,

and all kinds of Electric work where the Motor is started and stopped, and its direction of rotation is changed a great many times a day

Renewable Carbon Brushes and Segments, Non-Sparkling, Compact and Indestructible.

7 н. р.		VOLTS.		DIMENSIONS OVER ALL IN INCHES.			Weight.
	110	220	500	Height.	Width.	Depth.	lbs.
3	\$120.00	\$120.00	\$120.00	30	16	14	150
5	150.00	150.00	150.00	30	16	16	175
71	180.00	180.00	180,00	30	16	18	200
10	200.00	200.00	200.00	36	18	18	250
15	220.00	220.00	220.00	36	18	18	275
20 25	240.00	230.00	230.00	40	18	18	300
25	250.00	240 00	240,00	40	18	18	300
30	260.00	250.00	250,00	40	20	18	350
40	280.00	260.00	260.00	40	20	18	350
50	300.00	275.00	275 00	40	20	18	350
75.	360.00	300.00	300.00	40	22	22	400

Depth includes projection of handle.

These Controllers are designed to start and stop a Motor a great many times a day, and to regulate the speed of the motor during a time not to exceed a minute or two. They are not designed to regulate the speed of a Motor which runs continuously for hours, but will not burn out even if abused to this extent.

In ordering always state whether a Controller is desired for a Shunt or Series wound Motor.

Carpenter Enamel Rheostats.

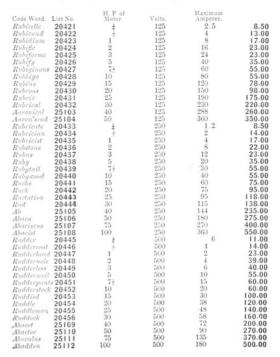


Small Motor Regulating Rheostats, 1-16 to 1-6 H. P.

Code Word.	List No.	Size of Motor in H. P	Volts.	Capacity in Amp. Continu- ously.	List Price Each.
Aaronic	25102	2.	125	.7	\$4.50
Rubelite	20416	12	125	1.	3.70
Rubeola	20417	*	125	1.5	3.70
Rubescence	20418	į.	125	2.	3.70
Rubescent	20419	i i	250	.5	4.50
Rubican	20420	16	250	75	4.50



These Rheostats are intended for regulating the speed of motors down to one-half of the full speed under full torque, and will stand the "maximum amperes" continuously with the full switch lever on any contact.





No. 20416.

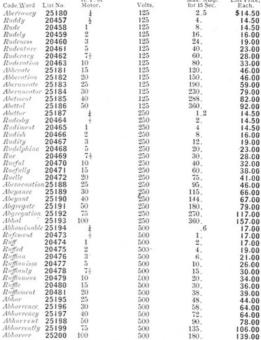


No. 20421.

Carpenter Enamel Rheostats.—(Continued.) Motor Starting Rheostats.

With "No Voltage" Automatic Release. Protecting Motor in case of Failure of Current from any cause.







Provided with Safety Spring Switch	Provided	with	Safety	Spring	Switch
------------------------------------	----------	------	--------	--------	--------

			"SS" Type.		
Code Word.	List No.	H. P. of Motor.	Volts.	Max. Amp. for 15 Sec.	List Price, Each.
Abhorribe	25201	1	125	2.5	7.00
Ruffleless	20482	+	125	4.	7.00
Ruffler	20483	1	125	8.	8.50
Rufous	20484	2 3 5	125	16.	10.00
Ruft	20485	3	125	24.	13.00
Rufterhood	20486	5	125	40.	17.00
Rug	20487	7±	125	60.	22.00
Rugate	20488	10	125	80.	27.00
Rugged	20489	15	125	120.	40.00
Ruggedly	20490	20	125	150.	40.00
Ruggedness	20491	25	125	190.	52.00
Rugging	20492	30	125	230.	72.00
Abhorring	25202	40	125	288.	75.00
Abib	25203	50	125	360.	85.00



No. 25120.



No. 25201.

Spring Starters-(Continued.)

Motor Starting Rheostats.

Provided with Safety Spring Switch.



No. 20493.

	Prov		Safety Spring	Switch.	
		H. P. of		Max. Amp.	List Price Each.
Code Word	List No	Motor	250	for 15 Sec. 1,2	\$ 7.00
1bundum	25121	à.		2.	7.00
Rugguon	20493	4	250	4.	8.50
Ruggodned	20494	1	250	8	10.00
Raggg	20495	2	250		13.00
Rugin	20496	3	250	12.	17.00
Rugine	20497	5	250	20.	
Rugose	20498	74	250	30.	22.00
Rugulose	20499	10	250	40.	26.00
Ruin	20500	15	250	60.	32.00
Ruinnble	20501	20	250	75.	35.00
Ruinate	20502	25	250	95	40.00
Raination	20503	30	250	115	60.00
Abianet	25122	40	250	144	60.00
Abunga	25123	50	250	180	72.00
.1bannation	25124	75	250	270	110.00
Abanition	25125	100	250	360.	150,00
Abaptista	25126	4	500	6	9.00
Ruiner	20504	4	500	1.	9.00
Ruinform	20505	1	500	2.	9.00
Ruinous	20506	2	500	4.	11.00
Ruinonsly	20507	3	500	6.	13.00
Ruinousne	×× 20508	5	500	10.	18.00
Rukh	20509	74	500	15.	22.00
Ruluble	20510	10	500	20.	26.00
Rule	20511	15	500	30.	28.00
Ruleless	20512	20	500	38.	31.00
Ruler	20513	25	500	48.	36.00
Ruting	20514	30	500	58.	56.00
Abaptiston		40	500	72.	56.00
Abare	25128	50	500	90.	70.00
Abarticala		75	500	135.	97.00
Abas	25130	100	500	180.	130.00



No. 20515.

Leoard Universal Automatic Rheostat.

With "Overload" and "No Voltage" Release.

		"DI	." Type.		
Code Word.	List No.	H. P. of Motor	Volts	Max, Amp. for 15 Sec.	List Price Each.
Abashment	25131	1	125	2.5	\$24.00
Rulingly	20515	4	125	4.	24.00
Rullichies	20516	1	125	8.	24.00
Ruly	20517	2	125	16.	24.00
Rum	20518	3	125	24	24.00
Rumble	20519	5	125	40.	29.00
Rumbler	20520	74	125	60.	35.00
Rumblingly	20521	10	125	80.	40.00
Rumbud	20522	15	125	120.	55.00
Rumen	20523	20	125	150.	60.00
Abassi	25132	25	125	190.	70.00
Abassis	25133	30	125	230.	111.00
Abator	25134	40	125	288.	126.00
Abattis	25135	50	125	360.	172.00

"D L" Type-(Continued.)

Leonard Universal Automatic Rheostat.



Code Word	List No	H. P of Motor	Volts	Max. Amp. for 15 Sec.	List Price Each.
Abatised	25136	1	250	1.2	\$24.00
Ruminal	20528	1	250	2	24.00
Ruminant	20529	12	250	4	24.00
Ruminate	20539	9	250	8	24.00
Rumination		2 3 5	250	12	24.00
Ruminator	20531	5	250	20	29.00
Ruminator	20532	71	250	30	35.00
	20533	10	250	40	40.00
Rumkin		15	250	60	45.00
Rummage	20535	20	250	75	50.00
Abatude	25137		250	95	
Abature	25138	25	250	115	55.00
Abowed	25139	30			75.00
Abbatial	25140	40	250	144	85.00
Abbatical	25141	50	250	180	90.00
Abba	25142	75	250	270	185.00
Abatship	25143	100	250	360	230.00
Rumney	20539	4	500	. 6	26.00
Rumnous	20540		500	1	26.00
Rumorer	20541	1	500	2	26.00
Rumorous	20542	2 3	500	4	26.00
Rump	20543		500	6	27.00
Rumper	20544	5	560	10	32.00
Rumpfed	20545	7±	500	15	36.00
Rumple	20546	10	500	20	40.00
Rumpless	20547	15	500	30	45.00
Abbreviate	25144	20	500	38	46.00
Abbreviation		25	500	48	50.00
Abbreviator	25146	30	500	58	70.00
Abbreviator	25147	40	500	72	75.00
Abbreviatur	25148	50	500	90	88.00
Abb-wool	25149	75	500	135	135.00
Abdal	25150	100	500	180	180.00



No. 20551.

Reversing Controllers.

Reversing Controllers, for Reversing Direction of Rotation and for Controlling Speed of Motors, "RR" Type.

One of the most difficult problems in connection with electric motors, is to secure a perfect device for operating a motor at a variable speed at will, and reversing its direction of rotation.

We handle a full line of reversing Rheostats for motors, from ½ H. P. to 100 H P., and of any voltage. Also a complete line of field reversing Rheostats We make a specialty of such Rheostats for traveling crane service and elevator service, and can ordinarily make prompt shipment from stock for usual sizes.

These controllers are provided with quick break devices, in connection with controlling switch, so that when bringing the motor to rest from either direction of rotation the are is broken instantly.

Code Word	List No.	H. P. of Motor.	Volts.	Max. Amp for 15 Sec	List Price Each,
Abderian	25151	2	125	16	\$85.00
Abderite	25152	3	125	24	85.00
Abdert	25153	5	125	40	90.00
Abdicant	25154	7±	125	60	105.00
Abdication	25155	10	125	80	105.00
Abdicative	25156	15	125	120	260.00
Abditory	25157	20	125	150	280.00
Abdomen	25158	25	125	190	300.00
Abdominal	25159	30	125	230	420.00
Abdominop	25160	40	125	288	460.00
Abdominou	25161	50	125	360	500.00

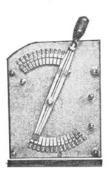


"RR" Type .-- Continued. Reversing Controllers.

Code Word.	List No.	H. P. of Motor.	Volts,	Max. Amp. for 15 Sec.	List Price, Each.
Abidance	25204	2	250	8.	\$85.00
Abider	25205	3	250	12.	85.00
Runer	20559	5	250	20.	90.00
Rung	20560	74	250	30.	105.00
Runghead	20561	10	250	40.	105.00
Runic	20562	15	250	60.	125.00
Runlet	20563	20	250	75.	145.00
Runnel	20564	25	250	95.	300.00
Abidingly	25206	30	250	115.	320.00
Abietic	25207	40	250	144.	360.00
Abigail	25208	50	250	180.	400.00
Abiliment	25209	75	250	270.	600.00
Abintestate		100	250	360.	700.00
Abirritatio		2	500	4.	105.00
Abjudicate	25212	3	500	6.	105.00
Runnet	20566	3 5	500	10.	105.00
Running	20567	74	500	15.	105.00
Runnion	20568	10	500	20.	105.00
Runt	20569	15	500	30.	125.00
Rupee	20570	20	500	38.	145.00
Rupellary	20571	25	500	48.	165.00
Abiudicatio		30	500	58.	185.00
Abjugate	25214	40	500	72.	225.00
Abjunctive	25215	50	500	90.	265.00
Abjuration		75	500	135.	525.00
Abjuratory		100	500	180.	625.00







Ventilating=Fan Speed Controllers. Reducing Speed of Fan and Series Wound Autor to Half-Full Speed. "SV" Round Type. "V" Square Type. Max. Amp. Max. Amp.

					at full	
		H. P. of			Speed of	List Pric
Code Word.	List No.	Motor.	Volts.	Type.	Fan;	Each.
Abjurement	25218	1/2	125	SV	1.	\$3.70
Abjurer	25219	18	125	SV	1 5	3.70
Ablactate	25220	1/6	125	SV	2.	3.70
Ablactation	25221	1,6	125	V	1.5	7.00
Ablacquente		1/2	125	v	2.5	7.00
Ablacqueuto		1/2	125	v	4.	7.00
Able-bodied	25224	1	125	V	8.	11.00
Ablegate	25225	2	125	v	16.	15.00
Ablegation	25226	3	125	v	24.	22.00
Ablen	25227	5	125	v	40.	38.00
Ablet	25228	71/2	125	v	60.	40.00
Ablenese	25229	10	125	v	80.	70.00
Ablepsy	25230	15	125	Ý	120.	90.00
Abler	25231	1/8	250	sv	.5	4.50
Ablest	25232	1/6	250	SV	.75	4.50
	25232	16	250	V	.5	10.00
Abligate	25234	28	250	v	1.2	8.00
Abligation		1/4	250	v	2	9.00
Abligarition Ablocate	25236	1/2	250	v	4.	11.00
		2	250	v	8	15.00
Ablocation	25237	3	250	v	12	22.00
-1bloom	25238	5	250	v	20.	38.00
Ablude	25239		250	v	30.	40.00
Abluent	25240	71/2		v	40.	55.00
Ablutionary		10	250			72.00
Abluvion	25242	15	250	V	60.	
Abnegation	25243	74	500	V	.6	18.00
Abnegative	25244	1/2	500	V	1.	12.00
Abnegator	25245	1	500	V	2.	12.00
Abnet	25246	2	500	V	4.	14.00
Abnodute	25247	3	500	V	6.	23.00
Abnodation	25248	5	500	V	10.	38.00
Abnormous	25249	71/2	500	V	15.	40.00
Abodance	25250	10	500	V	20.	55.00
Abodement	25251	15	500	V	30.	72.00

No. 20593.

125 Volt Round Type, Field Rheostats.

For Front of Board.

Code Word.	List No.	Max. Amp. 1st Step.		Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam.	List Price, Each.
Rusher	20593	.5	250.	300.	24	.227	8	\$12.50
Rushgrass	20594	.62	200.	240.	24	.284	8	12.50
Rushiness	20595	.75	166.	200.	24	.341	8	12.50
Rushingly	20596	1.	125.	150.	24	.454	8	12.50
Rushlight	20597	1.25	100.	120.	24	.568	8	12.50
Rushlike	20598	1.5	83.	100.	24	.683	8	12.50
Rushring	20599	2.	62.5	75.	24	.91	8	12.50
Rushy	20600	2.5	50.	60.	24	1.13	8	12.50
Rusk	20601	3.	42.	50.	24	1.35	8	12.50
Rusma	20602	4.	31.	37.5	33	1.82	10	14.25
Russ	20603	5.	25.	30.	44	2.27	12	18.50
Russett	20604	6.	21.	25.	44	2.7	12	18.50
Russetting	20605	8.	15.6	18.75	60	3.64	15	24.50
Russety	20606	10.	12.5	15.	60	3.33	15	24.50
Russialeat	her 20607	12.5	10.	12.	60	5.7	15	39.00
Russia	20608	16.	7.8	9.3	60.	7.3	15	39.00
Russian	20609	20.	-6.2	7.5	60	9.1	15	56.00
Rust	20610	25	- 5	65	600	11 36	15	56.00



No. 20609.



No. 20611.

For Back of Board.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which (Rheostat F is well suited.	Ohms of Cheostat	No. of Steps	Ampere Capacity of Last Step.	Diam.	List Price, Each,
Rustful	20611	.5	250.	300.	24	.227	8	\$ 25.00
Rustic	20612	.62	200.	240.	24	.284	8	25.00
Rustical	20613	.75	166.	200.	24	.341	8	25.00
Rustically	20614	1.	125.	150.	24	.454	8	25.00
Rusticate	20615	1.2	100.	120.	24	.568	8	25.0n
Rustication	20616	1.5	83.	100.	24	.683	8	25.00
Rusticity	20617	2.	62.5	75.	24	.91	8	25.00
Rusting	20618	2.5	50.	60.	24	1.13	8	25.00
Rustiness	20619	3.	42.	50.	24	1.35	8	25.00
Rustjoint	20620	4.	31.	37.5	33	1.82	10	27.50
Rustle	20621	5.	25.	30.	44	2.27	12	31.50
Rustler	20622	6.	21.	25.	44	2.7	12	31.50
Rusty	20623	8.	15.6	18.75	60	3.64	15	37.00
Ru	20624	10.	12.5	15.	60	3.33	15	37.00
Rutabaga	20625	12.5	10.	12.	60	5.7	15	48.00
Rutaceous	20626	16.	7.8	9.3	60	7.3	15	48.00
Ruth	20627	20.	6.2	7.5	60	9.1	15	66.00
Ruthenium	20628	25.	5.	6.	60	11,36	15	66.00



No. 20629.

No. 20637.



No. 20639.



No. 20641.

Carpenter Enamel Rheostats.—(Continued.) 250 Volt Round Type, Field Rheostats.

For Front of Board.

Fig. 8, 9 and 10.

Code Word.	List No.	Max. Amp. 1st Step.		Ohins of Rheostat		Ampere Capacity of Last Step.	Diam.	List l'rice, Each.
Ruthful	20629	1	250	300	44	.454	12	\$18.50
Ruthfully	20630	1.25	200	210.	44	.568	12	18.50
Rathless	20631	1.5	166	200.	44	,682	12	18.50
Ratidosis	20632	2.	125	150.	44	909	12	18.50
Rutil	20633	2.5	100	120.	44	1.136	12	18.50
Rutilinat	20634	3	83	100.	44	1.366	12	18.50
Rutilates	20635	4	62	75.	60	1.82	15	24.50
Ratile '	20636	5	50	60	60	2.27	15	24.50
Rutter	20637	6.25	40	48.5	60	2.84	15	39.00
Rutterkin	20638	8.	31	37	60	3.65	15	39.00
Ruttier	20639	10.	25	30.	60	4.54	15	56.00
Ruttish	20640	12.5	20	24	60	5.7	15	56.00

For Back of Board.

Code Word.	List No.	Max. Amp. Ist Step.	Rheostat	Ohms of Rheostat	No. of Steps	Ampere Capacity of Last Step.	Diam, ins.	List Price. Each.
Ruttinhness	20641	1.	250	300	44	.454	12	\$31.50
Rattle	20642	1.25	200	240	44	.568	12	31.50
Rutty	20643	1.5	166	200.	44	682	12	31.50
Ryal	20644	2.	125	150.	44	.909	12	31.50
Ryder	20645	2.5	100	120.	44	1.136	12	31.50
Rye	20646	3	83	100.	44	1.366	12	31.50
Rgegrass	20647	4.	62	75.	60	1.82	15	37.00
Ryachops	20648	5.	50	60.	60	2.27	15	37.00
Rynd	20649	6.25	40	48.	60	2.84	15	48.00
Ryat	20650	8.	31	37.5	60	3.65	15	48.00
Ryth	20651	10.	25	30.	60	4.54	15	66.00
Rytma	20652	12.5	20	24.	60	5.7	15	66.00

500 Volt Round Type, Field Rheostats.

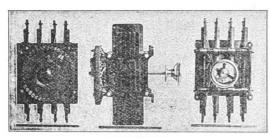
Front of Board.

Code Word.	List No.	Max. Amp. 1st Step.	Rheostat	Ohms of Kheostat	No. of Steps	Ampere Capacity of Last Step.	Diam.	List Price, Each,
Badah	20653	1.25	400	480	44	.568	12	\$18.50
Saba	20654	1.5	333	400	44	682	12	18.50
Sabadilla	20655	2	250	300	-60	.909	15	24.50
Sabacan	20656	2.5	200	240	60	1.14	15	24.50
Sabacanism	20657	3.	166	200	60	1.36	15	39.00
Sabaism	20658	4.	125	150	60	1.82	15	39.00
Sabitl	20659	5.	100	120	60	2.27	15	56.00
Saboath	20660	6.25	80	96	60	2.84	15	56.00

500 Volt Round Type, Field Rheostats.

For Back of Board.

Code Word.	List No.	Max. Amp. 1st Step.	Field to which Rheostat is well suited.	Ohms of Klieostat	No. of Steps.	Ampere Capacity of Last Step.	Diam.	List Price, Each.
Subasia	20661	1 25	400	480	44	.568	12	\$31.50
Subbut	20662	1.5	333	400	44	.682	12	31.50
Sabbatarian	20663	2.	250	300	60	909	15	37.00
Sabatia	20664	2.5	200	240	60	1.14	15	37.00
Subbutic	20665	3.	166	200	60	1.36	15	48.00
Sabbatism	20666	4.	125	150	60	1.82	15	48.00
Sabbatous	20667	5.	100	120	60	2.25	15	66.00
Sabbine	20668	6.25	80	96	60	2.84	15	66.00



Field Rheostats of Large Capacity.

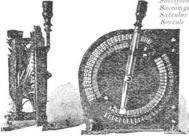
For Railway and Large Incandescent Lighting Generators.

No.	9/	oner		07	170	٠
110.	44	σ	10	64	n	£

20104.			Ohms o	f		Ampere		
Code Word.	List No.	Max. Amp. 1st Step.	to which Rheostat	Ohms of Rheostat	No. of Steps	Capacity of Last Step.	Volta.	List Price. Each.
Sabeau	20669	8.	18.7	22.5	80	3.6	150	\$ 70.00
Subeism	20670	10.	15.	18.	80	4.5	66	70.00
Sabella	20671	12.	12.5	15.	80	5.4	66	84.00
Sabellana	20672	16.	9.4	11.2	80	7.2	66	84.00
Sabellian	20673	20.	7.5	9.	80	9.	44	84.00
Suber	20674	24.	6.2	7.5	80	10.8	66	98.00
Sabian	20675	32.	4.7	5.6	80	14.4	66	112.00
Sabianism	20676	40.	3.7	4.5	80	18.	4.6	127.00
Sabine	20677	48.	3.1	3.8	80	21.6	66	156.00
Suble	20678	64.	2.3	2.8	80	28.8	66	184.00
Sublemouse	20679	80.	1.9	2.2	80	36	66	200.00
Sabliere	20680	100.	1.5	1.8	80	45.	64	230.00
Sabot -	20681	128.	1.2	1.4	80	57.6	66	315.00
Sabulous	20682	4.	75.	90.	80	1.8	300	70.00
Sac	20683	5.	60.	72.	90	2.2	44	70.00
Sacar	20684	6.	50.	60.	80	2.7	44	84.00
Saccade	20685	8.	37.5	45.	80	3.6	"	84.00
Succute	20686	10.	30.	36.	80	4.5	44	84.00
Saccharic	20687	12.	25.	30.	80	5.5	66	98.00
Saccharifou	× 20688	16.	18.7	22.5	80	7.2	66	112.00
Saccharify	20689	20	15.	18.	80	9.0	46	112.00
Saccharilla	20690	24.	12.5	15.	80	11.0	66	142.00
Saccharimet		32.	9.4	11.2	80	14.4	44	170.00

For Railway Generators.

Code Word, Saecharine Saecharie Saecharoid Saecharoide Saecharmete Saecholuctai Saecholuctai	20692 20693 20694 d 20695 cr20696 20697 de 20698 20699	2 5 3 4 5 6 8 10	Field to which Rheostai is well Suited. 300 240 200 150 120 100 75 60	Ohms of Rheostat. 360. 288 240 180 144 120 90 72	80 80 80 80 80 80 80	Ampere Capacity of Last Step. 91 1.13 1.36 1.81 2.27 2.72 3.63 4.54	Válts 600 600 600 600 600 600 600	List Price Each 70.00 84.00 84.00 84.00 98.00
		10	60	72	80			
Sacchulmie	20700		50.	60	80	5.45	600	142.00
Sacciform	20701	16	37 5	45	80	7.26	600	170.00
Saccomys	20702		30	36	80	9.09	600	170.00
Saccular Saccule	20703 20704		24. 18.75	28 8 22 5	80 80	11 36 14.54	600	200.00 285.00
Miller	20704	04	10.10	22 17	00	14.04	1100	-00



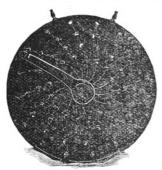
No. 20705.

Theatre Dimmers.

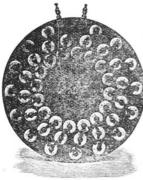
It is safe as regards fire risk, is self-contained, and is shipped complete from factory ready to set up on the stage and connect the two circuit wires to it.

Dimensions (Inches Over All)

			of 16 C. 00-120 Vol Watt Lan Sontrolled	Step	Max Amper First Step	SE		n position in cut			
国国际			Watt Contro	to	× 55	sts.	Horiz		'ertie'l	Appr	
Code Word	List No	Туре	ž s	No	N. E.	Max. / Last	Along Pivot Axis	Across Pivot Axis. Diam	Across Pivot Axis. Diam.	We	List Price Each
Aboding	25252	SD	1	4	5	1	1+	5	5	11	\$ 4.50
Abolete	25253	66	2	4	1	2	15	5	5	15	4.50
Abolis	25254	++	3	4	1.5	3	1 +	5	5	14	4.50
Abolishable	25255	63	6	9	3	- 6	34	51	54	3	9.50
Abolishment	25256	4.6	12	13	6	12	3+	7	7	5	11.00
Abolishism	25257	66	15	16	7.5	15	4	9	9	8	14.50
Abolitionism	25258	44	20	16	10.	2	4	9	9	8	14.50
Abolitionist	25259	44	25	18	12 5	2.5	4	11	11	16	19.00
Abolitionize	25260	**	30	18	15	3	4	11	11	16	19.00
Abolla	25261	6.4	40	22	20.	4.	5	14	14	30	27.00
Aboma	25262	"	50	22	25	5.	5	14	14	30	27.00
Abomasum	25263	BD	20- 50	50	25	5	6	18	36	87	40.00
Abomasus	25264	66	30- 75	50	37.5	7 5	6	18	36	87	40.00
Abominable	25265	4.4	40-100	50	50	10.	6	18	36	87	45.00
Abominable	25266	6.6	50-125	50)	62.5	12.5	6	18	36	87	50.00
Abomination	25267	61	60-150	50	75	15.	6	18	36	87	50.00
Aboon	25268	44		50	87.5		10	18		170	80.00
Abord	25269	44	80-200	50	100.	20.	10	18		170	85.00
Aborsive	25270	4 .	90-225	50	112.5	22.5	10	18		170	90.00
About	25273	4.4	100 - 250	50		25.	10	18		170	95.00
Above-board	25274	16	110-275	50		27.5	10	18		170	100.00
Above-cited	25275	44	120 - 300	.50	150.	30.	10	18	36	170	110.00
With Ir	terlock	ing	Switches	5.	"IBD	" Ту	pe.	100-12	5 Vol	t La	mps.
Above-deck	25276	**	20- 50	50	25	5	8	18	44	112	65.00
Above-said	25277	66	30- 75	50	37.5	7.5	8	18	44 1	112	65.00
Abraid	25278	64	40-100	50	50.	10	8	18	44 1	112	70.00
Abraum	25279	44	50-125	50	62.5	12.5	8	18	44 1	12	75.00
Abraxas	25280	44	60-150	50	75.	15.	8	18	44 1	12	75.00
Abray	25281	**	70-175	50	87.5	17.5	12	18	44 1	95	105.00
Abrenounce	25282	66		50	100.	20.	12	18	44 1	95	110.00
Abricock	25283	66	90-225	50	112.5	22.5	12	18	44 1	95	115.00
Abroach	25284	64		50	125.	25.	12	18		95	120.00
Abrogation	25285	66		50	137.5	27.5	12	18	44 1	95	125.00
Abrood	25286	66	120-300	50	150.	30	12	18	44 1	05	135.00



[Front view.]



[Back view.]

American "Universal" Enamel Field Rheostats.

The "Universal" rheostat is compact, fire proof, and meets all the requirements of underwriters and municipal inspectors.

The most important feature gained is by having each step of resistance independent, detachable and of small area. Each section of the resistance is made up of a small steel enamelled disc, the resistance being imbedded in the enamel and having copper strip terminals arranged so they are easily connected in series, one disc with another, as shown in the illustration of the back of the plate. Each disc has a hole in its centre which coincides with one on the plate when mounted, through which a flat headed bolt is passed from the front of the plate under the nut of which, when screwed in place, the terminals are clamped, the flat head making the contact point on the front to engage the usual movable arm.

As every step of the "Universal" is removable it is obvious that within certain limits numerous combinations of resistance sections may be made on any one plate. It is only necessary for us to define the limits of each size of plates, leaving you to indicate just what you want, instead of submitting an arbitray list to which you must conform. To fill orders promptly we have a quanity of a few sizes of plates ready for the resistance and a complete stock of the resistance required, and assemble them to order. When we know what you want and it is within the limits of our lists we can ship on demand.

For convenience in ordering, the following tables define the limits of each size.

All are made for mounting on front or back of board, as ordered, and the same template for drilling the board answers for all sizes referred to in this catalogue, thereby avoiding the chance of having holes drilled wrong, due to any mistake in ordering.

For 550 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat.	Minimum Ohms in Field. on 550 Volts, required to keep Amperes within limit stated in column 1.	
1.	600	540	Diameter of Plate
1.25	574	432	
1.5	528	384	
1.75	400	310	
2.	315	272	
2.25	229	241	

Double Plates:

2.5	287	216 .	
3.	264	192	Diameter of Plate 15 inches
3.5	200	155	No. of Steps
4.	158	136	Price Back of Board 60.00
4.5	115	121	THE PACK OF POMICE 00,00

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shunt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

American "Universal" Enamel Field Rheostats.

For 125 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat	Minimum Ohms in Field on 125 Volts, required to keep Amperes within limit stated in column 1.	
1. 25 1. 5 1. 75 2. 25 2. 5 2. 75 3. 5 4.	250 244 231 206 184 160 134 101 79 47.6 32.7	115 92 77 67 59 53 48 43 40 34 30.4	Diameter of Plate
1.5 2.5 2.5 3 3.5 4 4 5 5.	310 291 244 195 140 95 70 44.7 28.5	115 77 59 48 40 34 30 4 27 24 5	Diameter of Plate 10½ inches No. of Steps
1 2 3 4 5. 6	450 384 273 162 56 26.5 20.2	115 59 40 30.4 24.5 19.7 17.5	Diameter of Plate. 12 inches No, of steps 45 Price Front of Board \$22.00 Price Back of Board 31 00
1. 3 5. 7. 8. 9. 10.	600 423 182 38.8 24.5 17.3 14.5 11.4	115 40 24.5 17.5 15.6 14 12.4 11.5	Diameter of Plate 15 inches No. of steps

Double Plates.

12 5	13 3	9.8	Diameter of Plate
14	t0.1	8.7	
12.5	35.	9.8	Diameter of Plate
14	19.4	8.7	
16.	12.3	7.7	
18.	8.7	6.9	
20.	7.3	6.1	
21.	5.7	5.7	

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shaut field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

American "Universal" Enamel Field Rheostats.

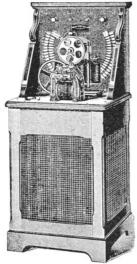
For 250 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat.	Minimum Ohms in Field. on 250 Volts, required to keep Amperes within limit stated in column 1.	
1,	250	240	
1.25	195	192	
1.5	178	167 -	Diameter of Plate9 inches No. of Steps25
1.75	161	139	Price Front of Board\$15.00 Price Back of Board26.00
2.	136	122	Trice back of Board, Bo.oo
2.25	103	108	
1.	310	240	
1.5	238	167	Diameter of Plate10½ inches No. of Steps31
2.	186	122	No. of Steps
2.5	114	98	Tree back of family 21.00
1.	450	240	,
2.	317	122	Diameter of Plate12 inches No. of steps45
3.	145	82	Price Front of Board. \$22.00 Price Back of Board. 31.00
4.	59	61	Title Dack of Bould 91.00
1.	600	240	
2.	467	122	Diameter of Plate 15 inches
3.	238	82	No. of steps
4.	99	61	Price Back of Board 37.00
5 .	48	49	

Double Plates.

6 8	73. 29.5	41 30.5	Diameter of Plate. 12 inches No. of Steps. 45 Price Front of Board. \$40.00 Price Back of Board. 49.00
6. 8. 10.	119 49.2 24.	41. 30.5 24.5	Diameter of Plate. 15 inches No. of Steps

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shurt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

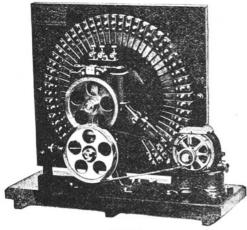


Controller and Rheostat.

Automatic Pressure Controller.

The Controller automatically builds up the machine as soon as the Armature begins to revolve, and keeps the pressure constant without the slightest variation, under all loads, and in spite of rapid changes in speed. The Controller saves time and insures a steady light and long life of the lamps.

List No.		List Price. Each.
25060	Controller in Cabinet with Rheostat	200.00
25061	Controller in Cabinet without Rheostat	150.00
25062	Motor and Rheostat for regulating speed, for use with above, extra	50.00
25063	For currents above 20 amperes and up to 100 amperes, extra	50.00
25064	Potential Indicator, direct current	40.00
25065	Potential Indicator, alternating current	50.00



Patented.

Controller Head.

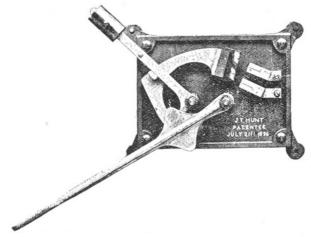
This is designed for use with rheostat ordinarily supplied with dynamo or power generator.

Arranged with pulley to be driven by countershaft or motor as shown.

25066 Controller Head with Pulley ... 100.00

Automatic Switches for Electric Motors.

Specially Adapted for Operating Electric Pumps.



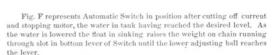
The above cut represents switch for automatically starting and stopping electric motors (Series wound).

This Switch is for motors not exceeding half horse power.

Mounted on plain state base in from frame, with ununished metal parts	. \$12.00
Mounted on marbleized slate with japanned iron frame, all metal parts highly polishe	1 15.00
Tinned copper ball float with 2 pulleys, 10 feet brass chain, weight and adjusting ball	3
complete for the above	. 3.50

Separate Parts.

Tinned Copper Ball Float	1.50
Brass Chain, per foot	.10
Japanned Iron Pulleys, each,	.25
Brass Box with Adjustable Weights	.75
Adjusting Balls, each	.10



In lifting it gradually raises the top lever until it reaches a vertical position.

The weight on this lever then carries it over by gravity, causing it to strike the cam and make contact and start motor and pump.

Any desired depth of water can be maintained in the tank by altering distance between the adjusting balls on chain running through the slot of switch lever

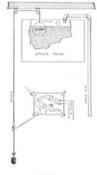
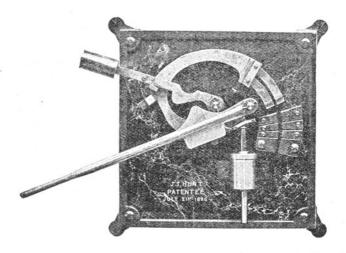


Fig. F

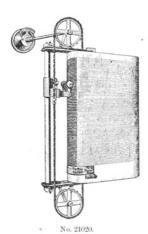
Automatic Switches for Electric Motors—(Continued)



The above cut represents Switch for automatically starting and stopping Electric Motors up to and including 5 H. P. Arranged to allow the current to gradually enter through resist ance, preventing undue sparking at commutator at time of starting motor, thus taking the place of a starting box or rheostat as usually operated by hand.

This switch can be readily adjusted so that the time taken to turn on full current can be varied from 5 to 30 seconds.

	Price List.		
		Plain	Marbleized Slat with Metal Part highly Polished
1	н. Р	\$50.00	\$55.00
2	"	58.00	63.00
3	"	65.00	70.00
4	"	72.00	77.00
5	"	80.00	85.00
	nned copper ball float, 2 pulleys, 10 feet brass chain, we balls, complete		
	balls, complete		4.50
Ti	Separate Parts.		4.50
Ti Br	Separate Parts. mned Copper Ball Float		4.50 2.50
Ti Br Ja	Separate Parts.		2.50 .15 .40



Adjustable Rheostats.

This Rheostat is simple in construction, reliable in operation, and low in cost. It is perfectly fire-proof throughout, only iron and asbestos being used in its construction. The resistance wire is wound upon an asbestos covered wrought iron drum and over the wire is spread a layer of fire-proof cement.

The drums are made both round and elliptical in shape and offer a large radiating surface which insures a cool and uniform action.

The contact with the resistance wire in the drum is made by a slide carrying a number of rollers, thereby insuring good contact at several points and avoiding any heating.

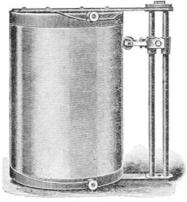
Owing to the form of the shell an exceedingly delicate graduation of resistance is obtained, and moreover the drum occupies but little space in width and is, therefore well adapted for use upon Station Switchboards.

These Rheostats can be operated directly or by mech anism connecting to the front of the Board.

Specify voltage when ordering

Saltspring	21016	For	1/2	K. W.	Dynamos								c	 \$20.00
Sultwater	21017	64	3	.66	66									 20.00
Saltwork	21018	66	12	66	66			. ,			į.	 		22.00
Saltwort	21019	66	15.	66	66									 22.00
Salty	21020	44	17	66	44							 		 22.00
Salubrious	21021	44	20	44	66									24.00
Salubriously	21022	"	25	66	44									24.00
Salubri	21023	66	30	66	44					٠,	r	 		 24.00
Salubrity	21024	66	40	44	44							 ٠.		 24.00
Salutarily	21025	66	50	66	44							 		 26.00
Salutariness	21026	41	60	44	44							 		 26.00
Salutary	21027	66	75	-4	66							 		 26.00
Salutation	21028	66	100	44	44									 26.00

Prices quoted on special sizes.



No. 372.

B.-F. Theatre Dimmers.

The Bairstow-Fanning Theatre Dimmer is an adjustable Rheostat for regulating the brilliancy of incandescent lamps for stage effects.

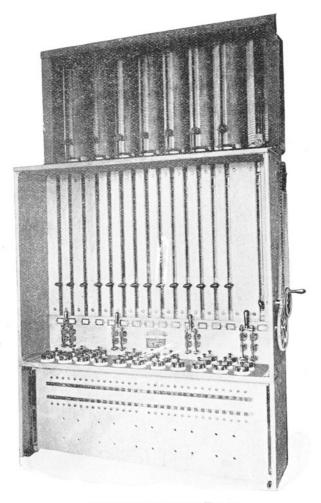
In construction these Dimmers resemble our adjustable rheostats described above.

The alterations in voltage of the lamps with the aid of these Dimmers, may be made so gradually that the change in illumination is entirely imperceptible; while on the other hand the lamps may be brought from a bright incandescence to a dull glow almost instantly. This valuable quality of rapidity of adjustment is entirely under control of the operator; while the great range and delicacy of gradations of the Dimmers is afforded by their design and construction,

These Theatre Dimmers are made not only to dim the lamps, i. e. to bring the lamps to a dull glow, but also to totally darken them if desired.

We have the sole right to manufacture these Dimmers and can furnish them in any size.

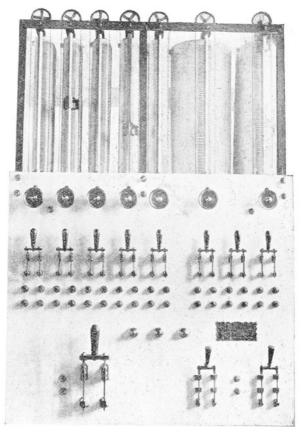
Interlocking Switchboard for Theatre Lighting. Equipped with B.-F. Rheostats.



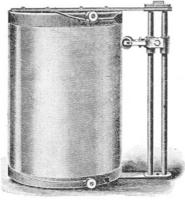
Erected in the Davidson Theatre, Milwaukee, Wisconsin.

Switchboard for Theatre Lighting.

Equipped with B.-F. Rheostats.



Erected in the Oliver Opera House, South Bend, Indiana.



No. 372.

B.=F. Theatre Dimmers.—(Continued.)

Code Word.	List No.					1	List Price. Each.
Ibex	372	10	Amperes,	single			\$24.00
Ibis	373	20	44	44			30.00
Icarian	374	25	44	44			33.00
Iceberg	375	30	44	44			36.00
Irelander	376	35	64	44			39.00
Icicle	377	40	44	44			42.00
Icy	378	50	44	two in	multiple	e	51.00
Ida	379	60	44	**	"		60.00
Ideal	380	70	66	44	44		75.00
Idiom	381	80	66	44	44		91.50
Idiot	382	90	66	44	66		110.00
Idly	383	100		three	44		120.00
Idolater	384	125	44	16	16		136.00
Idolutress	385	150	44	four	44		160.00

Lightning Arresters.

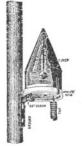
There are few problems in electrical engineering which have presented so many difficulties as that of protecting electrical apparatus against lightning.

The successful operation of lightning arresters depends largely—more than is ordinarily supposed—upon a systematic arrangements of the lightning arrester, or a combination of lightning arresters and choke coils, and upon the care with which the installation is made with reference to short straight ground wires, reliable earth connection and maintenance of these connections.

The protection of electric light and power circuits divides itself under two heads: first, the protection of distributing systems: second, the protection of transmission systems.

The Protection of Distributing Systems is effected by means of lightning arresters distributed at frequent intervals over the system. In surburban and otherwise exposed districts four to the mile of wire are recommended. In city districts two are usually found sufficient.

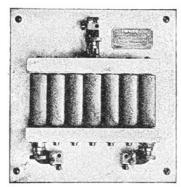
Power Transmission Systems do not require line arresters. The points of protection being at the extremities of the system, namely, in the power house and motor stations, a bank of lightning arresters, in combination with choke coils, is installed at each of these points. For voltages up to 3000 volts, four choke coils arranged in series in each wire, with lightning arresters intervening are recommended. For higher voltages than this, special combinations have to be made, according to the general characteristics of the system with reference to the capacity of the generator and the use of raising and lowering transformers.



No. 126.

Swinging Ball Lightning Arrester.

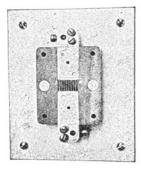
Laceration 126 Each \$8.00



No. 20763.



No. 20765.



No. 20767.

Lightning Arresters.

Wurt Lightning Arresters.

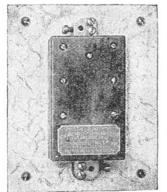
Double Pole Station Arrester. Type A. Code Word. List No. List Price. 20763 For Alternating Current, Incandescent and Power Circuits, up to 1200 volts, each . . \$21.00 Use two up to 2400 volts. Use three up to 3200 volts. Saddleslarped20764 For Alternating Current Arc Circuits, up to 3000 volts, each 21.00 Double Pole Line Arresters. Type C. Saddletree 20765 For Alternating Current, Incandescent and Power Circuits, up to 1200 volts, each. Use two up to 2400 volts. Use three up to 3000 volts. Sadducaic 20766 For Alternating Current Arc Circuits up. to 3000 volts, each..... 4.50 Single Pole Station Arrester.

Type K .- For Direct Current Only.

125 up to 600 volts.



No. 20769.



No. 20770.

Lightning Arresters.—(Continued.)

Wurt Lightning Arresters .- (Continued.)

Single Pole Line Arrester.

Type J.

Code Word. List No. Sadducee 20768 For Direct Current Arc Circuits up to 4000 Volts...... 6.00 Type J similar to Type L.

Type L.

Sadducceism 20769 For Direct Current Circuits, 125 up to 600 Volts...... 4.50

Single Pole Station Arrester.

Type 1.

Sudducism 20770 For Direct Current Arc Circuits up to 4000 Volts...... 8.25

Double Pole Station Arrester.

Type F.

Sudducize 20771 For Direct Current, Brush Circuits only 21.00



Garton Lightning Arrester.

Lightning Arresters.

Absolutist	25312	Stati	on Arrest	er, r	narble base	11.00
Absolutistic	25313	66	64	11	narbleized slate	11.00
Absolutory-	25314	64	44	p	lain slate	8.00
.1bsolcuble	25315	Pole	Arrester,	wit.	h iron cover	11.00
Absolutory	25316	66	44	- 64	wooden cover	8.00
.1bsonute	25317	Car	**	11	iron cover	11.00
			Kick	cing	Coil.	
Absonous	25318	Mar	ble Base,	325	amperes	14.00
Absorbabil	25319	Woo	den Base,	325	amperes	12.00
.1bsorbable	25320	Marl	ble Base,	125	amperes	12.00
Absorbition	25321	Plair	a Slate, 12	25 an	nperes	10.00

25322 Car and Stationary 9.00 "In ordering Garton Lightning Arresters state voltage and whether for Direct or Alternating Current."

.1bsorpt



Perfection Woven Wire Brushes.

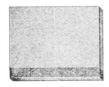
Code Word.	List No							Lis	t Price.
Salient	20900	1/2	ins. wide,	3-16	ins. thick.	6 i	ns. long		\$.75
Saliently	20901	34	"	1-4	44	7	"		1.25
Saliferous	20902	34	66	1.2	64	7	44		1.50
Salifiable	20903	7/8	44	1-4	44	7	44		1.35
Salification	20904	1	44	1-8	66	7	66		1.30
Salify	20905	1	66	1-4	44	7	66		1.50
Saligat	20906	1	44	5-16	44	7	45		1.60
Salina	20907	11%	66	1-4	44	7	44		1.60
Silination	20908	11%	44	5-16	66	7	66		1.70
Saline	20909	11%	44	3.8	66	7	66		1.80
Salineness	20910	11/8	66	1-2	66	7	66		2.00
Saliniferous	20911	11/4	44	1-4	44	7	44		1.75
Saliniform	20912	114	66	5-16	**	7	64		1.90
Salinometer	20913	114	66	3.8	66	7	44		2.05
Salinous	20914	114	44	1-2	64	7	44		2.30
Salique	20915	13%	4-	3-16	"	7	NO 44		1.75
Salite	20916	13%	"	1-4	66	7	44		1.85
Saliva	20917	13%	66	5-16	44	7	44		2.00
Salival	20918	13%	64	3-8	44	7	44		2.20
Salicant	20919	13%	44	1-2	64	7	44		2.50
Salivary	20920	11/2	66	1-4	44	7	64		2.00
Salivate	20921	116	44	5-16	44	7	61		2.20
Salivation	20922	11/2	66	3.8	44	7	-1		2.40
Salivous	20923	116	44	1.2	44	7	66		2.75
Salix	20924	11%	44	5-8	66	7	66		3.00
Sallenders	20925	11/2	44	5.8	44	8	**		3.25
Sallet	20926	156	44	1.4	44	7	44		2.20
Salleting	20927	156	44	5-16	- 66	7	61		2.50
Salliance	20928	15%	44	3.8	44	7	61		2.75
Sallow	20929	15%	66	1-2	44	7	61		3.25
Sallowness	20930	134	66	1-4	44	7	64		2.25
Sallowthorn	20931	134	44	5-16	46	8	44		2.35
Sally	20932	1%	"	3-8	66	8	64		2.50
Sallylunn	20933	1%	44	1-2	44	8	44		3.00
Sallyport	20934	134	44	5-8	44	8	44		3.50
Salmagundi	20935	134	-44	3-4	66	8	44		4.00
Salmiae	20936	134	"	7-8	66	8	66		4.50
Salmis	20937	17%	44	1-4	.4	7	44		2.30
Salmon	20938	13%	"	5-16	44	8	66		2.45
Salmonet	20939	13%	66	3-8	44	8	66		2.75
Salmonoid	20940	13%	66	1-2	44	8	55		3.50
Salmonpeel	20941	13%	66	5.8	44	8	66		4.25
Salmonpipe	20942	13%	66	5.8	66	12	66		7.00
Salmontrout	20943	2	44	1-4	66	7	44		2.50
Salygen	20944	2	44	5-16	66	8	66		2.75
Salon	20945	2	44	3.8	44	8	44		3.00
Saloon	20946	2	44	1.2	44	8	66		3.75
Saloop	20947	2	44	5.8	"	8	**		4.50
Salop	20948	21/8	66	3.8	44	8	66		3.30
Salpa	20949	214	66	3-8	64	8	44		3.50
Salpian	20950	21/4	44	1-2	66	8	66		4.25
Salpicon	20951	21/4	66	5-8	66	8	**		4:75
Salsafy	20952	21/2	44	5-16	44	8	66		3.25
Salses	20953.	21/2	64	3-8	66	8	64		4.00



Perfection Woven Wire Brushes.

—(Continued.)

Code Word	List No							Li	st Price. Each.
Salsilla	20954	21/2	ins. wide,	1-2	ins. thick,	81	ns. long		\$4.50
Salsoacid	20955	21/2	44	5-8	44	8	66		5.00
Salsoda	20956	278	44	3-8	44	8	66		4.25
Salsolaceous	20957	276	44	1-2	66	8	66		4.75
Salsuginous	20958	276	66	5-8	44	8	44		5.25
Salt	20959	3	44	3-8	44	8	66		4.50
Saltant	20960	3	14	1.2	66	8	14		5.00
Saltarello	20961	3	66	5.8	44	8	64		5.75
Saltate	20962	3	64	3-4	44	8	44		6.50
Saltation	20963	336		1-4	**	8	64		3.00
Saltatorial	20964	33		5-16	44	8	66		3.75
Saltatory	20965	336	44	3-8	**	8	44		4.75
Saltenke	20966	33,	66	1.2	66	8	66		5.50
Salteat	20967	336	44	5.8	66	8	66		6.50
Sulteellar	20968	23.	44	3.4	66	8	54		7.50



Carbon Brushes.

We give below a list of the Standard Carbon Brushes used on Western Electric Generators and Motors. In addition to this list we are prepared to quote prices on any size needed. When you are in the market for brushes write to us for special price list which will be mailed on application.

Code Word	List No.																	I	ist Pr	
Sapling	21269	13%	х	56	x		14									٠,		 	\$20	
Saponaceous	21270	134	x	34	х															.00
Saponacity	21271	134	х	34																.00
Saponary	21272	2	x	34	x		7												20	.00
Saponifiable	21273	2		1			1/9													.00
Saponify	21274	2	X	2	х		34				 								40	.00
Saponine	21275	21/2	x	56	X		36								 ,			 	25	.00
Saponule	21276	21/2	X	11/8	х		3/8												25	.00
Sapor	21277			11/8															25	00
Saporific	21278			1,3																.00
Saporosity	21279	21/2	х	114	Х		3/8												25	00
Saporous	21280			134			7												25	.00
Sapota	21281	4	x	15%	X		34												55.	00
Sappare	21282	4	x	1%	х		34						. ,						60.	00
Sapper	21283	4		134																00
Sapphic	21284	4		134																00
Sappiness	21286	4	x	2	x	1													80	00
Sappy	21287	4	x	2	X	1	1/8												100.	00
Saproller	21288	4	X	2			3/8												130.	00

Western Electric Non-Sparking Brushes.



Western Electric Non-Sparking Brushes are made under Pateut No. 419,660, and are specbially adapted for use on dynamos where metal brushes are ordinarily used.

The brushes are constructed with high resistance metal placed upon both sides of a low resistance, the object being to prevent sparking at the edges of the brushes when leaving the segments.

The principle on which these brushes work is shown in the cut. The armature coils are represented diagrammatically at c c, and the brush is shown just before it leaves one of the commutator segments. It will be seen from an inspection of the cut that the current traveling up on either side of the armature, and passing into the brush from the segments a and a, has to pass through the high resistance metal of the brush, while the current can pass through the coils c^1 and c^2 into the segment b, and from there into the low resistance metal of the brush. Of course, under these conditions, the main body of the current goes through the low resistance metal, and as the segment a approaches nearer and nearer the tip of the brush the

resistance still further increases and the amount of current flowing from segment a into the brush is gradually diminished until just as the brush leaves the segment there is very little, if any, current to be interrupted, and consequently little or no sparking.—

This action takes place whether the brush is in its proper position for the load it is carrying or not, the action in the latter case being to reduce the amount of current which has to be broken when the segment leaves the tip of the brush, and consequently when sparking does occur it is not as violent as if the ordinary low resistance brush was used.

An insulating medium is placed between the high resistance metal and the stiffening springs on the outside of the brushes which prevents the current from reaching the brush holder without first passing through the entire length of the brush.

These brushes are made of selected material of the best quality and in the most careful manner possible.

The outside strips of stiffened metal should never be allowed to touch the commutator. If this happens the high resistance metal is short-circuited and rendered useless. When the brushes become worn down use a file or hack saw

to cut away about an inch of the metal of the stiffening springs.

If brushes tend to spread at the toe, the stiffening springs may be bowed at the brush holder to hold the toe more tightly together. Tension may be light if commutator is true and smooth. Some lubrication is needed—oil is generally used, but in some cases something heavier is to be preferred, such as vaseline or tallow. There are very few commutators that do not need the occasional application of sandpaper if for no other reason than to keep the mica down to the level of the copper. A rub in time saves a trip to the repair shop.

Next to a smooth commutator, the most important condition for sparkless running of dynamo brushes is the amount of "lap," or length of bearing of the brush. The lap is determined by the thickness and the bevel of the "business end" of the brush. Except where otherwise specified Western Electric Brushes are made with a bevel of forty-five degrees. This represents



Showing Bow of Stiffening Spring.

Western Electric Non-Sparking Brushes.

(Continued.)

sents the common practice. Siemens & Halske brushes are beveled to twenty-nine degrees. It is not uncommon to find dynamos which have been running for years with totally wrong lap on the brushes. No rule can be laid down, but in most cases a little observation will show what is best for a particular dynamo, and after this has been determined the correct bevel should be maintained by trimming brushes when necessary. In some cases trimming can be saved in part by carefully shoving forward one brush at a time, allowing the natural wear to restore the original bevel.

Regular Stock Sizes of Western Electric Brushes.

See Special I	List for	other	Sizes.
---------------	----------	-------	--------

Style	Width.	Thickness.	Length.	Price.
A	1/2	18 18	8 8 8 8 8	\$.90
M	23 4 7 8	פינים שליים אר שליים אין היים מישט -פי יים מליים של היים ארים שליים אין היים מישט -פי	8	1.05
R	- 1	16	8	1.15
В	1	16	8	1.25
N	1 .) 3	8	1.45
F	12) 1	8	1.15
I	11	1 %	. 8	1.40
0	11	1 8	8	1.65
D	1 g 1 g	3	10	2.00
J P Q L C· K	18	1 4	10	2.60
P	1 1 4	5 6	8	1.55
Q	13	5 6 6 6 6 6 7 7 8 4 5 8 7 7 8 5 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8	1.70
Ľ	17	5	10	2.05
C•	1 7	3	10	2.45
K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	10	3.25
G,	1 4	7.	10	2.85
E	1 1 1	i ä	12	4.60

Price List of Western Electric Brushes.

Thickness	Length					V	WIDTH	INI	NCHE	8.				
in Inches.	in Inches.	1/2	ĝ	å.	7	1	11	11	18	11/2	18	13	13	2
	(8	\$0.55	\$0.60	\$0.55	\$0.70	\$0.75	\$0.80	\$0.85	\$0.90	\$0.95	\$1.00	\$1.05	\$1.10	\$1.15
136	10	.65	.70	. 75	.80	85	.90	1.00	1.05	1.10	1.15	1.25	1.30	1.35
7	(12	.70	. 75	.80	.90	.95	1.05	1.10	1.20	1.25	1.30	1.40	1.45	1.50
	(8	. 75	.80	.90	.95	1.00	1.10	1.15	1.20	1.25	1.30	1.40	1.45	1.50
‡	{ 10	.80	.90	.95	1.05	1.15	1.20	1.30	1.35	1.45	1.50	1.60	1.70	1.75
	(12	.85	.95	1.05	1.15	1.25	1.35	1.45	1.50	1.65	1.70	1.80	1.90	2.00
_	(.8	.90	1.00	1.05	1.15	1.25	1.35	1.40	1.45	1.55	1.60	1.70	1.80	1.85
16	10	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.85	1.95	2.05	2.15
	(12	1.05	1.20	1.30	1.40	1.50	1.65	1.75	1.90	2.00	2.15	2.25	2.35	2.50
9	(.8	1.10	1.15	1.25	1.35	1.45	1.55	1.65 1.85	1.75	1.80 2.10	1.90	2.00	2.10	$\begin{array}{ c c c c } & 2.20 \\ \hline & 2.60 \end{array}$
¥	10	1.15 1.20	1.30	1.40	1.70	1.65	1.45	2.10	2.00	2.40	2.50	2.65	2.40	2.95
	112	1.25	1.35	1.45	1.55	1.70	1.80	1.90	2.00	2.10	2.20	2.35	2.45	2.55
7	10	1.35	1.50	1.60	1.75	1.90	2.05	2.15	2.30	2.45	2.60	2.70	2.85	3.00
178	12	1.45	1.60	1.80	1.95	2.10	2.30	2.45	2.60	2.75	2.90	3.10	3.25	3.40
	(8	1,40	1.50	1.65	1.80	1.90	2.00	2.15	2.30	2.40	2.50	2.65	2.80	2.90
3	10	1,60	1.70	1.85	2,00	2,15	2.30	2.45	2.60	2.80	2.95	3.10	3.25	3,40
,	112	1.65	1.85	2.00	2,20	2.40	2.60	2.80	2.95	3.15	3.35	3.50	3.70	3.90
	1 6 8	1.70	1.90	2.05	2.20	2.35	2.50	2.65	2.80	3.00	3.15	3.30	3.45	3.60
è	10	1.90	2.05	2.25	2.45	2.65	2.85	3.05	3.25	3.45	3.65	3.85	4.05	4.20
-	(12	2,05	2.25	2.50	2.75	3.00	3.20	3.45	3.70	3.90	4.15	4.40	4.60	4.85

Thickness is given for the middle of the Brush.

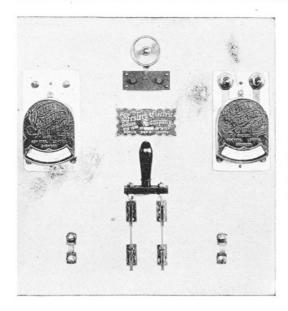
For price of 6 inch Brush, subtract from 8 inch, difference between 8 and 10 inch.

re inch price will be charged for any size under that thickness.

Brush Copper.

REGULAR SIZES IN STOCK. SPECIAL SIZES MADE UPON SHORT NOTICE.

Nos. B. & S. Gauge.	1/2 in. and Narrower	Over 16 in. to 1 in.	Over 1 in. to 1½ in.	Over 1½ in. to 2 in.	Over 2 in. to 2½ in.	Over 2½ in.
23	\$0.37±	\$0.37	\$0.36±	\$0.36±	\$0 36½	\$ 0.3 6
24	.37½	.37	$.36\frac{1}{2}$	$.36\frac{1}{2}$	$.36\frac{1}{2}$.36
25	$.38\frac{1}{2}$.38	.371	.371	.37½	.37
26	$.38\frac{1}{2}$.38	.871	.371	$.37\frac{1}{2}$.37
27	.40	.391	.39	.39	.39	.38
28	.40	$.39\frac{1}{4}$.39	.39	.39	.38
29	.41	.404	.40	.40	.40	.39
30	:41	.404	.40	.40	.40	.39
31	.43	.42	.411	.41 <u>±</u>	.411	.40
32	$.43\frac{1}{2}$	$.42\frac{1}{2}$.411	.411	.411	.40
33	.441	.431	.421	.421	.421	.41
34	.444	.434	.421	$.42\frac{1}{2}$	$.42\frac{1}{2}$.41
35	.46	.45	.44	.44	.44	.42
36	.47	.46	45	.45	.45	.43
37	.50	.49	.46	.451	.45	.43
38	.53	.491	.48	.47½	•47	44
39	.56	.51	.491	.48	.47	.44
40	.60	.53	.50	.49	.48	.45



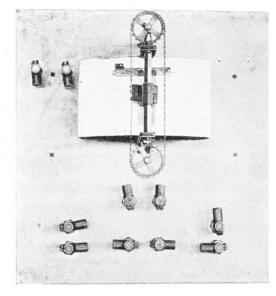
Switchboard.

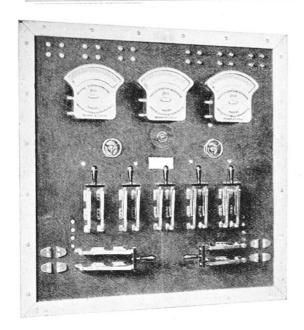
The illustrations on thi page show respectively th front and rear of our standar switchboard for one dynam and one feeder circuit.

Switchboard Front.

We are prepared to furnish witchboards for any number or sizes of dynamos and for any number of feeder circuits.

Switchboard Rear.

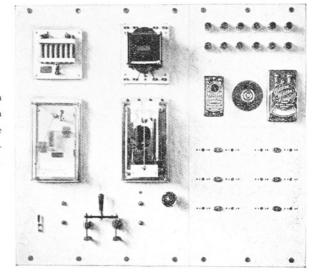




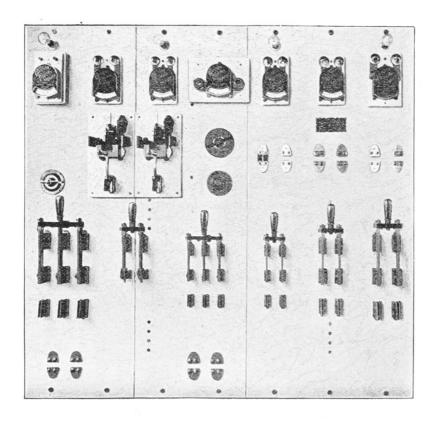
Switchboards.

This illustration shows a switchboa d furnished with Type "Q" quick break switches for two dynamos and five lin: circuits.

This illustration shows a combination switchboard for one incandescent alternator and are dynamo



Switchboards.



Combination power and lighting board for two dynamos and four circuits.

Equipped with Western Electric ammeters and volt meters, and Western Electric type "E" switches.

It is almost impossible to standardize switchboards. We build switchboards in accordance with specifications and conditions.



Switchboard Clock.

This is an American Eight Day Engine Lever Clock in a dust-proof case, designed especially for use on the Switchboard, where an accurate record of time is a valuable accessory to the proper running of a station.

The second hand is placed in the same position as is usually found on a watch. The movement can be easily taken from the dust-proof case. The porcelain dial is without feet and consequently is not liable to fracture. The regulator is of the micrometer pattern and allows of the closest regulation. The escapement is of the pattern known as the quick beat and is in a separate frame.

The movement is of the three plate type which permits of the removal of the main spring without disturbing the train or escapement.

The construction of the clock and working preportions of the movement from the main wheel to the balance wheel compare favorably with the very highest grade of English or French clocks.

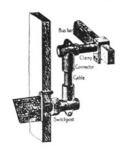
The particular mounting of the main spring produces a uniform maintenance of the arc of vibration and the deviation from absolute correct time can be no greater on the eighth day than on the first, and after once adjusting the clock the result is great accuracy as a time-keeper.

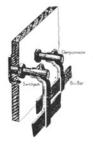
Watches carried by persons in a dynamo room are always subject to magnetism and a correct timepiece located on the switch board will be a useful article in any electric light plant.

The dimensions of the Eight Day Switchboard Clock.

Width of back	53	inches
Length of back	7	6
Depth	34	**
Diameter of clock	. 51	α

25571 Switchboard clock, nickel finish . .\$10.00





Switchboard Fittings.

Clamps for Inside Bus Bars.

The connections from switches to bus bars are made by using the inside bus bar clamps.

The stud extends back so that the connector on it is in line with the connector on the switch post; no bend is necessary on the cable.

Clamps for $\frac{3}{8} \times 1\frac{1}{2}$ in., $\frac{3}{4} \times 1\frac{1}{2}$ in. and 1×2 in. bus bars can be furnished promptly.

Connectors, switches and clamps are all numbered alike for capacity.

No. 1 b	eing fe	or 50 at	mperes.	No. 6 b	eing for	600 a	mperes,
No. 2	44	75	44	No. 7	66	800	**
No. 3	44	150	44	No. 8	66	1200	44
No. 4	44	300	44	No. 9	66	2000	16
No. 5	44	450	44				

Prices quoted on application.

Clamp Connectors.

When space back of switchboard is very limited we make the connector on the switch post and clamp all one piece.

This style made to order. In writing for prices give full information as to size and the quantity.

Connectors, with Set Screws, for Heavy Conductors.



Nos. 65161 to 65171.



Nos. 65173 to 67183.



Nos. 67361 to 67371.

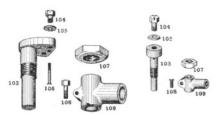
Chime	65161	" Tee "	Connector	for	1	mch rod,	eacl	 .25
Chimera	65163	**	44	44	ŝ	4.6	46	 .40
Chimerical	65165	44	11	46	į	4.6	44	 1.00
Chemistry	65167	**	- 61	"	200	4.6	44	 1.40
Chip	65169	**	**	**	å		4.6	 1.50
Chipped	65171	44	**	61	ã	"	**	 1.75
Chipping	65173	Elbow	41	11	1	44		 20
Chirp	65175	66	44	**	å			 .40
Chiscled	65177	**	6.	f1	į	**	* *	 .70
Chival rous	65179	44	-64	44	il.	+6	61	 .80
Chivalry	65121	64	44	44	128	**	**	 .90
Chocolate	65183	**	44	44	ŝ	**	"	 1.40
Choice	67361	Straigh		**	1	**	4.6	 .20
Choir	67363	4.6	10	**	<u>ş</u>	**	**	 .30
Choke	67365	**	**	44	ł	**	4.6	 .65
Choking	67367	44	"	"	å	**	44	 .75
Choler	67369	4.4		11	ş	**	44	 .85
Cholera	67371	**	44	11	R	"	**	 1.30



Fuse Posts, No. 1, 2, 3 and 4.



Fuse Posts No. 5, 6 and 7.



Switch Board Fittings.—Continued Fuse Posts.

The illustration shows our fuse posts. The sinaller size are equipped for one fuse, the larger one for two fuses. The posts are cast from a special composition. The conductivity of which is almost the same as that of copper. The connectors are our standard.

The Hexagon slotted cap screw with brass washers can be tightened by either a wrench or a screw driver.

Fuse Posts.

Code Word.	List No.								Lis	f Price Each.
Acenus	25573	No. 1	25	to	50	ampere	8		 	\$.080
Acipenser	25574	No. 2			75	46				1.00
Acturgy	25575	No. 3	75	to	150	44				1.30
Ackaow	25576	No. 4	150	to	300	9				1.90
Acknowledge	25577	No. 5.	300	to	450	- 64				3.00
Arknowledger	25578	No. 6	450	to	600	11				4.00
Acknowledgemet	25579	No. 7	600	to	800	44		. , .		6.10

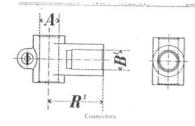
Table of dimensions of fuse posts. Letters referring to diagrams.

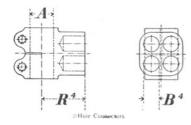
Size	of Fuse Post			Lim	ensions-In	iches.		
No.	Amperes	A	В	С	D	Ε	F	R
1	2550			12	j ⁶ E	,	4	ě
2 3	50- 75 75-150			1+	8		1	14
4	150-300			276	4		k	1
5	300-450	54	1.1	28	1.+/4	1/4		2
6	450-600	54	11	3	11+74	1/2		24
7	600-800	53	11	31	11+14	2		24

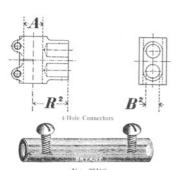
Table giving shop order numbers for parts of fuse posts.

			ORD	ER-NU	IBERS	ON PAR	RTS FO	R	
2	Name of Part	Fuse-Post	No. 1	No 2	No 3	No 4	No 5	No. 6	No. 7
		Amperes	25-50	50-75	75-150	150-300	300-450	450-600	600-800
3	Fuse	Post	1031	1032	1033	1034	1035	1036	1037
	Cap.	Screw	1041	1042	1043	1044	1045	1046	1047
		ner		1052	1053	1054	1055	1056	1057
5	Screv	N					1065	1066	1067
7	Post	Nut	1071	1072	1073	1074	1075	1076	1077
8		'r-Screw-,	1081	1082	1083	1084	1085	1086	1087
9	Conn	ector	1091	1092	1093	1094	1095	1096	1097

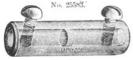
Prices on Parts Quoted on Application.











No. 25585.

Switchboard Fittings.—Continued. Connectors.

All our connectors for switches (with back connections) and fuse-posts are of the same swivel type, clamping around a stud, allowing the circuit wires to be connected from any direction.

The standard connectors are for one cable entering the connector in a direction vertical to the stud.

Larger sizes of connectors are also made for two or four cables. Compare tables of dimensions No. 18 and No. 19.

We also manufacture "vertical" connectors for cables e itering the connector in a direction parallel with the stud, and T-Connectors.

Dimensions of Standard Connectors.

Table of Dimensions No. 18.

				Dinien	sions-	Inche	s.		
To Fit Stud on Switch No.	1	1	3	4	5	6	7	8	9
A BI BI, maximum	7 32 12 12	3,8	7'4 28	58 250	13 16 13 16	1 31 72	14 17 17 13	18 111 116	1½ 2§
R1	7 8	1 16	14	14	2	21	23	38	48

Note. - For Q No. 2 Switch use No. 1 Connector.

Order numbers for these connectors are found under parts of switches or fuse points.

Dimensions of Special Connectors.

Table of Dimensions No. 18.

To Fit	Stud on Sw	itch No	7	8	9
	Order No		2627	2628	2629
Dimension	sIn.	A	11	19	14
44	-4	B2	3 (max1)	1 (max=11)	14
=4	44	R2	21	28	3 ‡

Table of Dimensions No. 19.

To	Fit Stud on Switch N	0	8	9
	Order No		2648	2649
Dimensions	-Inches	Α	13	14
**	**	B4	98	1,1
4.5	41	R4	21	23

Wire Connectors.

Straight Connectors.

Code Word	List No	B.E.	No				Lis	t Price
Actinic	25580	315	For No	o. 8 B.	& 8	8. Gauge	Wire	\$0.07
Acmita	25581	316	**	10	**	64	",	.07
Acne	25582	317	6.4	12 or 1	14 "	44		.06
Acaekhill	25583	313	4-inch,	for N	0.6	Wire		.07
Acold	25\$84	314	19 "	64	4	"		.08

Brooklyn Connector.

When necessary to solder one end, the dividing wall prevents the melted solder from running through.

Acology	25585	310	4-inch Both Ends, for No. 6 Wire.	.06
.1colyte	25586	311	One End 12-inch for No. 4 Wire,	
			Other End 4-inch for No. 6 Wire.	.07
Acoluth	25587	312	18-inch Both Ends, for No. 4 Wire.	.07



Nos. 65189 to 65205.



Nos. 65209 to 65225.



Nos. 65229 to 65245.

Switchboard Fittings — Continued.

Connectors for Heavy Conductors.

Code Word.	List No.							List	Price.
Choleric	65189	Cross C	onnection	for 1	incl	rod, e	ach	5	1.00
Choose	65193			3					1.75
Chooser	65197	- 1		1		11			2.00
Choosing	65201	**	**	** \$			**		3.00
Chop	65205	**	**	" 4		**	"		4.00
Chopper	65209	" Tee "	or " Y "	Connec	etio	n for 1	inch r	od, each	.90
Chops	65213	4.6	64	44		· · · · · · · · · · · · · · · · · · ·			1.40
Choral	65217	**		**		" 1	**		1.60
Chord	65221	4.6	**	4.4		8		"	2.00
Chorister	65225	4.1		**		4	**		3.00
Chorus	65229	Straigh	t Connect	ion for	1 i	nch ro	d, eacl	h	.65
Chorusgirl	65233	4.6	**	**	å	4.6			.90
Chosc	65237	**	4.6	**	1		**		1.10
Chosen	65241	4.6	**	**	à	**	**		1.50
Chousing	65245	**	**		ž	**	**		2.00

Wire Terminals.



No. 1321.

Lack	1321	į	Inch, ea	ch		 			 			. ,			. ,				
Lackey	1322	용	4.0				. ,				,		,						
Lacking	1333	1	**								,								
Laconic	1334	â	61			 			 					,			. ,		
Laconical	1335	2	64						 										
Laconics	1336	1							 			 			 				
Absorptive	25323	14	,		 				 ٠.										
Absorbticity	25324	1+	•		 														

Wire Connections.

Single Screw.



No. 1851.

A	
V	EFFEREN

No. 8973,

		Outside Size,	of Wire.	
Crag	1851	*	6	per 100
Cragged	1852	7°c	4	"18.00
Craggy	1853	1/2	2	"21.00
Cramp	1854	2°C	0	"24.00
Cramping	1855	5	00	***27.00

Double Screw.

		Outside Size,	Size of Wire.	
Edna	8973	4	000	per 100 44.00
Educate	8974	7	0000	"60.00
Education	8975	1	4	"
Edward	8976	11		

Code Word. List No.

Switchboard Fittings-(Continued).

Clamp Connections for Heavy Conductors.

List Price.







Chowder 8977 Cross Connection for 1/2 inch rod, each \$2.20 Chrismal8978 T Connection for ℓ_{π} inch rod, each............ 1.45 Chrismath8979 Straight Connection for 72 inch rod, each...... 1.10 Chrism8980 Y Connection for & inch rod, each.... 1.15



No. 8980.



No. 8981.



No. 8982.



Nos. 1804 to 1812.

8981 L Connection for 1 inch rod, each...... 1.25 Cemented 8982 T Connection for Pa inch rod, each..... 1.20 Cementing

Wire Terminals.

						- T
1804	For No.	12	wire,	B. & S.	G., per 100	4.00
1805	61	10	**	4.4	**	
1806	4.4	8		4.1		
1807	1.6	6	**	4.4	**	
1808	1.4	4	**	**	**	
1809	11	3	**			
	**	2	++	**		
	**	1	**	**		
1812	**	0	-41	**		11:00
	1805 1806 1807 1808 1809 1810	1805 " 1806 " 1807 " 1808 " 1809 " 1810 "	1805 · · 10 1806 · · · 8 1807 · · · 6 1808 · · · 4 1809 · · · 3 1810 · · · 2 1811 · · · 1	1805 " 10 " 1806 " 8 " 1807 " 6 " 1808 " 4 " 1809 " 3 " 1810 " 2 " 1811 " 1 "	1805 " 10 " " 1806 " 8 " " 1807 " 6 " " " 1808 " 4 " " " 1809 " 3 " " " 1810 " 2 " " " 1811 " 1 " " " " " 1811 " 1 " " " "	1805 " 10 " " " " " " " " " " " " " " " " "

Switchboard Fittings-(Continued).



			١	Vii	e Hol	ders.										
Code Word.	List No.													1	ls	t Price.
Corrette	1813	1	to	25	amperes,	per pair	٠						 			\$0.50
Cosmetic	1814	25	to	100	**	**			 		. ,	,	 			1.00
Cosmic	1815	100	to	300	44	44										2.00
Cossack	1816			400	**	**							 			3.00
Costing	1817			500	4.4	64							 			4.00
Couch	1818			600	**	41							 			5.00
Couchant	1819			800	4.6	4.6							 			6.00
Cough	1820			1000	**	44							 			8.00

Bus Bar Stands.



Coventry	1821	ł	inch,	each	١.							,											.50
Covert	1822		- (1			,																	.75
Covertly	1823	1	44	4.6											,		 . ,						1.00
Coverture	1824	4	44	**			,	,					,										1.25
Coret	1825	- 2	**	4.																			1.50
Coreted	1826	1	**	44										. ,									2.00
Coreting	1827	11	**	**												,			+			, ,	2.50
Coretous	1828	1+	4.4-	**																 			. 3.00

No. 1821.

We make the above in the following lengths: 1 inch, $1\frac{1}{4}$ inch, 8 inch and 4 inch. Specify Length.

Bus Bar Connections.



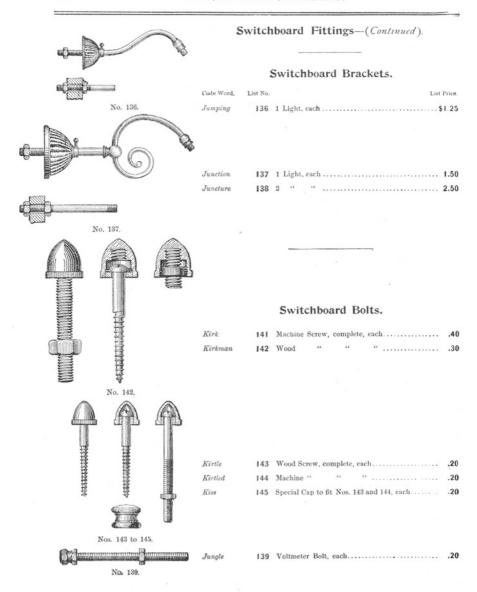
Corey	1829	1	inch,														
Coward	1830	1	**	**													٠.
Cowardice	1831	8	**	100	 												
Concardly	1832	1	44	66											 		
Crab	1833	8	**	4.6					 	. ,					 		
Crabapple	1834	8	44	11					 			,					
Crabbed	1835	1	**	66				 	 						 		
Crabbedly	1836	11	**	+4		. ,			 			,		,	 		
Crabby	1837	11	41	4.4					 		 				 		



Craaling

Crack	1838	1	inch,	eac	h.										 ٠.			 		.4
Cracked	1839	1	**	11	٠.					 					 			 		. 6
Cracker	1840	8	44	15											 			 		. 6
Cracking	1841	+	44	4.4																.8
Crackle	1842	- 56	"	11																1.0
Crackling	1843	4		**																1.2
Cradle	1844	1	**	**							 					. ,				1.5
Cradled	1849	11	44																	2.0

Split.



ARC SUPPLIES.

Miscellaneous.

Current Direction Indicator.

This instrument is placed directly in an arc circuit and visually indicates or shows the direction of the current, if desired, it can be made to close a local battery circuit so as to ring an alarm bell and trip an annunciator needle whenever the current flows in the wrong direction, the annunciator showing the number of the circuit that is misconnected.

The Indicator is well adapted for use upon are circuits of both high and low tension systems of any manufacture.





No. 213

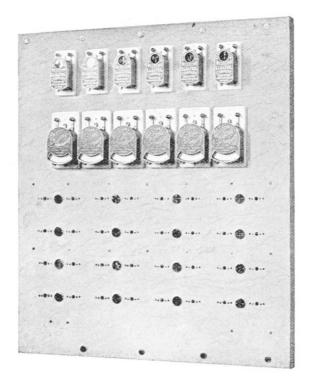


Arc Ammeter.

This Ammeter is designed for use as a station instrument. It is well protected by a sealed case; has no springs or permanent magnets; is dead beat and accurate within one per cent.

Arc Switchboard.

Equipped with Western Electric Instruments.



A Typical Switchboard constructed for six dynamo and ten line circuits. The onstructed of marble, and for each dynamo is furnished an ammeter and polarity. Inly specially selected marble is used for arc boards and the workmanship is the uaranteed. Specifications for special boards will be furnished on application.

List Price.

Arc Switchboard Fittings.

Improved Spring Jack.

This cut represents the latest type of Switchboard Spring Jack for Arc Circuits. The Spring Jack is separable and a bushing screwing through from the face of the board holds the Spring Jack in place and obviates any liability from shock on the face of the board as there are no metal parts of the Jack on the front of the board. The connection to circuit is made by means of a swivel lug and brings the wire against the marble board. When the Spring Jack is in place, with all connections made, it extends from the back of the board but 23\% inches. The contact spring is of phospor bronze, and extra length is secured by making it the curved form as shown.





Code Word List No.
Sarcocal 21350

Absque

21350 Spring Jack

Improved Plugs.

The Safety Plug illustrated is of the sheathing type and renders it impossible to obtain a shock should the circuit be opened accidentally at the switchboard while making a change of circuits when the dynamo is in operation. The insulation is of hard rubber and of sufficient strength to stand any ordinary service. These plugs are made in two sizes, one for main circuit and one for transfer circuit.



No. 21351.

No. 21352.

Sarocolla	21351	Transfer Plug	4.00
Sarcode		Main Plug	5.00

Old Style Plugs.



No. 1176.

Dawning

1176 Disconnecting Plug, each . . .

1.00

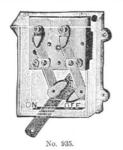


No. 1177.

Day

1177 Main Plug, each.....

1.50



Cleveland Arc Cut-out.

Code Word.	List No.	List Price.
Editor	935	Each



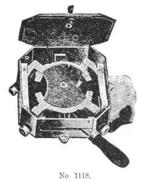
Western Electric Building Switch.

Edmond 2926 Each 11.25



Hope Arc Cut-out.

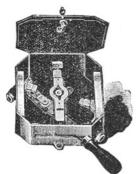
Damp	1115	Slate base	, each				4.70
Dampness	1116	Porcelain	base,	each			6.00
Damsel	1117	**	**	cam mo	vement.	each	6.00



Hope Arc Cut=out—(Continued).



No. 1119.



No. 1127.

Dandify 1127 For Alternating Currents, Bi-pole; each......14.40



Bryant=Cleveland Arc Cut=Out.

This Arc Cut-Out is made entirely of porcelain and metal, consequently incombustible and moisture-

The action of the commutator at the point of breaking or closing the circuit is entirely uncontrolled by the handle.

The binding posts are the well-known K. W. style, very secure and easy to wire.

Code Word. List No. List Price. Edition 934 Each..... .. \$3.00



In order to comply with the requirements of the fire underwriters an absolute cut-out must be placed wherever arc wires enter or leave a building. The cut-out here shown is of an improved type, having been adopted by many of the large electric companies. It is fire-proof, all the mechanism being mounted on porcelain, while the switching action is instantaneous in both directions, the operator having no control over it. It is, therefore, impossible for the contacts to remain in any position but that shown by the indicator "on" or "off." This cut-out is designed for heavy service, and will operate without arcing on from one to fifty lamps.

Saucebox

21079 Each...... 7.00



No. 21079.

No. 21080.

F. W. Small Arc Circuit Cut=Out.

This Cut-Out is intended for light service, such as from one to five lamps. It is designed for use in places where it would be inconvenient to install the larger size. The switching action is performed by turning a key which compresses a spring, then suddenly releasing it, causing the central porcelain disc to make one-quarter revolution but always in the same direction. This instantly switches the current off and on. This cut-out is admirably adapted for use in iron lamp posts where the cables come up from below.

Saucepan

7.00 21080 Each.....



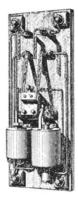
No. 21081

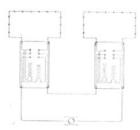
Lightning Arresters for Arc Circuits.

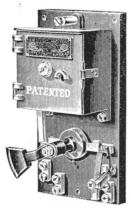
Where arc circuits enter or leave the station it is necessary to place lightning arresters in the several branches, in order to protect the dynamos and apparatus in the station during heavy thunder storms so prevalent in some parts of this country. The lightning arrester here shown affords a path for the lightning discharge to earth, and should an arc from any cause follow the discharge, it is broken.

Saucer

21081 Each 10.00







No. 23078.

Automatic Circuit Controlling Switch.

This switch is designed more especially for use with series are or other high potential circuits where it is desired to cut out and entirely insulate a line when not in actual service. It is entirely automatic in its action and never offers any appreciable resistance to the passage of current through itself. The construction is such that when current is supplied to its terminals that current will be established in the line in case the line is in proper working condition; if the line should be open the switch will again insulate the line and the current will flow directly through the switch encountering there only the resistance of a small solenoid wound with heavy wire, If at any time during the operation of the line an accident should occur causing the circuit to be opened, the switch will immediately insulate the line and provide a path for the current through itself. Before remaining permanently in that position, however, it will make a trial stroke so that if the continuity of the line has been re-established (as for instance by the dropping together of carbons in a lamp whose rod had become stuck) that current will be re-established in the line as before,

The diagrams of circuits shows the usual way of connecting the switches to the lamp circuits—any number of switches may be used on a line, each one controlling a given portion. A single switch is capable of controlling a circuit of any number of lamps up to fifty.

Prices on application.

Electric Clock Switch.

This Switch was designed for use in offices, show windows, hotels, etc., or on any direct or alternating current circuit, not exceeding 125 volts of pressure.

It operates both to turn on the current at whatever hour of the day the dial is set for, and later on to cut it off again at any desired time.

It is not a magnetic, but a mechanical switch, operated by means of a clock movement, which is wound when the switch is set.

The clock movement is protected by a neat Iron Japanned case, with hinged door. The switch part is free, and readily accessible. A case, enclosing the entire switch, can be furnished if desired. All the parts are insulated in the best manner, and the work is strong and substantial.

Mounted on slate base, capacity 10 amperes.

 Code Word.
 List No.
 Price List. Each.

 Silarian
 23078
 Electric Clock Switch
 \$14.40



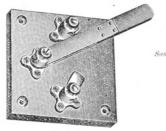
Arc Light Line Switches.

Code Word. List No.

21048 2-Point

Mounted on Slate.

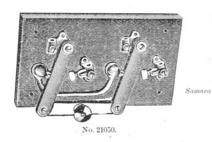




21049 3-Point 2.50

Mounted on Slate.

No. 21049.



Isolating Switch for Arc Circuit.

A simple and reliable Switch adapted for currents below 30 amperes, and which operates to completely isolate or remove the lamps from all connections with a circuit made with a circuit. Made with slate base and bronze terminals.



P. & S. China Hanging Board.

Samuarra 21054 " with old brass work refitted 1.35

No. 21053.



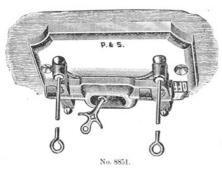
Arc Cut=Out Boards.

Code Word	List No.							I	ist Price.
Earldon	2850	Round,	wood,	each	 	 	 	 	\$3.00
Abstainer	25326	66	slate,	66	 	 	 	 	3.70



N	_	OH	0.70	•	
INI	о.	2	30	ч	

Earn 2851 Oblong, wood, each 2.80 Absteminus 25327 " slate, " 3.70

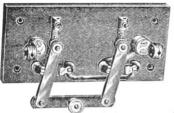


China Arc Hanging Board.

No. 8851, for series circuits, has automatic device which closes circuit if the lamp is disconnected when the switch is on.

No. 8852 is for incandescent circuits, and the switch is also double pole and breaks in four places.

Code Word.	List No.	List Price Each.	e.
Dating	8851	For Constant Current, Series Circuit 2.50	0
Dative	8852	For Constant Potential, Multi- ple Circuits 2.5	0



No. 21051.

Stationary Lamp Hanger.

With Isolating Switch.

By the use of this Hanger the lamp can be entirely disconnected from the circuit, and not merely shunted, as is the case with single pole switches. They are made for either wide or narrow frame lamps. Mounted on slate.

Sithare	21051	Narrow	frame	4.50
Samaritan	21052	Wide	"	5.25



Stationary Hanger Boards.—(Continued.)

 Code Word.
 List No.
 List Price.

 Samester
 21058
 For Narrow Frame Lamps
 \$2.75

 Sameth
 21059
 For Wide Frame Lamps
 3.20

Mounted on Slate. For either double or single lamps.

Hanger Boards.

For Constant Potential Lamps.



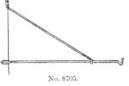


No. 21092.

Kelsh Arc Lamp Hanger Board.

amint 21062 Each 3.00

Mounted on Marbleized Slate.



Arc Lamp Hooks.

Copionsness 8705 Plain, wrought iron, each 1.50

No. 8706.

Copist

8706 Ornamental, each

No. 8707.

Coplant

8707 Ornamental, each

Prices on Ornamental Brackets quoted on application,

O No. 8708.	Code Word. Copperish	Arc Lamp Hooks—(Continued). List No. List Price. 8708 Ornamental, each
No. 8709.	Coppice	8709 Ornamental, each
No. 8710.	Сорве	8710 Ornamental, each
No. 8711.	Copula	8711 Ornamental, each
No. 8716.	Сору	8716 Ornamental, each
Or O O No. 8717.	Copybook	8717 Ornamental, each



No. 21636.

Lamp Hoods.

These Hoods are made of heavy galvanized iron, japanned, supported by iron frames, with a cast iron base, making the whole very strong and substantial.

The lamp is suspended from a hanging board provided with a hand cut-out, and firmly fastened inside the Hood.

Code Word,	List No.	List Price. Each.
Scoria	21636	Each



No. 2001.



Lamp Hoods—(Continued)

 Code Word.
 List No.
 List Price.

 Easel
 2002
 Each.
 \$25.00





Lamp Hoods.—(Continued.)

Code Word.	List No.	Li	t Price.
Easiness	2886	Complete	\$9.00
Salutatorian	21029	Hood only	3.50
Salutatory	21030	Side Rods and Bracket	3.50
Salute	21031	Cut-Out Board	2.00



No. 2887.

Easement	2887	Complete with Cut-Out Board	5.00
Saluter	21032	Hood only	3.00



No. 2888.

Easing 2888 Complete with Cut-Out Board...... 4.00

Domestic Carbons.

Solid.

High Tension Series Arc.

Specify	when or	dering	whether	moulded	or	forced

Code Word.	List No.	Inches.		List Price. Per 1000.
Salter	20969	7-16 x 12,	plain	. \$13.50
Saltern	20970		coppered	
Saltfish	20971	1-2 x 12,	plain	. 14.00
Saltfast	20972	1-2 x 12,	coppered	. 14.00
Saltgauge	20973		plain	
Saltgreen	20974	5.8 x 12,	coppered	. 20.50
Soltier	20975	9-16 x 14,	plain	. 20.50
Saltierwise	20976	9-16 x 14,	coppered	. 22.00
Saltigrade	20977	5-8 x 14,	plain	. 21.70
Saltimbanco	20978	5.8 x 14,	coppered	. 23.70
Salting	20979	7-16 x 7,	plain	. 6.75
Saltire	20980		coppered	
Saltish	20981	1-2 x 7,	plain	. 7.00
Saltishly	20982	1-2 x 7,	coppered	. 7.00
Saltishness	20983		plain	
Salt;unk	20984	5-8 x 7,	coppered	. 12.00
Saltpeter	20985	1-2 x 9,	plain	. 9.50
Saltless	20986	1-2 x 9,	coppered	9.50
Saltlick	20987	5-8 x 9,	plain	. 13.00
Saltly	20988	5-8 x 9,	coppered	. 13.70

Coppered Solid Forced.

For Low Tension Series Arc.

Saltmarsh	20989	7-16	х	12	 				 									13.50
Saltmine	20990	1-2	x	12														14.00
Saltness	20991	5-8	x	12	 													20.50
Saltpan	20992	7-16	x	7	 													6.75
Saltpen	20993	1-2	x	7														7.00
Saltperlate	20994	5.8	x	7														12.00

For Constant Potential Lamps.

Uppers-Soft Cored.

Sault	21091	5-16	х	7	1	[-2													9.50
Sauncingbel	21092	3-8	х	7	1	-2													12.00
Saunders	21093	7-16	X	.7	1	-2													13.50
Saundersblu	e21094	1-2	х	7	1	1-2	١.												16.50
Saunter	21095	9-16	X	7	1	-2									,			 ,	17.50
Saunterer	21096	5.8	х	7	1	-2													24.00
Saur	21097	5.8	X	8	3.											 			25.50
Sauria	21098	11-16	х	8	١.														34.00
Saurian	21099	5-16	х	10	١.										,				13.00
Sauroid	21100	3.8	x	10	١.														16.50
Saurophagu	8 21101	7-16	x	10	١.							 							18.00
Saurg	21102	1.2	х	10).														22.00
Sausage	21103	9-16	х	10	١.														24.00
Sausswrite	21104	5.8	х	10	١.											 			32.00
Santerelle	21105	11-16	x	10	١														38.00





Domestic Carbons.—(Continued.)

For Constant Potential Lamps.

Uppers-Soft Cored.

Code Word.	List No.		List Price Per 1000
Sautern	21106	23-32 x 10	
Sauxegarde	21107	5-16 x 12	
Saxable	21108	3-8 x 12	
Saracan	21109	7-16 x 12	
Sarage	21110	15-32 x 12	
Savagely	21111	1-2 x 12	
Savageness	21112	9-16 x 12	28.0
Savagery	21113	5-8 x 12	
Savagism	21114	1-2 x 14	
Savana	21115	9-16 x 14	
Savant	21116	5-8 x 14	
Sace	21117	11-16 x 14	
Sareall	21118	3-4 x 14	
	21110	V	
		Lowers-Solid.	
2 22			
Saveloy	21119	5-16 x 6	
Saver	21120	3-8 x 6	
Savin	21121	7-16 x 6	
Saving	21122	1-2 x 6	
savingly	21123	7-16 x 7	
Savingness	21124	1-2 x 7	
Savingsbank	21125	9-16 x 7	
Savor	21126	5-8 x 7	
Savorily	21127	5-16 x 7 1-2	
Savoriness	21128	3-8 x 71-2	
Savorless	21129	7-16 x 7 1-2	
Saxorly	21130	1-2 x 71-2	
Savorous	21131	9-16 x 7 1-2	
Savory	21132	5-8 x 71-2	
Savoy	21133	1-2 x 8	
Savoyard	21134	5-8 x 8	
Saw	21135	5-16 x 9 1-2	
Savoie	21136	3-8 x 9 1-2	
Sampan	21137	7-16 x 9 1-2	
Samphine	21138	1-2 x 9 1-2	
Sample	21139	5-16 x 10	
Sampler	21140	3-8 x 10	
Samshoo	21141	7-16 x 10	
Samshu	21142	1-2 x 10,	
tamsone	21143	3-8 x 12	
Samsonspost	21144	7-16 x 12	
Sanability	21145	15-32 x 12	
Sanable	21146	1-2 x 12	
Sanableness	21147	17-32 x 12	
Sanation	21148	9-16 x 12	
Sanative	21149	5.8 x 12	34.0



Domestic Carbons.—(Continued.)

High Tension Series Arc Cored.

Uppers-Cored.

Code Word.	List No.	Inches.	List Price. Per 1000.
Sanativeness	21150	7-16 x 12	10.00
Sanatory	21151	1-2 x 12	10.00
Sanbenito	21152	5-8 x 12	13.50
Sancebell	21153	1-2 x 14	11.50
Sanctebell	21154	9-16 x 14	14.00
Sanctificate	21155	5-8 x 14	16.00
Sanctification	21156	11-16 x 14	18.00
Sanctimonio	21157	3-4 x 14	20.00
Sanctimony	21158	Special Bottoms—Solid.	5.00
Sanction	21159	1.2 x 7	
Sanctionary		5-8 x 7	
Sunctitude	21161	5.8 x 9	
Sanctify	21162	3-8 x 10	
Sunctum	21163	1.2 x 10	
Sanctus	21164	3-8 x 12	
Sand	21165	7-16 x 12	
Sanda	21166	15-32 x 12	
San	21167	1-2 x 12	10.00

"Helios."

Direct Current Carbons.

Cored.

Millimeters.	Inch	es.	Price.	Millimeters.	Inches,	Price.
12 x 160	15-32 x	6 5-16	\$14.00	10 x 255	3-8 x 10	\$16.60
15 x 160	19-32 x	6 5-16	18.50	11 x 255	7-16 x 10	18,40
18 x 160	23-32 x	65-16	26.00	12 x 255	15-32 x 10	20.00
8 x 190	5-16 x	71.2	9.60	13 x 255	1-2 x 10	22.15
10 x 190	3-8 x	7 1-2	12.35	14 x 255	9-16 x 10	-24.00
11 x 190	7-16 x	71-2	13.75	15 x 255	19-32 x 10	27.50
12 x 190	15-32 x	71.2	15.00	16 x 255	5-8 x 10	32.25
13×190		71-2	16.50	18 x-255	23-32 x 10	40.00
14 x 190	9-16 x	71.2	17.85	20 x 255	25-32 x 10	48.00
15 x 190	19-32 x	71-2	20.50	25 x 255	1 x 10	70.00
16 x 190	5-8 x	71-2	24.00	8 x 305	5-16 x 12	15.40
18 x 190	23-32 x	71-2	31.00	10 x 305	3-8 x 12	20,00
13×205	1-2 x	8	17.80	11 x 305	7-16 x 12	22.00
16 x 205	5-8 x	8	25.75	12 x 305	15-32 x 12	24.00
18×205	23-32 x	8	33.00	13 x 305	1-2 x 12	26,40
12 x 240	15-32 x	9 1-2	19.00	14 x 305	9-16 x 12	28.65
15 x 240	19-32 x	9 1-2	27.00	15 x 305	19-32 x 12	33.00
18 x 240	23-32 x	91.2	39.00	16 x 305	5-8 x 12	38.60
8 x 255	5-16 x 1	10	12.90	18 x 305	23-32 x 12	50.00





Domestic Carbons—(Continued.)

"Helios." — (Continued.)

Direct Current Carbons.

Solid.

Millimeters.	Inches.	Price.	Millimeters.	Inches.	Price.
8 x 160	5-16 x 6 5-	16 s 7.00	14 x 190	9-16 x 7 1-2	\$16.50
10 x 160	3-8 x 65-		15 x 190	19-32 x 7 1-2	19.00
12 x 160	15-32 x 6 5-		16 x 190	5-8 x 71-2	22.00
8 x 150	5-16 x 6	6.50	10 x 205	3-8 x 8	11.60
10 x 150	3-8 x 6	8.65	12 x 205	15-32 x 8	15.00
11 x 150	7-16 x 6	9.75	13 x 205	1-2 x 8	16.00
12 x 150	15-32 x 6	11.00	8 x 240	5-16 x 9 1-2	10.40
13 x 150	1-2 x 6	12.00	10 x 240	3-8 x 91-2	13.90
14 x 150	9-16 x 6	13.00	11 x 240	7-16 x 9 1-2	15.60
15 x 150	19-32 x 6	15.00	12 x 240	15-32 x 9 1-2	17.60
16 x 150	5-8 x 6	17.35	13 x 240	1-2 x 81-2	19.10
11 x 180	7-16 x 7	11.70	14 x 240	9-16 x 9 1-2	20.80
13 x 180	1-2 x 7	14.35	15 x 240	19-32 x 9 1-2	24.00
14 x 180	9-16 x 7	15.65	16 x 240	5-8 x 91-2	27.75
15 x 180	19-32 x 7	18.00	10 x 255	3-8 x 10	14.70
16 x 180	5.8 x 7	20.85	12 x 255	15-32 x 10	18.70
8 x 190	5-16 x 71-	2 8.25	13 x 255	1-2 x 10	20.00
10 x 190	3-8 x 71-		15 x 255	19-32 x 10	25.50
11 x 190	7-16 x 7 1-		16 x 255	5-8 x 10	29.00
12 x 190	15-32 x 7 1-		11 x 305	7-16 x 12	19.50
13 x 190	1-2 x 71-		13 x 305	1.2 x 12	24.00

Helios Cored Carbons.

Alternating.

Millimeters	Inches.	Price.	Millimeters.	Inches.	Price.
11 x 240	7-16 x 9 1-2	\$19.00	15 x 150	19-32 x 6	\$18.50
12×160	15-32 x 6 5 16	14.00	15 x 160	19-32 x 6 5-16	19.00
12 x 240	15-32 x 9 1-2	20.00	15 x 190	19-32 x 7 1-2	22,50
12 x 280	15-32 x 11	23.50	15 x 205	19-32 x 8	24.00
13 x 150	1-2 x 6	14.25	15 x 240	19-32 x 9 1-2	28.00
13 x 160	1-2 x 65-16	15.00	15 x 255	19-32 x 10	29,50
13 x 190	1-2 x 71-2	17.50	15 x 280	19-32 x 11	32.00
13 x 205	1-2 x 8	19.00	16 x 190	5-8 x 712	25.00
13 x 240	1-2 x 91-2	22.00	16 x 205	5-8 x 8	27.00
13 x 255	1-2 x 10	23.50	16 x 240	5-8 x 91-2	31.00
13×280	1 2 x 11	25.50	16 x 255	58 x 10	33,00
14 x 190	9-16 x 7 1-2	21.00	20 x 160	25-32 x 6 5-16	30.00
14 x 240	9-16 x 91-2	25.50	20 x 240	25-32 x 9 1-2	45.00



Imported Carbons.

"Sun-Schmelzer-Nurnberg."

Cored Carbons for Direct Current.

Code Word.	List No.	Diam. in MM.	Diam. Length	List Price Per 1000
Sandmyrtle	21198	11	7-16 x 7 1-2	\$14.70
Sandmartin	21199	11	7-16 x 10	
Sandpaper	21200	11		23.00
Sandpiper	21201	13	1-2 x 71-2	
Sandpride	21202	13	1-2 x 10	
Sandrock	21203	13	1-2 x 12	28.00
Sandsmelt	21204	14	9-16 x 7 1-2	
Sandstar	21205	14	9-16 x 10	
Sandstone	21206	14	9-16 x 12	
Sandstorm	21207	15	19-32 x 6 1-2	
Sandtube	21208	16	5-8 x 7	23.00
Sandieusp	21209	16	5-8 x 71-2	25.25
Sandwich	21210	16	5-8 x 10	
Sandworm	21211	16	5-8 x 12	40.50
Sandwort	21212	18	11 12 10	43.00
	So	lid Cart	ons for Direct C	urrent.
Sandy	21213	8	5-16 x 6	7.00
Sane	21214	8		7.00
Saneness	21215	8		0.00
Sang	21216	10	3-8 x 6	
Sangaree	21217	10	3-8 x 61-2	9.25
Sangfroid	21218	10	3-8 x 71-2	3.70
Sangiae	21219	10	00 010	11.00
Sangreat	21220	11		
Sangnifier	21221	11	7-16 x 7	10.35
Sanguify	21222	11		
Sanguinary	21223	11		
Sanguine	21224	11		
Sanguineless		11	7-16 x 12	
Sanguinely	21226	13		
Sanguinity	21227	13	10 -	
Sanhedrim	21228	13		
Saniele	21229	13		
Sanies	21230	13		
Sanious	21231	14	9-16 x 7	
Sanilarist	21232	16		
	21232	1.,	0-0 X 1	21.25
	Cored	Carbon	for Alternating	Current.
Sanitarium	21233	13	1-2 x 71-2	21.25
Senitary	21234	13		27.00
Sanity	21235	15	19-32 x 7 1-2	27.15
Sanjek	21236	15		34.50
Sank	21237	16		
				33.30



Imported Carbons

Wertheim

Solid

	LENGTHS.														
Diam. Inches.	6 Inch per 1000	7 Inch per 1000	8 Inch per 1000	9 Inch per 1000	10 Inch per 1000	11 Inch per 1000	12 Inch per 1000								
14	\$22.00	\$22.00	\$23.00	s23 00	\$24 00	\$24.00	s24 00								
100	23 00	24.00	25.00	26.00	27 00	28.00	28.00								
38	24.00	25.00	26 00	27 00	28.00	29.00	30.00								
T'e	26.00	27 00	29*00	30 00	32 00	33.00	34.00								
1/2	27.00	28 00	30 00	31 00	33 00	34.00	36 00								
17	28.00	30.00	31.00	33 00	35 00	36 00	38.00								
10	29 00	31 00	33 00	34.00	36 00	38.00	40.00								
5%	32.00	35 00	37 00	40 00	42 00	44.00	47.00								

Soft Cored.

Diam. Inches	6 Inch per 1000	7 Inch per 1000	8 Inch per 1000	9 Inch per 1000	10 Inch per 1000	11 Inch per 1000	12 Inch per 1000
14	\$22 00	\$22 00	\$23 00	\$24.00	\$25.00	s25.00	\$26.00
10	24.00	25.00	26 00	27.00	28.00	29.00	30.00
3/8	25.00	26.00	27 00	28.00	29.00	30.00	32.00
7'6	27.00	28.00	30.00	31.00	33.00	34.00	35.00
1/2	28.00	29.00	31.00	32 00	34.00	35.00	37.00
17	29 00	31.00	32.00	34.00	36.00	38.00	39,00
12	30 00	32.00	34,00	36.00	38.00	40.00	42.00
56	33 00	36.00	38.00	41.00	43.00	46.00	48.00
11	36.00	39 00	42.00	45.00	48.00	50.00	53.00
55	37.00	* 40 00	43.00	47.00	50.00	53.00	56.00

For Direct Current Arc Lamps.

Soft Cored Uppers.

Diam- eter	Length.	Per 1000.	Diam- eter Length	Per 1000	Diam- eter, Length	
1 x x x x x x x x x x x x x x x x x x x	7% "	. 17.60 . 19.00 . 25.50 . 33.75	11 x 10 " 12 x 10 " 13 x 10 "	23,70 25,50 . 34,30 . 43,15 . 53,75	72 x 12 i 1 x 12 i 1 x 12 i 1 x 12 i	" 28.15 " 30.50
			Solid Lov	vers.		

Dia	m-	Let	ngtl	1		Pe	er e.	1			Length.				Length	Per 1000
1/4	X	6	in		. 5	7	.00		Ř	X	7 in.	.\$21 60	10	X	9½ in.	.\$11 15
9	X	6	6+			9	30		80	X	71/2 in.	8.75	1	X	91/2 " .	. 14.75
20	Х	6	64			10	40		1	X	71/2 "	. 11-60	178	X	91/2 " .	. 16.60-
+	X	- 6	*6			12	80	,	30	Х	71/2 "	. 13.15	1	X	91/2 "	, 20.40
12	X	7	16			12	.15	1			71/2 "				10 in	
Ť.	Х	7	16			14.	.90	- 1	16	X	8 "	. 15.40	1	X	10 " .	21.50
9	v	7	61			16	95	- 1	1	v	N 41	17 20	1			

"Electra" Solid Carbons.

For Enclosed Arc Lamps.

			Per 1000	1	Per 1000
4	x	12	ins37.90	3. x	12 in \$30.70
i	X	10	" 31.55		10 " 25 . 60
į.	X	93		72 X	94 " 24.30
À	X	78		22 X	6 " 15.20
i	X	6	" 19.00		44 " 12,15
À	X	54	" 17.40	a x	12 " 28.20
ű	X	5	" 15.85	2 X	6 "
1	x	47	"		

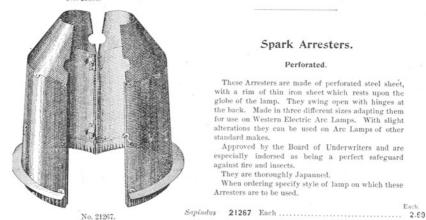


No. 21355.

Spark Arresters -.

Arrester No. 21355, made with heavy frame and fine wire gauze. Hinges at back and fitted with latch in front. Standard size 12 inches high; diameter at bottom 10 inches; diameter at top 6% inches.

Code Word,	List No.	List Price Each
Sarrolemma	21355	Each \$4.00



Spark Arresters.

Perforated.

These Arresters are made of perforated steel sheet, with a rim of thin iron sheet which rests upon the globe of the lamp. They swing open with hinges at the back. Made in three different sizes adapting them for use on Western Electric Arc Lamps. With slight alterations they can be used on Arc Lamps of other standard makes.

Approved by the Board of Underwriters and are especially indorsed as being a perfect safeguard against fire and insects.

They are thoroughly Japanned.

When ordering specify style of lamp on which these Arresters are to be used.

U^0	
	M
4	

No. 8725.

No. 8726.

Carbon Bags.

East

8726 Extra Heavy Leather Carbon Case...... 4.25 Ehenezer



No. 21055.

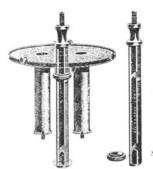
Rae Store Reflector.

For T.-H. Double Carbon Lamps.

Has a special opal shade which concentrates the bulk of the light on the goods, thus utilizing the light commonly wasted on the ceiling. Combines the intensity of the arc-lamp with a uniform and effective distribution of the light. Also has a clear glass chimney (with opal ventilating top) which serves as a spark arrester, thus making a complete fitting for Arc Lamps in store or show windows.

Does not interfere with the trimming of the lamp. Approved by New York and Chicago underwriters.

Code Word.	List No.	L	ist Price.
Sambo	21055	Complete	



No. 21056.

Cutter's Globe Holder.

For T.-H. Arc Lamps.

'A Time Saver and a Globe Saver."

Takes the place of the sliding tube and set-screw formerly used. It has no tube to dent and crack, and no screw to jam or bend. A quarter turn of the ring allows the globe to be lowered or raised, and another quarter turn removes it entirely. It is simple, strong and positive in its action. The globe is held securely when raised, yet can be instantly lowered without the use of tools.

nelse



No. 21057.

Pattee Lamp-Hour Recorder.

"A Common Sense Meter for Arc Lamps."

(PATENTED.)

Has a fifteen day clock movement which is controlled by an electro-magnet so as to keep an accurate count of the burning hours. Needs re-winding but once a month (when the readings are taken). The magnets consume an inappreciable amount of energy and the reading is easily checked by comparison with a watch, so that there can be no complaints from the consumer.

It is simple, well built and practical.



No 626.

Arc Lamp Globes.

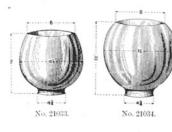
Our Arc Globes are of the best quality of glass and uniform in appearance. They are carefully packed, but shipped only at owner's risk. Two dozen globes are packed in regular size cask, for which we charge \$1.50 extra uct.

		Clear.			
List No.	Diameter.	Height.	Top Open-	Bottom Open- ing, Outside Diam, Inches	List Price Per Dozen
626	12	12	6		511.00
627	12	12	8		11.00
628	12	12	8	5	11.00
629	12	12	71	34	11.00
630	12	10	8	4	11.00
631	12	12	8	5	11.00
632	12	12	8	$2\frac{1}{2}$	11.00
633	12	11	9	41	11.00
634	11	12	8	41	11.00
635	11	12	8	42	11.00
		Opal.			
636	12	12	6	24	12.00
637	12	12	8		12.00
638	12	12	8	5	12.00
639	12	12	73	34 .	12.00
640	12	10	8	4	12.00
641	12	12	8	5	12.00
642	12	12	8	21	12.00
643	12	11	9	41	12.00
644	11	12	8	41	12.00
645	11	12	8	44	12.00
		Ground			
646			6	91	12.00
					12.00
648	12				12.00
649	12	12			12.00
650	12	10	8		12.00
651	12	12	8		12.00
652	12	12	8	24	12.00
653	12	11	9	41	12.00
654	11	12	8	. 41	12.00
655	11	12	8	44	12.00
	627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645	626 12 627 12 628 12 629 12 630 12 631 12 632 12 633 12 634 11 635 11 636 12 637 12 638 12 640 12 641 12 642 12 643 12 644 11 645 11 646 12 647 12 648 12 649 12 650 12 651 12 652 12 653 13 654 11	List No. Diameter. Inches. Height. Inches. 626	List No. Diameter. Inches. Height. Top Open.	Diameter Height Top Open Ref of the Open Diameter Tabless Top Open Diameter Diam Inches Diam I

Arc Lamp Globes.—(Continued.)

Globes for Western Electric Arc Lamps.

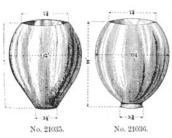
Are Light Globes can be furnished in colors, but prices are governed by the quantity. In handling Are Light Globes extra charge is made for packing when orders are less than original packages.



Clear.

Code Word.	List No.	Diam. in ins.	Height inches.	Top Opening in ins.	Bottom Opening in ins.	List Price. Per doz.
Salutiferous	21033	1016	10	8	434	\$11.00
Salcability	21034	12	12	8	434	11.00
Salcable	21035	12	14	794	31/2	14.00
Salvableness	21036	1214	14	734	314	14.00

One-Quarter or One-Half Ground.



	Salvage	21037	101/2	10	8	434	12.00
	Salcatella	21038	12	12	8	434	12.00
	Salcation	21039	12	14	734	31/2	16.00
	Salcatory	21040	1214	14	734	31/4	16.00
1			Full G	round o	r Opal.		
7	Salce	21041	101/2	10	87	434	13.00
,	Salcer	21042	12	12	8	4%	13.00
	Salvershaped	21043	12	14	734	31/2	18.00
	Sali	21044	121/4	14	734	334	18.00
			A	labaste	r.		
	Salvific	21046	7	10	7	7	20.00
	Salro	21047	7	4.56	7	7	20.00

Q.



No. 21046.

No. 21047.

No. 21033 is for the old style, low tension Western Electric Arc Lamps.

No. 21034 is for both the wide and narrow frame Western Electric Standard Lamps; also for either the Monitor or Duplex Lamps, both wide and narrow frame, and the old style double Carbon lamps.

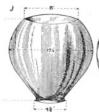
No. 21035 is for the ornamental series lamps and the ornamental constant potential lamps.

No. 21036 is for the encased single lamps and new style double Carbon lamps, narrow frame.

No. 21046 is for ornamental series single Carbon lump fitting above the regular globe.

No. 21047 is for the ornamental constant potential lamp fitting above the regular globe.

Both No. 21046 and 21047 act in a measure as spark arresters, as all of the working parts, the carbons and carbon rods are within an enclosed space. The use of these globes meets the approval of the underwriters,





Arc Light Globes—(Continued.)

Globes for Western Electric Arc Lamps-(Continued.)

Code Word.	List No.	Diam. in ins.	Height in, ins,	Top Opening in ins.	Bottom Opening in ins.	List Price per doz.
Silty	23076	121/2	12	8	434	16.00
Abovo	Globe for	Western	Electric I	Cocusing	Chain I.	amn

Globe Nets.

Static Arresters.

Electric discharge from belts will often perforate the insulating material of a dynamo or of cables connected thereto. Our arresters form a high resistance path for the electrical discharge from the frame of the dynamo to ground. They are made in two styles, No. I Graphite, No. 2 Liquid.

Sarcodern	21353	Graphite,	each	 1.40
Sarcoid	21354	Liquid	44	 1.70

Improved Adjustable Lamp Hanger.

This Hanger is designed for use with any form of arc lamp, either high or low tension, and is well apapted for operation of arc lamps upon incandescent circuits.

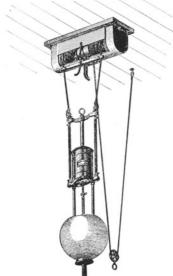
The important features in connection with this hanger are the suspension of the lamps by the conducting cords direct, insuring perfect electrical contacts and adequate support. The ratchet and arm are so combined with the rope used in raising and lowering the lamp, that breakage of the rope or careless handling cannot cause the lamp to fall. The automatic switch so constructed that when the lamp is lowered it is completely disconnected from the circuit and when raised to the proper height it is again placed in circuit—this being done automatically insures absolute safety for the attendant and avoids interference with other lamps on the same circuit

These Hangers are mounted upon slate bases, equipped with brass terminals having perfect electrical connection with the roller mechanism and switch. The roller is made of cast iron and coated with glazed enamel, then covered with sheet asbestos, thus forming a positive insulation. An enameled iron cover is provided which adds to the appearance and serves as a protection to the cords and working parts. Conducting cords of any desired length within the capacity of the roller will be supplied, adapting the hanger for use on ceilings varying in height twenty-five feet down, or to be readily adjusted to different heights as circumstances may require.









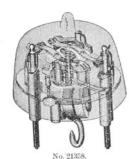
No. 21360. Showing Lamp attached.



Bell Hanger.

The use of "Bell Hangers" for Arc Lamps used outside is becoming general, and is quite necessary when Arc machines of from 60 to 125 lights capacity are used. The ordinary form of lamp suspension has not sufficient insulation where such high voltages are used, and we have designed this type of hanger with a view to overcoming such troubles as are caused by poor insulation, insufficient support and contact at connections to circuit.

Code Word.	List No.		List Price.
Silure	23077	Bell Hanger	



Cut=Off Switch.

The complete Cut-off Switch is mounted on slate, and contacts are so arranged thal no are can be made in throwing on or off. The lamp is suspended from the hook in center, and is not in any manner dependent on the circuit wires for support, connection being made with circuit by means of plugs and suitable spring jacks, enabling the removal of the lamp from the circuit in less time than one-half minute, and with no personal danger. The casing and bell covering insulator are of metal, and render all the contacts thoroughly water-proof.

Sarcologic 21358 Complete, with plugs and cords 8.00



Bell Hanger and Cut-Off Switch Combined.

It is advisable in case of high voltage to use the Bell Hanger in connection with the Cut-off Switches to insure perfect srfety. This combination is shown in illustration No. 21359.

Sarcologist 21359 Complete, with bell hanger 9.40



No. 6502



No. 20895.



No. 20777.



S

Fletcher Insulating Arc Lamp Hangers.

(PATENTED.

Are not only convenient for attaching lamps to their fastenings in all positions, but save loss of current from any and all conditions to which lamps may be subjected.

Code Word.	List No.		Price ach
Ecliptic	8703	Each	

Fletcher Insulating Lamp Hanger.

Three Knobs.

(PATENTED.)

Same as No. 8703, with the addition of a knob on each side, to which current wires may be attached before entering binding posts of arc lamps. Especially useful where commercial lamps are placed in front of or inside stores, hotels, theatres, etc.

Salicine	20395	Complete	.40
----------	-------	----------	-----

Cutter Revolute Insulator.

For Arc Lamps.

Has the insulating knob mounted on a porcelain base so as to turn freely, and is secured to the ceiling by two screws. Makes a firm support with a double insulation between the wire and the ceiling.

The insulating knob can be easily removed and the wire placed above it, taking the weight off the tie wire.

Sufeconduct 2	0777	Complete, each	. 12

Cutter Ceiling Hook.

For Arc Light Wiring.

A simple, compact and strong insulator for supporting indoor are lamps. The shell and hook are of malleable iron, while the porcelain is solid at the back so as to exclude moisture. The hook is so shaped that the lamp cannot be accidentally lifted off it in trimming.

alicomia	20896	Complete	 30



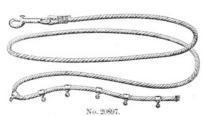
Cutter Arc Insulator.

It will insulate the frame of the lamp from the hoisting rope or suspension hook.

Made with a double petticoat hard rubber bell, which forms an effective watershed.

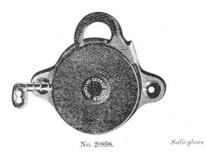
 Code Word.
 List No.
 List Price. Each.

 Safe
 20776
 Complete.
 \$.40



Cutter Trimmer's Snap Rope.

Consists of a 30-foot length of half-inch rope with a snap-hook at one end and six rings clamped to the rope near the other end. This is used with hoisting ropes ending in a ring at the pole lock, and is carried by the trimmer on his rounds. The rings on the rope can readily be set at any desired points so as to vary the length of the "snap rope" to suit the varying height of lamps at different crossings.



Cutter Pole Lock.

(PATENT APPLIED FOR.)

A weather-proof lock for securing the end of the hoisting rope, as used with arc or incandescent suspension lamps. Is quickly put up and prevents tampering with the rope.

Has the back curved to fit the pole, is strong and perfectly weather-proof. The only pole lock adapted for electric light suspensions.



Fletcher Improved Pole Padlock.

Very necessary for use where flexible iron cord is used with ring attachment at end. By using this Padlock the trimmer needs only a bridle-snap and piece of rope of sufficient length to lower his lamps.

20889 Complete

Salience

30



No. 2852.

Lamp Cross Arm.

List Price. Code Word. List No. 2852 Each \$ 0.25 Economy



Cutter Combination Cross Arm.

Combines the fine and weatherproof Cutter's Arc Insulator, with a spreader cross-arm for the line wires. The cross-arm is of enameled wood, tipped with metal ferrules to prevent splitting.



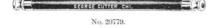
Fletcher Insulated Cross-Arm.

Saleratus

Cutter Featherweight Spreader.

For Arc Light Wires.

Is readily fastened to the wires running to suspension lamps so as to keep them at a distance of seventeen inches from each other. Made of enameled wood, metal tipped with porcelain insulators. Weighs less than eight ounces.





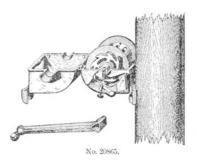
No. 20880.

Safekeeping 20779 Complete, per 100 15.00

Cutter Brace Arm.

This Brace Arm consists of an insulating arm securely bolted to a specially designed plate which fits the pole. It is more easily and more quickly put on than the ordinary cross arm with its pins and insulators, besides making a much neater job.

Each.



Windlasses.

Western Electric.

The Western Electric Windlass was designed for a quick-raising, self-locking and absolutely safe windlass. The drum is large and entirely enclosed, except a slot at the top for the wire to pass through, and it is thoroughly sleet-proof.

The self-locking device on the side makes it impossible to release without the aid of the special crank.

It is light, compact and durable, and is easy to put in service and will fit any size of pole.

Code Word.	List No.	List Price.
Sake	20865	Complete
Sacker .		Without handle 2.50
Suckeret	20867	Handle only





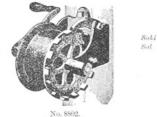
No. 20868 and No. 20869.

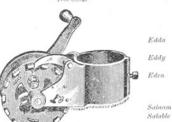
Cutter Combination.

Combines the extra leverage of a geared windlass with the safety of a locking windlass, and the low cost of a plain windlass. The pinion is detachable, and is secured to the light nandle, which also operates the locking cam. One of these pinion handles is sufficient for all the windlasses on a trimmer's route.

lasses on a trimmer's route.

You can use this device as a plain windlass for quick lowering, and then use the gearing in raising the lamp. This windlass will take fifty feet of five-sixteenth inch cable, or forty feet of three-eight inch.





No. 20870.

Salably

20868	Without Handle	2.75
20869	Pinion Handle	1.00

The Fletcher Safety. For Wood Poles.

With Lock and Key.

8802	Fletcher's Safety Windlass (takes 35 feet iron	
	flexible cord	2.50
8803	Fletcher's Safety Windlass (takes 75 feet flexible	
	iron cord, or 40 feet rope)	3.00
8804	Handle (or Crank) for either above Windlasses.	1.00
	For Iron Poles.	

I of front roles.					
20870	Windlass (takes 35 feet iron flexible cord)	3.50			
20871	Windlass (takes 75 feet iron cord or 35 feet half-				
	inch rope)	4.00			
20872	Handle (or crank) for above	1.00			



No. 8805.

Fletcher Sleet-proof Pulleys.

Code Word.	List No.					ist Pri Each	
Edgar	8805	Medium,	for	1/2-inch	rope		
Edge	8806	Midget,	66	14-inch	rope		50
Edgewise	8807	Jumbo,	66	1-inch	rope	. 1.	00

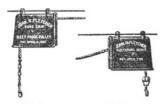


Fig. 1. Shows position of ord when lamp is eing drawn into sus-

Fig. 2.

Shows position of cord when lamp is in suspension, with Fletcher's Insulating Lamp Hanger attached. Lamp Hanger is not a requisite part of the arrangement, and is only furnished when specially ordered.

No. 960.

20886.	No. 20887.	No. 20888.

Fletcher "Sure Grip" Sleet=proof Pulley.

The danger and expense incident to the falling of arc lamps from defects in pulleys used with rope or cord suspension, has suggested the need of a good sustaining pulley which, when lamp is drawn up, would hold it rigidly in position. The Fletcher "Sure Grip" Slectproof Pulley does this in a simple, effective manner.

No care is required on the part of the trimmer, nor is any extra weight added to weight of lamp when going into suspension; when lamp is in place high winds cannot release it, and trimmer is required to use only the ordinary amount of exertion in lowering it.

960	Fletcher "Sure Grip" Sleet-proof Pulley	
	(takes 1/2-inch rope)	1.50
	Includes everything necessary except rope.	

Fletcher Automatic Pulleys.

20886	Automatic Suspension Pulley	1.00
20887	Automatic Traveling and Suspension Pulley.	1.35
20888	Automatic Mast Arm Pulley	1.10
20000	Automatic Mast Arm Puney	1.1



Salebrous

Salaried Salary Sale

> Designed especially to be used where Pulleys are already up; can be used with any Pulley, either Sleetproof or open, and saves the lamp from falling should ropes become worn or otherwise imperfect.

Fletcher "Safety Lamp Support."

No. 958.



Code Word.	List No.		Price.
Edict	8808	Jumbo (takes 1-inch rope)	Each. \$0.75
Edifice	8809	Sleet-proof Pole Pulley (takes 1 inch rope	.35

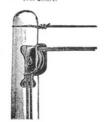
Fletcher Sleet-proof Pole Pulley.





Fletcher Swivel Pole Pulley.

No. 20884.



Fletcher Double Wheel Sleet-Proof Pole Pulleys.

Edify	8810	Takes ‡-inch rope	.75
Edifying	8811	Jumbo (takes 1-inch rope)	1.00

No. 8810.



Fletcher Duplex Sleet-proof Pulley.

With Two Wheels.

8704 Takes ½-inch rope 1.00 Edit

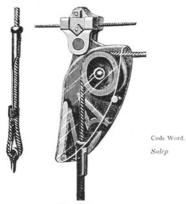
No. 8704.



No. 20885.

Fletcher Twin Sleet-proof Pulley.

Salamstone 20885 Takes 1-inch rope 1.00



Cutter Lamp Supporting Pulley.

A really weatherproof pulley for arc lamps. Entirely automatic, with no cams or pawls to get out of order. Catches the lamp when raised, releases it when about to be lowered, and never fails. There is a dead stop to the rope in each case so that you cannot pull it too far.

Cutter Swivel Pole Pulley.

Is swiveled so that it can swing sideways and keep in line with the hoisting rope. The supporting plate is made of malleable iron and curved to fit the pole. This

pulley avoids all chafing of the rope on the edge of the casing and thus saves the wear on the rope.

Salep

List No. 20889 Complete, with Hook Knob....

List Price.

No. 20889.



No. 20890.



No. 20891.

Cutter Mast Arm Pulley.

This is a form of the lamp-supporting pulley with a special clamp to fit iron pipe 11/4 or 11/2 in. inside diameter, as commonly used for mast arms.

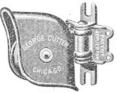
Has all the good feature of the regular lamp supporting pulley, and has holes in the head-piece so that the strain rods can be run direct to this.

Salework

20891 Complete



No. 20892.



No. 20893.

Cutter Interchangeable Pulley.

(PATENT APPLIED FOR.)

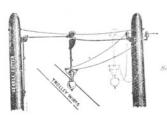
A thoroughly weatherproof pulley which will fit anything from a 3-16 inch suspension wire to an 8 inch pole. Has a double-grooved clamp to fasten it to the suspension wire, when it is used as a center pulley. By opening out the clamp it forms a pole-plate which fits the carved surface of the pole and which makes a fine swivel pole pulley.

Strongly made with malleable iron clamp.

		**		
Code Word.	List No.		I.	ist Price Each.
Saliant	20892	Center Pulley, complete		\$.40
Salie	20893	Pole Pulley, "		.40



No. 2 0894.



Cutter Running Pulley.

(PATENTED.)

The only safety pulley made for use over trolley wires. Holds the lamp securely when raised and allows it to be lowered close to the pole without interfering with the trolley or guard wires.

Furnished complete with covered "traveler" sheave, malleable iron hook knob and adjustable clamp stop.

Salicaceaux 20894 Complete 1.20



Arc Light Supplies.—(Continued).

Cutter Outrigger.

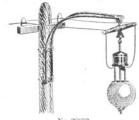
Has a head-piece of malleable iron with a double petticoat hard rubber bell insulating the lamp from the outrigger. This head-piece forms a cap for the wrought iron outrigger, which can be shortened by removing the cap and cutting off the extra length.

The wood cross-arms carrying the line wire insulators are waterproofed with a baked enamel, and-tipped with metal ferrules to prevent splitting. The inner one is supported by a malleable iron sleeve which can be clamped at any desired point so as to clear signs or projections in the building.

Code Word. List No

List Price

Salamander 20881 Complete as per cut (6 foot overhang) \$1.50



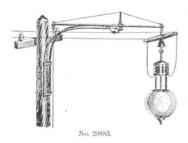
No. 20882.

Cutter Pole Arc Fixture.

Supports the lamp three feet from the pole, so as to bring it out of the line of the shade trees. Can be fastened at any desired height from the top of the pole, fits any size of pole and is more easily put up than a poletop fixture.

Is built of wrought iron with malleable iron fittings, making a very strong, firm and neat fixture. This is assembled before shipping so as to be readily bolted in place. Furnished with "combination cross-arm" for insulating the line wires from the fixture and from the lamp frame.

Salamandine 20882 Complete...... 2.50



Cutter Swinging Arc Fixture

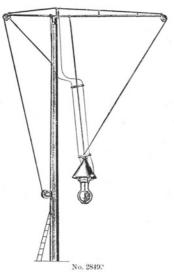
Consists of the Pole Are Fixture with an extension to bring the lamp five feet from the pole. The extension arm is pivoted so that it will swing down within reach of the pole when the lamp is to be trimmed. After trimming the extension is drawn back to place by the wire rod which hooks into a special socket botted to the pole (but not shown in the cut).

Wrought iron tubing, malleable iron fittings and steel strain rods give the fixture ample strength and firmness, while the "combination cross-arm" insures proper insulation.

Salamandroid 20883 Complete 3.50

Ear

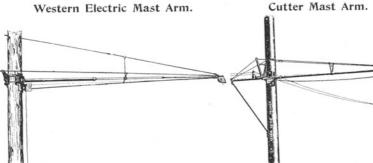
The Brady Mast Arm.



2849 15 Foot Extension, each \$ 14.00 Each additional foot

No. 2848.

2848 15 Foot Extension, each \$14.00 Eagle Each additional foot.....



No. 23086.

Silverless 23086 10 Foot Mast Arm, including two covered pulleys.... \$12.00 Each additional foot

Windlass for Mast Arm extra,

No. 23087. Silverly 23087 12 Foot Cutter Mast Arm complete with lamp supporting pulley at

outer end and covered pulley at pole, \$12.00 Each additional foot.....

Windlass for Mast Arm extra,



No. 21085.



No. 21087.

Incandescent Arc Lamps.

For Continuous Current.

The advantages of operating arc lamps on incandescent circuits as a matter of convenience, has of late years been fully realized.

The lamps are placed two in series on a circuit of 110 volts, and are adjusted to consume 10 amperes of current. Each lamp requires 45 volts to maintain a nominal 2000 candle power and the necessary amount of resistance is placed in circuit to compensate for the volts above the number used by the two lamps in series.

By dispensing with the ordinary series magnet in the lamp, and providing the feed magnet with cut-out device adapted to switch the feed magnet out of circuit automatically when the carbons are consumed to a certain point, any possibility of a burn out in a lamp is avoided.

The electrical and mechanical arrangement of the lamp is such that the carbons cannot become short-circuited while the lamp is in operation. Thus when a number of lamps are operated in series on the same circuit, they must necessarily be of the same candle power.

The resistance used with the lamp is connected directly to it as shown in the illustrations, and obviates the disfigurement of the lamp structure. It also facilitates the hanging of the lamp, and overcomes the objections made by the Fire Underwriters to the ordinary form of resistances which are inclosed in boxes placed upon the wall. This resistance may be varied according to the volts lost in the wiring. When it is not convenient to have the resistance connected directly to the lamp we can furnish resistance boxes in place of the coils.

Code Word.	List No.	1	ist Price.
Saucisson.	21085	Plain, with resistance coils	
Saucybark	21086	Plain, without resistance coils	30.00
Sa	21087	Ornamented, with resistance coils	48.00
Sauerkraut	21088	Ornamented, without resistance coils	44.00
Saul	21089	Resistance Box, only	22.00



Hood for Incandescent Arc Lamp.

With Resistance.

	Saulie	21090	Complete		10.00
1000	MILITEE	21030	Complete	 	10.00



No. 20873.



No. 20875

The Kreuger Theater Arc Lamps.

This lamp was designed and is especially adapted for use in theaters, halls and public buildings, and is without question the best means for obtaining brilliant lighting effects for stage work. It takes the place of the calcium light, and is far superior to it in many respects. It is easier to transport, is less dangerous, more reliable, and far more economical.

In the accompanying cut the lamp is shown attached to its supporting stand, equipped with a silvered parabolic reflector, but the lamp is so arranged that the reflector can be quickly and easily removed, and a lens box or Boomerang substituted for it, making it possible to use a single lamp for varied effects.

The illuminating power of the lamp is equal to 3,000 candles, and owing to the simple but ingenious regulating mechanism, the light is maintained at a very constant strength, The lamp is practically noiseless in its operation, and owing to the entire absence of any devices depending upon gravitation in the regulating mechanism, the lamp can be inclined to any desired angle without interfering with its operation and without re-adjustment.

In operating the lamp, connection can be made direct to the supply wires of a 110 volt constant potential lighting system, observing that the current passes downward through the carbons, and under these conditions the rheostat in the perforated cone at the base of the lamp will restrict the current passing through the lamp to the proper strength.

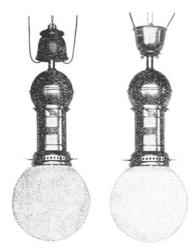
Attachments for Kreuger Theater Lamp.

The lens box is used when it is desired to concentrate the rays of light more or less according to adjustment. It is very useful in cases where it is desired to throw a strong stream of light upon a moderate sized object upon the stage, or to follow an object in its movements.

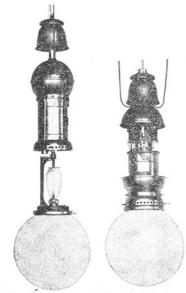
The Boomerang is used when a uniform dispersion of light over a considerable area is desired, which result is secured by means of a ground glass front. In front of the ground glass is provided a color frame, open at both sides so that frames can be slid through in succession and the colors changed without showing the white light.

These lamps and attachments are carried in stock and can be supplied promptly on receipt of order.

Price.
00.00
25.00
24:60
30.00
10.00
8:00
0.00
2.10
2.60
3.20
2 2 4 4



Adapted for Outdoor Use. Adapted for Indoor Use.



Showing Globe lowered ready for trimming.

Showing Mechanism.

Western Electric Long-Burning Enclosed Arc Lamp.

The first illustration shows the lamp arranged for outdoor use. The bell which encloses the rheostat is turned down. The position of the bell can be changed to that shown in the illustration of lamp for indoor use. The stem of the lamp can be made any length to suit the height of the ceiling.

The third illustration shows the manner in which the globe is handled and the lamp trimmed. The globe is lowered and is held in position as shown by the construction of the lower portion of the carbon holder or side arm.

The lamp requires half-inch carbons, one 12 inches long and one 5 inches long.

The fourth illustration shows the mechanism in plain view, and in order to get at this mechanism all that is necessary is to slip the shell down. The switch is of a quick break pattern and can be reached and manipulated easily from the ground with a pole. The switch handle is just above the name plate as shown in the illustration, The lower carbon holder and enclosing globe are made removable, simplifying the trimming. The clutch mechanism requires the least amount of energy to operate it, roller bearings being used to lessen the friction.

There is no shadow cast by the globes. They are a true sphere in shape and closed at the bottom.

The lamps can be operated singly on 110 volts, two in series on 220 volts, or five in series on 550 volts. They distribute light uniformly, burn steadily, are noiseless, and the mechanism is simple and strong.

The standard lamps are of a dark or oxidized copper

An ornamental brass lamp can be furnished and also other finishes upon special orders.

Prices on Arc Lamps quoted on Application.

E TOTAL STREET

Туре "А."

The Rushmore Projectors and Search-Lights.

Type "A" Projector.

This is a high power Projector, possessing all the advantages of the best lights formerly used in the Navies, giving an intensity estimated at one million candle power per ampere in the arc, and is entirely free from the complicated mechanism which has made it necessary for every warship to carry a corps of "Search Light Experts" to keep them in working order. The apparatus consists essentially of a cylinder which is entirely empty except for the slender carbon holders which cast no shadow, and the lamp is placed in a small case below the cylinder. In the rear cover is mounted the new lens mirror, and the arrangement, as will be seen by the following illustrations, is such that all the light from the carbons is thrown upon it. There is no light lost, and by reason of the central position of the carbons it is possible with the new lens to cause the light to be projected in a narrow beam, spreading to but 100 feet at a mile distance, or to spread it out as wide as desired for making landings, etc., which is accomplished by simply turning a small hand wheel shown on the lower lamp case. This device dispenses with the heavy and costly double diverging lenses placed in the front of the old navy lights, which are a constant expense and annoyance by breaking.

This type projector is designed particularly for the largest steamships, but is made in all sizes down to the smallest yacht light, as will be seen by price list.

Diam- eter. inches	Amperes.	Plain Iron Japanned	Iron Frame Polished Brass Cylinder	Black Brass Frame Polished Cylinder	Ali Brass Polished All Over,	Height to Center of Cylinder Inches.	Weigh Com- plete Lbs
10	5 to 10		s375 00	\$405.00	\$445.00	18	55
14	10	\$375 00	400 00	440 00	490.00	27	80
14	20	385.00	410.00	450.00	500.00	27	80
14	25	395.00	420 00	460 00	510 00	27	80
18	35	470.00	505 00	565 00	625.00	30	165
18	45	495.00	530 00	590 00	650,00	30	165
26	60	900.00	960 00			58	365
26	80	975 00	1095 00			58	365
34	100	1500 00	1600 00			58	450



Pilot House Projector. Type "D."

This apparatus is the same as the Type "A" Projector just described, but mounted in a special U frame, adapting it for use on the roof of the pilot house. A controlling shaft arrangement, as shown, extends below, by means of which the light is readily thrown in any direction by the man at the wheel. With this arrangement it may be controlled with even greater case than can the deck lights, as the operator is away from the glare of the intense beam, and the light being overhead can be directed with perfect accuracy.



The Rushmore Projectors and Search-Lights. (Continued.)

Pilot House Projector. Type "D."-(Continued.)

Illustration shows the projector with front and back doors opened, and it will be readily seen that anyone can place the carbons in the holders, and should they not be of proper length for focus of the light, the lamp may be instantly shifted to bring it to focus, and thus it is not necessary to have the carbons of an exact length. This will be appreciated by those who have used the old style search lights which it was necessary to take to pieces to replace the carbons and which could never be trimmed in the dark as is often required where the apparatus has been neglected by day.

Other forms of this projector have means of controlling the light when placed away from the pilot house.

Diam- eter. inches.	Amperes.	Plain Iron Japanned	Plain Iron Polished Brass Cylinder	All Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches.	Weight Complete Lbs
10	5 to 10		\$475 00	\$505 00	s545 00	18	65
14	10	\$475 00	500 00	540 00	590.00	27	100
14	20	485.00	510 00	550 00	600.00	27	100
14	25	495 00	520 00	560.00	610.00	27	100
18	35	570 00	605 00	665.00	725.00	33	190
18	45	595 00	630 00	690.00	750.00	33	190
26	60	1000 00	1060 00			38	325
26	80	1075 00	1195 00			38	325
34	100	1600.00	1700 00			40	480

The Lens.

An important feature of the projectors is the new corrective Aplantic Lens which differs from all other lenses previously used, in that it has a corrective principle which compensates for the area of the carbons. In the common mirror the actual focus is an infinite point, but as the large carbons have a crater of considerable area, such lenses cannot give a perfectly straight beam. By the new design this difficulty is largely overcome. The lenses are of wonderfully strong focus. They are made of a special grade of glass and the latest type machinery is used for their finishing.

The Concentric Lamp.

The new Concentric Lamp has but a single spool magnet and two gear wheels. It feeds with a power of over thirty pounds at all angles or vertically and its adjustment is permanent and simple.

Projectors in the Fog.

The light is concentrated to a single narrow beam which causes very little reflection to annoy the pilot, but in real fog a light, no matter how powerful, if thrown horizontally, is worse than useless, as it can penetrate but a short distance, and by its reflection serves only to blind those on watch. It is well known that fog lies close to the water and, to take advantage of this fact, the projectors are constructed to throw a light in a vertical direction when required. In this way the beam easily





The Rushmore Projectors and Search-Lights.

(Continued.)

Projectors in the Fog .-- (Continued.)

penetrates the layer of mist and throws a bright, round spot on the sky which is readily seen by other vessels, and by a suitable switch the light may be flashed to give any signals desired.

Search Lights for Electric Railways.

As an advertising device there is nothing so successful as the Electric Search Light, particularly where the object is not to attract people merely by curiosity, but for the purpose of viewing the effects at a distance.

Nearly all electric railways have extended their lines to some popular resort, or have established parks of their own. These are usually on high ground, and in such cases one of the most attractive features that could be added is a powerful search light. This apparatus when so ordered, is built to work on the regular power circuits and is not affected by fluctuations in the voltage common at the end of trolley lines. It has been found that where this apparatus has been installed for this purpose it has in a short time more than paid for itself by increased receipts.

Plain Reflector Lights. Type "B."

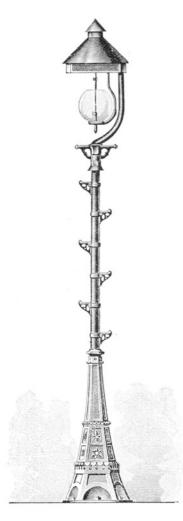
Old style common reflector search light. It is radically different from the projectors, as it has a silver-plated sheet copper reflector of the locomotive type. The construction is very simple. The lamp movement is similar to that used in the projectors and has permanent adjustment. It is easily cleaned and supplied with new carbons and is intended for rough service and short range work.

Dlam- eter. inches	Amperes	Plain Iron Japanned	Plain Iron Polished Brass Cylinder	Ail Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches	Weight Complete Lbs.
	10 to 25 30 to 40	\$260 00 370 00	\$300 (A) 430 (A)	\$360 00	\$420.00	30 38	150 250

Plain Pilot House Reflector Light. Type "C."

This apparatus is the same as Type "B," mounted in a special U frame, adapting it for use on top of pilot house. See description of Type "D."

Diam- eter inches	Amperes	Plain Iron Japanned	Plain Iron Polished Brazs Cylinder	All Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches	Weight Com- plete Lbs.
	10 to 25 30 to 40	\$340 00 448 00	6390-00 510.00	\$450 00	\$510.00	33 38	180 280



The Columbian Street Lamp Post.

PATENTED.

For supporting arc lights for street illumination a domand has arisen for a post which, in addition to filling the well-known electrical and mechanical requirements, shall present a symmetrical and pleasing appearance to the eye. A glance at the accompanying illustration will show the success that has attended our efforts in this direction.

The lower part of this post, which is of cast-iron, has a broad circular base, which, when bolted to the side-walk, gives the post great stability. Above the base the post assumes a hexagonal form and arises in graceful curved faces, paneled and ornamented in a tasteful manner. One of the panels is hinged so that it may be opened to give access to the switch. The wooden portion of the post extends downward through the cast-iron base to the sidewalk, and above the base is provided with neat malleable iron steps, while at its upper extremity is carried a single side-arm lamp support equipped with switchboard and hood. The cover of the hood can be placed at any angle so that the street names will be parallel with the intersecting streets. The height over all is about 21 feet.

There are about 1,500 posts similar to this now in use on the Electric Light plant of the city of Chicago.

We manufacture these posts with ornamental supporting arm for the lamp in place of the ordinary street hood, for boulevards and parks.

In addition to the Columbian Lamp Posts we are prepared to furnish posts of special designs to suit the purchaser. We will submit drawings on application.

List No.	List Price, Each,
21168	Post, complete, without lamp \$110.00
21169	Extra Switches 4.50
21170	Extra Doors and Locks 4.50
21171	Extra Steps, without ring
	21169 21170



Boulevard Lamp Post.

For boulevard street lighting we manufacture an ornamental lamp post as shown in the accompanying cut.

This post is thoroughly made, electrically and mechanically, and is graceful in design. It is provided with a cast iron pedestal similar to that furnished with the Columbian lamp post. The cast iron top for supporting the lamp extends over the street in order to afford a good distribution of light, but at the same time the lamp is easily reached from the post for trimming. The wooden portion of the post, which supports the steps, is made to extend through the cast iron pedestal to the ground giving a substantial construction. The post is also made with a top that curves out more than the one shown in the cut, making a post desirable for alley lighting. A switch is placed in the pedestal and is accessible by a hinged panel.

Prices on application.

MARINE.



Bryant Waterproof Marine Switch.

This Switch is designed for marine work or for use in damp places. The wires enter through stuffing boxes having soft rubber packing. They are extensively used on transatlantic steamers.

No. 20858.

E. C.	Code Word.	List No.	Marine Switches.
	Loveliness	63758	Water-tight Switch and Receptacle, capacity 5
	Lovelorn	63759	amperes, each. \$6.50 Water-tight Switch Receptacle and Junction Box, each. 10.00
	Lovely	63756	Single Pole Water-tight Switch, capacity 5 am-
No. 63758.	Lover	63763	Double Pole Water-tight Switch, capacity 25 amperes, each
	Lovesome	63764	Double Pole Water-tight Switch, capacity 40
	Lower	63757	14.00 Single Pole, not Water-tight Switch, capacity 25 amperes, each
No. 63764.			
			Deck Tubes.
No. 50974.	Lowered	50974	Protective Deck Wire Stuffing Tube, each 8.00
No. 50970.	Lowering	50970	Main Deck Wire Stuffing Tube, each 6.00
	Lowland	50971	Bulkhead Deck Wire Stuffing Tube, each 1.00
No. 50971.			
	Mildevi	64109	Water-tight Receptacle, with Attaching Plug, capacity 5 amperes, each
m d	Mileage		Attaching Plug for No. 64109, each
	Military Militia		Not Water-tight Receptacle, cach 30 Attaching Plug for No. 64111, each 5.00
The second second	Milk		Search-light Receptacle, with Plug, cach 19.00
No. 64109.			
		Р	ortable Lamp Guards.
No. 9121.	Lotion	9121	Portable Lamp, cach 6.00



No. 4974.

Portable Lamp Guards—(Continued).

Code Word. List No. 4974 Portable Lamp Guard, safety hand key socket, Lottery each,......\$1.25 4975 Portable Lamp Guard, safety hand keyless Lotus



No. 8913.

Miff

8913 Brewer's Portable Lamp Guard, each..... 2.50 Loud

9118 Battle Lantern, without Shield, each......12.00



No. 9118.



No. 9119.

Miffer

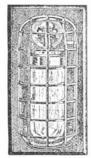
9119 Battle Lantern, with Shield, each......12.00



No. 9123.

Fixtures.

Code Word. List No. List Price. 9123 Half Wire Guard, each.....\$4.50 Might

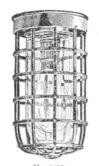


No. 9124.

Mighty 9124 Full Wire Guard, each...... 7.00



Loudly 9122 Steam-tight Globe, each...... 6.50



Fixtures—(Continued).

Code Word. List No. List Price.

Loudness 9125 Steam-tight Globe, with Guard, each...........\$7.00



Lounge 9120 Navy Signal Lantern, each:................. 30.00



Mesh	9140	Ceiling Fixture, each	8.00
Lactean	8821	Shade, each	1.00
Lactic	8822	Rubber Gasket, each	.50

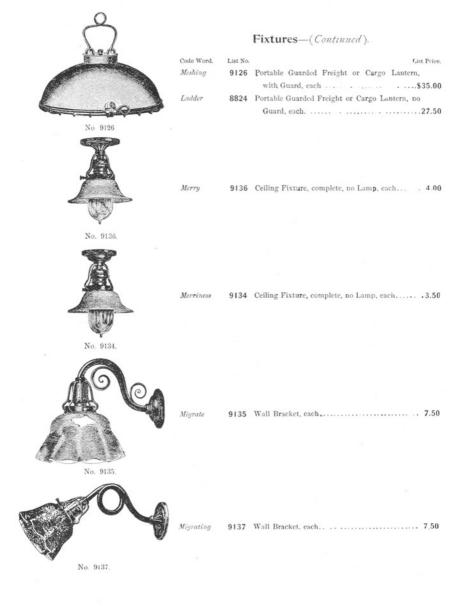


Meshed

Lactine

Lactic

No. 9141.





Fixtures—(Continued).

List Price. Mild 9138 Wall Bracket, each.....\$10.00



Migration 9130 Desk Lamp, each......12.00



9129 2 Light Electrolier, with Oil Lamp, each...... 35.00



No. 9131,

Mermaid 9131 2 Light Electrolier, with Oil Lamp, each..... 30.00



Fixtures—(Continued).

No. 9128.



Merriment

 $9127-6 \; {\rm Light \; Electrolier}, \; {\rm with \; Oil \; Lamp}, \; {\rm each}. \; \ldots . \quad 60.00$

Milder

Mildest

9132 3 Light Electrolier, each 6.0

No. 9132.



No. 9133.

9133 2 Light Electrolier, with Oil Lamp, each...... 26.00

SHADES.

Porcelain Shades.





No. 2704.



No. 2709.



No. 2714.



No. 2719.

Lignite

Absonant

Absorbent

.Absorbing

Absorption

Absorb

2720

2723

2724 10 "



No. 2720.

Code Word.	List No.										1		Price
Dealing	2700	5	inch,	Fan S	haped	, Fla	t.	 			 		
Deanery	2701	6	**	44		66							2.50
Deborah	2702	7	66	44		44							2.75
Delia	2703	8	44	*4		64				 			3.10
Simony	23104	10	66	**		66		 					3.60
Simoon	23105	12	**	"		**		 	 				7.80
	0704	-	in ab	Plain,	Tallet								2.00
Absalom	2704	6	men,	Plath,									2.00
Abscess Abscend	2705	-	**	6.									2.25
Absconded	2706 2707	8		**									2.50
Absolutely	2707	10											2.75
Absolutely Absoluti	2708	12		**									5.50
Absolve	2725	14	**	66									6.25
Absolver	2727	16		44									8.75
Absolcing	2728	18	66	44									15.00
Simions	23106	20		46									17.00
Simper	23107	22		64									26.00
Simperer	23107	24	44	44									32.00
Staperer	23100							 	 	 	 	•	32.00
Denis	2709	5	inch,	Deep,	Fan S	Shap	е.	 		 			2.25
Depress	2710	6	64	66	44			 	 				2.50
Depression	2711	7	66	44	44				 				2.75
Deprice	2712	8	**	**	**				 				3.00
Depricing	2713	10	+4	**	69			 	 	 			6.00
Deadness	2714	5	inch,	Plain,	Deep								2.00
Deaf	2715	6	66	4.0	44								2.25
Deufen	2716	7	**	44	**								2.50
Deufness	2717	8	44	44	44					 			2.75
Deut	2718	10	44	44	4.0		٠.			 			5.00
	From beaded desired,	edg		4 to 1									

2.00

2.25

2.50

2.75

5.00



No. 8772.



Etched Electric Globes-Glass-(Continued).

List Price. Code Word. 8773 Per dozen.....\$3.50 Littleness





Lusterless 8765 51 in. diameter. 4 in. high, 21 in. holder, per doz.. 6.50



8766 5 in. diameter, 4 in. high, 24 in. holder, per doz .. 7.50



No. 8767.

Lusciousness 8767 51 in. diameter, 4 in. high, 21 in. holder, per doz.. 8.00



Etched Electric Globes—Glass—(Continued).

List Price. Code Word. List No.

Lusciously 8768 51 in. diameter, 4 in. high, 21 in. holder, per doz \$8.50

No. 8769.

Luscious 8769 5 in. diameter, 4 in. high, 21 in. holder, per doz.. [5.00]

Coruscate

8826 Per dozen..... 4.00

Lurch

8827 5 in. diameter, 31 in. high, 24 in. holder, per doz 12.50

No. 8828.

Lurching 8828 5 in. diameter, 4 in. high, 21 in. holder, per doz. 15.00

Lurid

8829 51 in. diameter, 41 in. high, 21 in. holder, per doz. 4.75

No. 8876.

Etched Electric Globes—Glass—(Continued).

Code Word. List No. List Price. Lurking 8876 5 $\frac{1}{2}$ in. diameter, 4 in. high, $2\frac{1}{2}$ in. holder, per doz... 2.25

Luring 8877 6 in diameter, 4 in. high, 2½ in. holder, per doz., 5.00



Colored Electric Globes-Glass.

				Inch Diam.	Inch High.	Inch Holder.	Per Doz.
Liveliness	8857	Pink opale	scent,	51	41	21	7.50
Lively	8858	Ruby	**	51	41	2;	7.50
Livery	8859	Light blue	**	51	41	21	3.75
Livid	8860	Flint	**	5	41	21	3.75
Lividness	8861	Amber		51	41	$2\frac{1}{4}$	3.75
Living	8862	Pink opale	scent,	41	5	21	7.50
Lizard	8863	Ruby	67	41	5	21	7.50
Loadstone	8864	Flint		41	5	21	3.50
Loafer	8865	Light blue	**	41	5	21	3.50
Loafing	8866	Amber	**	$4\frac{1}{2}$	5	$2\frac{1}{4}$	3.50
Loam	8867	Flint opale	scent,	5	34	21	4.38
Loathful	8868	Ruby	**	5	34	21	8.75
Loathness	8869	Flint		6	34	2‡	3.75
Loath some	8870	Ruby	**	6	3‡	21	7.50
Locality	8871	Flint		7	3‡	21	4.90
Locally	8872	Ruby	**	7	34	21	9.25
				Inch Diam.	Inch Long	Inch Rolder	



No. 8862.

				Inch Diam.	Long	Inch Holder	
Locate	8873	Ruby op:	descent	, 4	61	31	12.00
Lowly	8874	Flint	**	4	64	3‡	5.63
Lowness	8875	Crystal		4	63	31	5.00





No. 23109.

No. 23110.

New Patterns in Standard Shades.

W. A. Fluted Etched Shade.

Code Word. List No. Simple 23109 Shade 4 x 4 in. for 24 in. holder ... \$5.30

W. A. Electric.

Simpleness 23110 34 in. high, 48 in. wide, for 24 in. holder..... 5.00

No. 23111.

Diamond Etched.

Simpler 23111 4 in. high, 5½ in. wide, for 2¼ in. holder....







No. 23113.

Simpless 23112 4 in. high, 41 in. wide, for 21 in. shade holder....

Simplician23113 44 in. high, 48 in. wide, for 24 in. shade holder.....



Simplify 23114 4g in. high, 5 in. wide, for 24 in. shade holder.....

Rough Etched Maple Leaf.

Simplest 23115 47 in. high, 51 in wide, for 21 in. shade holder..... 7.00

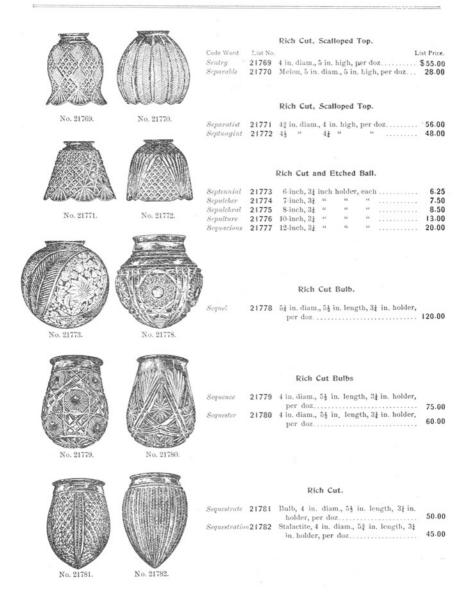
> The black background on shades represents clear glass.

Shades Etched Shades. Code Word. List No. No. 21729. Segneurial 21730 Pearl Etched 4.50 No. 21730. Seignior 21731 Pearl Etched 4.50 No. 21731. No. 21732. Scine 21733 Pearl Etched 4.50 No. 21733. Seize 21734 Pearl Etched 4.50

No. 21734.

Shades Roughed Inside. Code Word. List No. 21735 41 in. diam. 51 in. high, crimped top Seldom \$7.50 21736 41 " 51 " Select 51 " Selectman '21737 34 " No. 21735. No. 21736. No. 21737. Silver Etched. Self 21738 34 in. diam. 51 in. high, scalloped top, .18.00 21739 34 " 54 " Selfish' plain top 15.00 51 " Selframe. 21740 41 scalloped top, 18.00 51 " 21741 41 plain top 15.00 Seleage twist ruby ... 51 " Semaphone 21742 33 " 9.00 Semblance . 21743 33 " 51 " ·twist flint opalescent..... 6.00 No. 21739. No. 21740. No. 21743. 21744 54 in. diam. 4 in. high, etched pan . . . 5.00 Seminary 21745 43 " 41 " silver etched, Semitic 9.00 Semitone 21746 51 in. diam, 4 in. high, etched pan ... 5.00 No. 21744. No. 21745. No. 21746. Crimped. Sempstress 21747 5 in, diam, 43 in, high, etched 7.50 21748 51 " 41 " " 5.00 21749 5 " 41 66 roughed inside 7.00 Senator No. 21748. No. 21749. No. 21747. Senatorial 21750 44 in: diam. 51 in. high, silver etched 21751 47 in. diam. 4 in. high, rich cut 114.00 Senile Senility 21752 11 " 51 " silver etched plain top 16.00 No. 21750. No. 21751. No. 21752. Rich Cut. 21753 41 in. diam. 51 in. high...... 54.00 Senior-Senoirity 21754 4+ " 5+ " 60.00 21755 41 " 5 66 Sensation. 44.00 No. 21754. No. 21755. No. 21753. All Shades on this page for 21 in. holder.

No. 21756.	No. 21757.	Code Word. Sense	List No.	Silver Etched, Scalloped Top. b. List Fer 5 in. diam., 3½ in. high	Price. Doz. 7.00
10. 21100.	NO. 21101.		Silve	er Etched and Cut, Beveled Top.	
	Mate Acti	Sensibility	21757	5‡ in. diam., 4 in. high	20.00
No. 21758.	No. 21759.	Sensible Sensitive	21758 21759		7.00 8.00
1119 8 111		s	ilver E	Etched and Rich Cut, Scalloped Top.	
		Sensorial Sensorium		5½ in. diam. 4 in. high	4.00 4.00
No. 21760.	No. 21761.				
		Sensory Sentence Sententions	21763 21764	" 5¼ " 3½ " 10 Plain Top, 5¼ " 3½ " 13	4.00 4.50 2.50
No. 21762.	No. 21763.		No. 21	764 is the same in finish as No. 21763.	
		Sentient Sentiment		Cut and Etched. Melon Beaded Top, 5 in. diam. 4 in. high, 3: Corrugated, Scalloped Top, 5 in. diam.,	
No. 21765.	No. 91700			3≩ in. high 3:	2.00
	No. 21706.	Sentimtental Sentinet			0 00
		AJURES PROCE	21700	74 72	0.00
No. 21767.	No. 21768.	4			



			S	hades
	20 12 12 12 12 12 12 12 12 12 12 12 12 12			Twist Stalactites.
		Code Word.	List No	Price List,
	Variety in the	Secrety	21819	Flint Opalescent, 7 in. diam., 9 in.
V(((///		Sewer	21820	length, 5 in. holder
	A STATE OF THE PARTY OF THE PAR		Plair	Stalactite, Roughed Inside.
No. 21819.	No. 21821.	Sextile	21821	7 in. diam., 10 in. length, 4 in. holder, 24.00
				Rich Cut Bulb.
		Sexton	21822	Large, 44 in. diam., 6 in. length, 34 in.
		Shabby	21823	holder
	These server	Shiickle	21924	holder
No. 21822.	No. 21824.	.,,,,,,	21024	4 m. man., 55 m. rengen, 54 m. nonder, 52-55
No. 21525	No. 21826.	Shadow Shaft	21825 21826	Rich Cut Stalactite. 4 in. diam., 8 in. length, 3½ in. holder, 60.00 4 " 8 " 3½ " 75.00
No. 21827.	No. 21828.	Shag Shaggg		Rich Cut Stalactite. Silver Etched, 4½ in. diam., 8½ in. length, 3½ in. holder

Shades--

Etched. Code Word. List No. List Price. Per doz. Scraph 21783 Rich cut, 44 in. diam., 61 in. length, 34 in. holder..... \$ 22.00 Seraglio 21784 Stalactite, 41 in. diam., 61 in. length, 31 in. holder 9.00 No. 21783. No. 21784. Etched Stalactite. Seraphic 21785 Rich cut, 5 in. diam., 61 in. length, 31 in. holder..... Seraphim 21786 Melon, 5 in, diam, 64 in, length, 34 in, holder, 10.00 Etched Stalactite. 21787 Melon, 5 in. diam., 61 in, length, 31 in. holder, 12.00 Serapis Serenade 21788 Rich cut, 41 in. diam., 61 in. length, 31 in. No. 21786. holder..... 20.00 No. 21785. Twist Melon Bulb. Serene 21789 Flint Opalescent, 51 in. diam., 64 in. length. 31 in. holder..... 8.00 Serenity 21790 Crystal, 51 in. diam., 61 in. long, 31 in. holder, 7.50 No. 21787. No. 21788. Twist Bulb. Serf 21792 Ruby, 51 in, diam, 61 in, length, 31 in holder, 13.00 21793 Flint Opalescent, 54 in. diam., 64 in. length, Sergeant 34 in. holder..... 21794 Crystal, 51 in. diam., 61 in. length, 31 in. Serial holder.... 5.50 No. 21789. No. 21793 Rich Cut. 21795 Bulb, 5 in. diam., 64 in. length, 34 in. holder, 22.00 Serious Serjeant 21796 Stalactite, 41 in. diam., 61 in. length, 31 in. holder 28.00

No. 21796

No. 21795.

		Code Word. Sermon Serons Serpentine	21798	4 in. diam. 8 in. length, 3¼ in. holder, per doz\$26.00	
No. 21797.	No. 21798.				
	The state of the s			Rich Cut Stalactites.	
WALL DE LAND	TOWNS TO STATE OF THE PARTY OF				
		Serrate	21800	4½ in. diam. 8¾ in. length, 3¼ in. holder,	
				per doz	
		Serum	21801	4½ in. diam. 8¾ in. length, 3½ in. holder, per doz	
Mark to the				per doz 90.00	
MANARA SAL				Silver Etched Ball.	
	TO TOP OF			Silver Etched Ban.	
		Servant	21802	6-inch, per doz 17.00	
N 01000	27	Serve	21803	7-inch, " 24.00	
No. 21800.	No. 21801.	Service	21804	8-inch, " 30.00	
	No. of the last of	Servile Servitor	21805	10-inch, " 40.00	
	The second second	Servitude Servitude	21806	12-inch, " 70.00 14-inch, " 100.00	
A STATE OF THE PARTY OF THE PAR	CARD COLOR DE CARDON DE CA	Session	21808		
W.					
	A Comment of the Comm			Crackle, Rich Cut Ball.	
	LIKERELEN	Sesspool	21809	6-inch, each 5.50	
de	ON DESCRIPTION OF THE PARTY OF	Setaceous	21810	6-inch, each	
	No. 21802.	Sete	21811	8-inch, " 10.00	
	110. 21002.	Settee	21812	10-inch, " 16.00	
-	THE PARTY OF THE P	Setor	21813	12-inch, " 22.00	
				Crackle, No Cutting.	
		Setttler	21814	6-inch, each	
A Control	11/1/39	Several =	21815	7-inch, " 3.00 8-inch, " 3.75	
-		Severally	21817	8-inch, " 3.75 10-inch, " 6.00	
	No. 21809.	Severe	21818	12-inch, " 9.00	



No. 21829.

Silver Etched Bowl.

Code Word. Shah		12½-inch,	each										List Pro	
Shake		14-inch,												
Shule		15-inch,												
Shallop		16-inch,	66)(
Shallow	21833	18-inch,	"			i.							. 40.0)(



No. 21834.

Rich Cut Bowl, "Jewel."

Shum	21834	10-inch, each	18.00
Shamble		12½-inch, "	
Shame	21836	14-inch, "	45.00
Shammy	21837	16-inch, "	75.00

Aluminum Lined Reflectors.



No. 23079.



No. 23081.

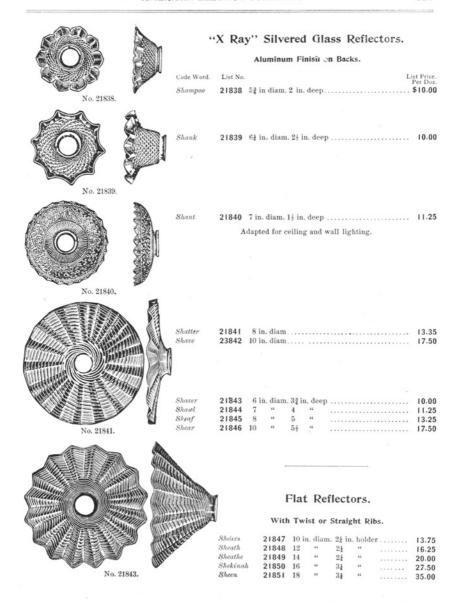
These Reflectors are made of tin, japanned a dark green on the outside, and lined with a sheet of polished aluminum. The tin forms a strong, stiff support for the thin aluminum, the two being wired or seamed together at the top and bottom edges.

The aluminum is very highly polished, and being almost chemically pure, it will not tarnish by exposure to the atmosphere and moisture. It therefore forms an ideally perfect reflecting surface of the highest efficiency and durability.

The Reflectors are fluted by an improved method, the curvature of the flutings in each style being carefully calculated so as to produce a uniform intensity of light over the area to be lighted, without wasting any portion of it by double reflection, or by throwing it where it will be of no use,

These Reflectors are unbreakable, and they are much lighter in weight than glass.

Silen	23079	No. 101	10-inch,	to fi	t 24	holder,	eacl	h	.90
Silcanite	23081	No. 201	10-inch,	44	21	44	**		.80







No. 2355.

Silvered Glass Reflectors.

Flat Spiral Corrugated.

Code Word.	List No.								List Price.
Logical	2355	8	inch	diameter,	21	inch	holder,	per doze	n\$8.00
Logically	2356	10	4.4	4+	21	-61	1.6	**	9.00
Logician	2357	12	**		21	**		**	13.75
Logwood	2358	14	4.1	**	21	+4		**	17.50
Loin	2359	16	41	4.4	21	11		**	20.00
Loiter	2360	18	- (1	**	24	**	•		26.25
Loneliness	2361	20	**	16	21	- 11	+4		37,50
Lonely	2362	22		**	24	- 11	44	**	45.00



No. 2363.

Scalloped Silvered Shade.

Lonesome	2363	7	inch	diameter,	21	inch	holder,	per	doz	en	9.00
Looming	2364	8		**	21	**	**				10.00
Loom	2365	10		**	21	- 11	**		4.6		12.00

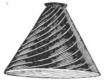


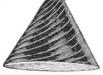


No. 2366.

Radial Fluted.

Loose	2366	7	inch	diameter,	21	inch	holder,	per	dozen	 9.00
Loosely	2367	8	**	**	21	**	**		:"	 10.00
Loosen	2368	10	11	44	21	**	4.6		44	 12.00





Silvered Glass Reflectors—(Continued).

Deep Spiral Corrugated.

Code Word.	List No.								Li	st Price.
Looseness	2369	7	inch	diameter,	21	inch	holder,	per dozer	1	\$8.00
Loosening	2370	10	**	41	21	**	**	**		12.00





No. 3997.

McCreary Standard Reflector Shade.

Lintel	2733	7 inch Shade; size of opening at top, 24 inches requires a 34 inch holder; will take a 16, 20 or 24 candle-power lamp, per dozen
Lioness	2734	8 inch shade; size of opening at top, 24 inches; requires a 34 inch holder; will take a 16, 20 or
Lionize	2735	24 candle-power lamp, per dozen
Liquidate	2736	power lamp, per dozen
	In orde power.	ering, state kind of lamp to be used and candle-
Liquidated	2779	Shade Holder for Standard Shade, Edison Socket, per dozen
Liquidating	2779B	Shade Holder for Standard Shade, Westinghouse Socket, per dozen
Liquor	2780	Mica Dust Protector for 7 and 8 inch Standard Sbades, per dozen
Lisbon	2781	Mica Dust Protector for 9 and 12 inch Standard
Lightening	3997	Shades, per dozen



McCreary Half Reflector Shade.

For 16 Candle-Power Lamps.

Code Word.	List No.																L	ist Price
Lingo	2737	Opal, per	doze	n										 				.\$6.00
Lingual	2738	Silvered												 		 		8.00
Linguist	2739	Colored	**											 		 		7.00
Liniment	2740	Aluminum	**											 		 		. 8.00
			Incl	lud	in	g	M	e	ta	17	Го	ps	3.					
		-							_									
		For 22 C																

For 32 Candle-Power Lamps.

Linking	2741	Opal, per	doze	n.	 		 	٠.			 				7.00
Linnet	2742	Silvered													10.00
Linseed	2778	Colored			 					 		,,		 	8.00

Including Metal Tops.



No. 2777.

"Cartwright" Paper Waterproof Lamp Shade.

For Any Socket.

These are made with the white and green surface, and can be washed in either cold or lukewarm water without destroying the texture of the fibre, the fibre being thorougly impregnated with a waterproof material. Any dust or fly specks that can be removed from any surface can be removed from this Lamp Shade without injury to the surface or fibre of same.

2777 "Cartwright" Paper Shades; per dozen...... 4.80



Lingering

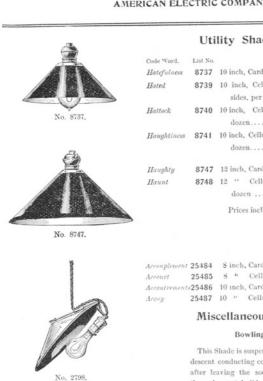
No. 8731.

No. 8732.

Utility Shades.

Made of Celluloid or Cardboard.

Hostiness	8731	10 inch, Cardboard, per dozen	2.00
Hasty	8732	8 inch, Cardboard, per dozen	1.80
Hatchway	8734	8 inch, Celluloid, single sheet, polished two sides, per dozen	4.80
Hateful	8735	8 inch, Celluloid, opaque, white lined, per dozen	
Hatefully	8736	8 inch, Celluloid, transparent, white lined, per dozen	7.80



Utility Shades-(Continued).

Code Word.	List No.	List Price.
Hatefulness	8737	10 inch, Cardboard, per dozen\$2.00
Hated	8739	10 inch, Celluloid, single sheet, polished two sides, per dozen
Hattock	8740	10 inch, Celluloid, opaque, wkite lined, per dozen
Haughtiness	8741	10 inch, Celluloid, transparent, white lined, per dozen 8.50
Haughty	8747	12 inch, Cardboard, per dozen
Haunt	8748	12 " Celluloid, opaque, white lined, per dozen
		Prices include Shade Holder.

FULL CONE.

Accomplem	ent 25484	8 i	nch, Cardboard	2.00
Account	25485	8	" Celluloid, white lined, green	7.50
Accoutrem	ents25486	10 t	nch, Cardboard	2.50
Accery	25487	10	" Celluloid, green, white lined	10.00

Miscellaneous Metal Shades.

Bowling Alley Shade.

This Shade is suspended from a fixed point by the incandescent conducting cord, as shown in the cut. The cord, after leaving the socket, passes around the edge and through a metal slide which travels from center of Shade to the upper edge on the wire strip. By moving this slide either to the right or left the position of the Shade is regulated.



Billiard Shades.

Likeliness	2792	Extra Deep	, each.		*************	.70
Likeness	2797	4.6	with	Combination	Holder (see No.	
		2743), ea	ch			.80



No 2792.

Metal Half Shades.

Likening	2793	Japanned	Green	Outside,	White	Enamel	Inside,	
		cach .						



Miscellaneous Metal Shades—(Continued).

Metal Half Shades-With Wire Guard.

Code Word.	List No.	List Price.
Likewise,	2794	Japanned Green Outside, each\$0.50



Liking Lilac Metal Half Shade-With Combination Holder.

See cut of Shade No. 2743, which shows manner in which it is used.

Only one set-screw used. Saves time in adjusting socket.

Metal Shades and Reflectors.

"Marten" Combination Shade and Holder.

(Patented.)





No. 2743.

Abyss	2743	6	inch,	Flat,	Green and	White	Enamel,	per doz.	2.35
Accede	2744	7	**	**	**		4.6	**	2.35
Acceded	2745	8	44	**	**	14	**		2.35
Criminal	2746	10	**		**	4.1	**	+ 4	2.85
Criminate	2747	12	11	**	**		**	**	3.60
Criminating	2748	14	4+		**	++		**	4.35
Cuthbert	2749	16	11	**	**	.0	**	**	5.60
Cynthia	2750	18	**	**	**	(4	**	14	6.60
Acceding	2751	8	in., II	alf De	eep, Green a	nd Whi	te Ename	l, perdoz	2.35
Accelerate	2752	10	41	* 6	- 0	- 11			2.85
Accession	2753	12	11			**	**	**	3.60
Cricketer	2754	14	**	**		- 0	**	**	4.35
Crier	2755	16	0		4.4	**	**	**	5.60
Crime	2756	18	**	4.9	**	4.4	**	**	6.60
Accidental	2757	8	in., F	ull Co	ne, Green a	nd Whi	te Ename	l, perdoz.	2.85
Acclaim	2758	10	**	**	**	**		**	3.60
Acclamation	2759	12		**	**	16	**		4.60

Only one set-screw used instead of (4) four, as in ordinary Holders heretofore sold,

Metal Shades and Reflectors—(Continued).



		Flat Tin Shades.
Code Word.	List No.	List Price.
Abstain	2760	6 inch, Japanned Green Outside, Enameled White Iuside, per dozen
Absterge	2761	
Abstract	2762	8 inch, Japanned Green Outside, Enameled White Inside, per dozen
Absurd	2763	10 inch, Japanned Green Outside, Enameled White Inside, per dozen
Absurdity	2764	12 inch, Japanned Green Outside, Enameled White Inside, per dozen
Harmlessly	2765	14 inch, Japanned Green Outside, Enameled
Harmlessness	2766	White Inside, per dozen
ga.		White Inside, per dozen 5.00
Harmonic	2767	18 inch, Japanned Green Outside, Enameled White Inside, per dozen 6.00
	Table	for 91 luck and 91 inch Holders and Edison

Fitted for 2½ incb and 3½ inch Holders, and Edison Holder. Other sizes to order.

Any of the above Shades fitted with \$ x \frac{1}{2}\$ inch pipe connections for bracket work at 10 cents each, net, extra,

Half Deep Tin Shades.

SIMILAR TO No. 2760, BUT A LITTLE DEEPER.



Absurdly	2768 8 inch, Japanned Green Outside, Enameled White Inside, per dozen
Abundance	2769 10 inch, Japanned Green Outside, Enameled
Abusing	White Inside, per dozen
Abusive	White Inside, per dozen
Castellated	White Inside, per dozen
Castle	White Inside, per dozen
	Fitted for 2½ iach and 3½ inch Holders, and Edison Holder. Other sizes to order. We can also furnish any of the above Japanned White Enamel both sides.

No. 2774,

Cone Tin Shades.

Abut	2774	8 inch, Japanned Green Outside, Enameled White	
		Inside, per dozen	2.25
Abutment	2775	10 inch, Japanned Green Outside, Enameled	
		White Inside, per dozen	3.00
Abutting	2776	12 inch, Japanned Green Outside, Enameled	
		White Inside, per dozen	4.00
	Fitted	for 21 inch and 31 inch Holders. Other sizes to	

Fitted for 21 inch and 31 inch Holders. Other sizes to order.



Silver-Plated Mirror Reflectors.

Deep Cone.

To concentrate a powerful light on a small space.

Lined with silver-plated mirror-plate glass. Increases the light from twelve to fifteen times. Most valuable in show windows and over machines, work benches, type cases, etc., etc.

List No.											P	ric E	e List
21862	No. 121	7-inch,	to fit	21	holder					 		\$	1.00
21863	No. 122	10-inch,	66	66	66					 			1.05
21864	No. 123	12-inch,	16	66	14								1.25



5

Flat Cone.

For use where it is desired to spread the light. Its silver-plated mirror-plate lining makes it most effective and pleasing, and always as good as new.

21865	No. 131	10-inch,	to fit	21	holder			 		 	-90
21866	No. 132	12-inch,	44	66	66						1.00
21867	No. 133	14 inch,	44	"	66					 	1.25
21868	No. 134	16-inch,	60	44	44					 	1.65
21869	No 135	18-inch	64	66	44						2.10



Convex.

Reflecting slightly below the horizontal in all directions.

Used in stores, etc., for general illumination.



Shilling	2
Shilby	2
Shilly	2
Shimmer	2
Shin	2

21870	No. 141	10-inch,	to fit	21	holder							.90
21871	No. 142	12-inch,	66	66	66				 		,	1.00
21872	No. 143	14-inch,	44	66	66				 			1.25
21873	No. 144	16 inch,	44	66	44				 			1.65
21874	No. 145	18-inch,	44	66	66				 			2.10

For Incandescent Clusters.

Style No. 158.



Shingle	21875			Reflector				
Shinney	21876			Reflector				3.00
								4.50
Shinto	21877			Reflector				7.00
Shire	21878	No. 154	35-in.	Reflector	only	, fits	iron	10.00
								10.00
Shirk	21879	No. 155	20-in.	complete,	3 lig	hts, v	vired	6.00
Shirred	21880	No. 156	24-in.	44	4	66	66	7.75
Shirting	21881	No. 157	30-in.	66	6	66	61	10.75
Shive	21882	No. 158	35-in.	a	8	.4	66	14.00

Frink's Patent Reflectors,

For Electric Lights in Churches, Halls, Banks, Stores, Store Win-dows, Schools, Hospitals, Office Buildings, Factories, Etc.

Frink's Deep Reflecting Shade.

Enameled dark green outside, lined with Silvered Corrugated, mirror or opal glass. To throw the light downward. Adapted for stores, store windows, desks and places where a number of lamps are scattered over the ceiling or in clusters; the shade reflects the light down where needed, and greatly increases the light at a minimum of expense.



Frink's Flat Reflecting Shade.

Accumbent	25504	2399	10.,Mirror 24	inch	 1.00
Accumulation	25505	2398	10 Corrugated 2}	64	 1.10
Accumulative	25506	2459	122j	66	 1.30
Accumulatively	25507	2460	12Corrugated24	66	 1.60
Accimulator	25508	2463	142‡	.811	 1.60
Accurately	25509	2464	1424	64	 1.80
Accursed	25510	2465	143‡	**	 1.60
Accusable	25511	2466	143±	61	 1.80
Accusat	25512	2467	162‡	16	 2.25
Accusative	25513	2468	16Corrugated24	14	 2.60
Accusatively	25514	2469	1631	**	 2.25
Accusatorial	25515	2470	16Corrugated34	64	 2.60
Accusatory	25516	2473	183‡	61	 2.75
Accuse	25517	2474	18 Corrugated 3‡	61	 3.15
Acentric	25518	2497	20½ Mirror 3½	64	 3.50
Acephal	25519	2498	201 Corrugated 31	6.6	 4.00

Lined with opal glass, when ordered, at same price as

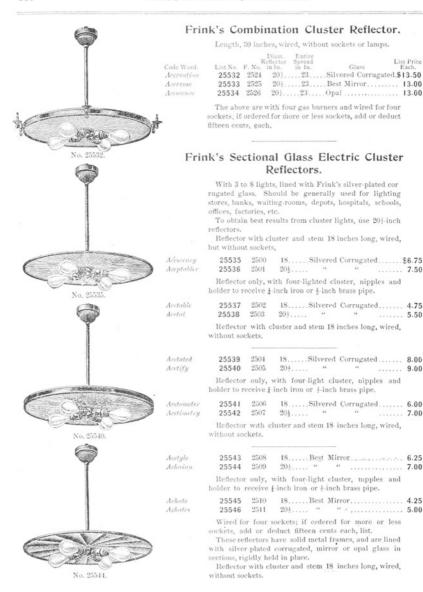
Ten inch flat and deep shades furnished for Edison sockets without holders when so ordered.

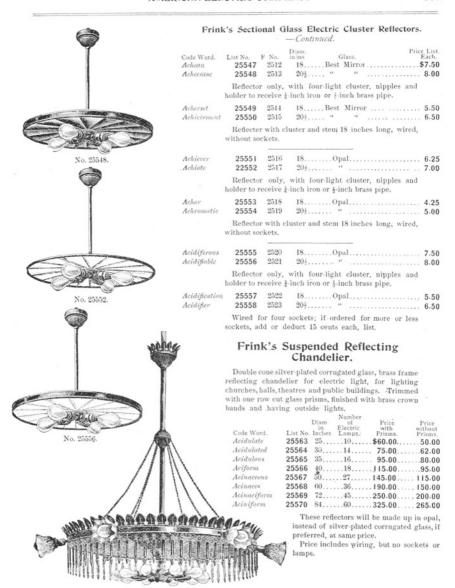


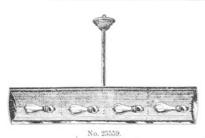
No 25498

Frink's Convex Reflecting Shade.

Acephulan	25520	2475	10 Mirror 24	inch	1.25
Acephuli	25521	2476	1024	**	1.40
Acephulist	25522	2479	1224	16	1.50
Acephalons	25523	2480	1224	"	1.70
Ace-point	25524	2483	142½	"	1.80
Acer	25525	2484	14, Corrugated, 24	"	2.00
Acerb	25526	2485	14 Mirror 34		1.80
Acerbata	25527	2486	14Corrugated3‡	"	2.00
Aceric	25528	2489	163‡		2.25
Acerose	25529	2490	16 Corrugated 34		2.60
Accrous	25530	2493	18 Mirror 34		2.75
Acerente	25531	2494	18Corrugated34		











No. 25560. With loops to attach to ceiling with chain.



No. 25561. With brackets to attach to the transom bar.

Store Window Lighting.

Ninety-nine per cent, of store windows are imperfectly lighted, and especially so where electric lamps are used. Most of the lamps are scattered on the bottom and at the sides of the windows where they can be seen and where they attract more attention to themselves than to the goods they are imperfectly lighting. The ideal window light should light the goods and not be seen while doing so.

Frink's Special Patent Window Reflector,

for Electric Light, lined with silver-plated Corrugated Glass, is placed in top of window near the front glass, reflecting the light inward and downward. This makes a very desirable window reflector, as the reflectors are out of the way and concealed from view, at the same time concealing the direct light from the eyes of the observer, and giving a strong, even light where wanted, thus doing away with the annoyance of a dazzling light in the eyes. It is used also largely for lighting art galleries, pictures, stock exchange boards, border lights, telephone switch boards, etc.

To get best results, reflectors should be used entire width of window with lamps 9 or 12 inches apart, as desired.

These fixtures are wired but do not include sockets and lamps—these are extra.

Suspended from ceiling with one or more stems as required.

List No	List Price per Running Foot.
25559	2415 Lined with silver-plated Corrugated .
	Glass \$4.00
25560	2415A Lined with silver-plated Corrugated
	Glass
25561	2415B Lined with silver-plated Corrugated
	Glass 4.00

To get the best results, reflectors should be used the entire width of windows, with lamps 9 or 12 inches apart as desired. When ordering please state if style No. 25559, No. 25560 or No. 25561 is desired.

Frink's Special Patent Single Lamp Window Reflector.



Acidness 25562

2499 Lined with silver-plated corrugated glass, ready for sockets and lamps ... \$3.00

Shoot

Shout



Silver-Plated Mirror Reflectors.

For Incandescent Cluster.

Style No. 168.



	器	Ŋ.	A
-		4	

No. 21891.

Code Word.	List No.								L	ist Price Each.
Shiver	21883	No. 161	20-in, r	eflector	only	(fits	g iron	pi	pe).	\$5.75
Shoal	21884	No. 162	24-in.	66	66	44	1	"		7.50
Shoar	21885	No. 163	30-in.		**	44	1/2	66		10.50
Shoat	21886	No. 164	35-in.	44	6.	66	1/2	66		14.00
Shock	21887	No. 165	20-in. c	complete	, 31	ight	wired			8.75
Shoddy	21888	No. 166	24-in.	44	4	66	46			10.75
Shone	21889	No. 167	30-in.	"	6	66	66			14.25
Shook	21890	No. 168	35-in.	44	8	66	66			18.00

Green Outside. Glossy Enamel White Inside.

21891 No. 319 7-in. diam., height 61 ins., per doz ..., 4.00



No. 21892.

Foot Light Reflector.

Green Outside. Bright Tin Inside.

21892 For 21 inch holder, per doz 6.00



No. 21893.

-	2700	CONTR.	100	(360)		
7	1				4	
)))		1				
<u>u</u>		1	_	-	-	

No			

Pulpit Hood.

Bronze outside. White Enamel Inside.

Billiard Reflector.

Green outside. , White Enamel inside.

21894 For 24 inch holder, per doz 6.00

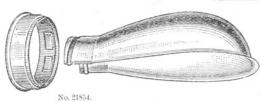


The Crescent Shade.

This Shade has been designed to meet all the requirements of the users of Tin Shades. It is made of heavy tin, and the corrugation and shape are so arranged as to give the greatest reflecting power.

Code Word.	List No.	Li	st Price.
Sheep	21852	Enameled White inside, Green outside	
Sheepish	21853	Bright Tin inside, Imitation Brass "	1.50

Aluminum Half-Shape Shade.



The shape of this half shade is such as to reflect the greatest possible light. The new patented holder also shown on the above cut, in which only one set screw is used, can be furnished when desired.

We have a new process of treating aluminum which gives it a silver finish, making it very much more beautiful in effect and softening the reflector. This new treatment of aluminum in electric shade, to the best of our knowledge and belief, has been discovered by us, and from all that we can learn, has never been used hereto-

fore on any electrical shades. The shades can be furnished green outside, polished inside or polished both sides, or with the new process of treating aluminum, called silvereen finish.





No. 21858.

Aluminum.

Green outside, polished inside. Fits lamp without shade holder.

Parabolic Reflector.

Shelter	21858	For 16 c. p. lamp	7.50
Shelve	21859	For 32 c. p. lamp	11.50



Deep Cone Form. No. 21860.

Sheol

Cutter Combination Shades.

Deep Cone Form.

Save the cost of a shadeholder. Grip the socket squarely and firmly. Throw the light where it is wanted. 25,000 now in use.

Green on top, white or bright inside.

Fit the standard socket shells.

For use in offices, factories and shops.

21860 Per doz..... \$3.00



No. 21861.

Shepherd

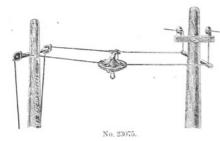
Flat Form.

Has an improved clamp which grips any beaded socket, so that no shadeholder is required. Is quickly put on or taken off, and has no fingers to bend out of shape or break off.

Always hangs level and firm, and is the most durable reflector made for halls, shops or stores.

Green on top, bright tin or white enameled inside.

21861 Per doz:..... 1.80





Streethood Nozzle.



Cutter "Always Level" Suspension Streethood.

It is the only suspension streethood that will stay level in windy weather. The two wires leading to the hood make up one side of the suspension, while cords passing over covered pulleys form the other side so that the hood is supported from four

Both the wires and the cords are insulated from the cross arm by means of the special spreader tips. The pulleys are mounted on a wrought iron bracket, while a wrought iron brace arm is used at the other pole. These parts are assembled before shipment so that they can be quickly screwed in place. Then an adjusting clamp is placed near the end of each cord so that these cords can be independently drawn up taut and then locked together.

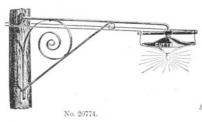
Silt 23075 Complete with multiple socket. . 3.00



Cutter Petite Pulley and Hood.

'Is a smaller form of the lamp supporting pulley, adapted for use with streethoods. This style of suspension is still a favorite with many stations, and the cross arm for this purpose has a special knob bolted securely to it.

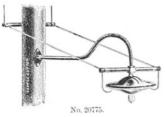
Code Word.	List No	List Price.
Sadiron	20772	Hood with cross arm, socket and pulley \$1.75
Sadly	20773	Petite Pulley



Cutter Boulevard Streethood.

Is an ornamental form designed for use on fine residence streets. The cut shows this as made with a five-foot bracket arm; other lengths and special designs will be furnished on short notice.

Sadness 20774 Complete with socket 3.00





Cutter Standard Streethood.

Is the outcome of an eight years' experience in designing and building incandescent street fixtures. The hood proper is seamless and bell-shaped for neatness and strength. The reflector has a white enamel paint baked on it so as to resist the weather, and is so curved as to scatter the light evenly over a wide area. The receptacle socket furnished with the hood for use on multiple circuits can be more quickly wired than any other socket.

The iron supporting bracket or "gooseneck" is extra heavy, and fits a special pole-plate which is bolted to the pole

20775 Complete with brace arm and socket 2.25



Metal Hoods.

The New Suburban Hood.

This fixture excels in simplicity of construction. The iron canopy is made with slots to take wires, and linemen can easily and quickly adjust the hoods by this method, thus saving vexatious delays. Any size Hoods made to order at small advance.

Code Word.	List No.	List Price
Lisp	2799	Each

Price includes Bracket.

The Tidnam Hood.



JAPANNED GREEN ON TOP, WHITE ENAMEL REFLECTOR.

Lisped	2782	16	Inch	, éac	ch.												1.60
Lisping	2783	18	**			 , .										 	2.25
Lispingly	2784	20	11			 	 			0							2.50

Adapted for Weather-proof Globe. In ordering, state size of socket-1 inch or \$ inch.

The Marten Hood.



ALL PARTS INTERCHANGEABLE.

socket protected by the Reflector, the Lamp only being exposed.

The Chapin Hood.



Listened

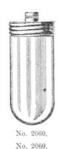
Socket protected by the Reflector, the Lamp only being exposed.



The Columbian Hood

2787 18 Inch, each 1.50

Socket protected by the Reflector, the Lamp only being exposed,



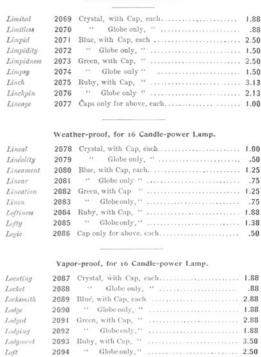
Weather-proof Globes.

Weather-proof, for 16 Candle-power Lamp.

Code Word.	List No.	· List I	rice.
Lillian	2060	Crystal, with Cap, cach	.00
Lily	2061	" Globe only, "	.50
Limber	2062	Blue, with Cap, "	.25
Limberness	2063	" Globe only, "	.75
Limekiln	2064	Green, with Cap, "	.25
Limestone	2065	" Globe only, "	.75
Limit	2066	Ruby, with Cap, "	.88
Limitable	2067	" Globe only "	.38
Limitation	2068	Cap only for above "	.50

Weather-proof, for 32 Candle-power Lamp.

SAME PATTERN AS No. 2060.

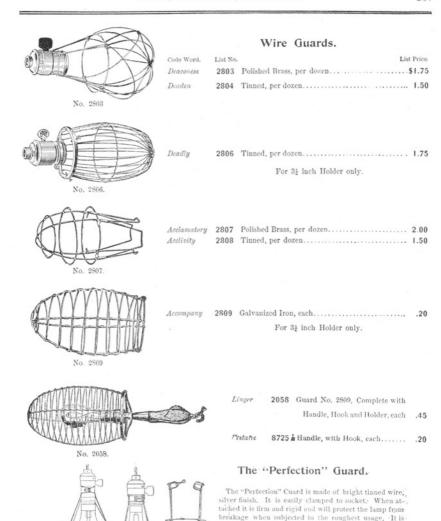




No. 2078.



Loftily



made in two styles, one plain and one which opens, as shown in illustration, for removing the lamp without re-

25490 Perfection Plain Lamp Guard per doz. 1.25

Duplex "

1.50

moving the guard.

Acinous

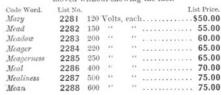
Duplex.

Station, Testing and Measuring Instruments

Voltmeter.

A voltmeter specially designed for use on dynamo switchboards. It has no springs nor permanent magnets, is practically dead beat and reliable within one per cent.

The instrument is protected by a substantial bronze case fastened to its base by sealed screws so that it cannot be removed without showing the fact.



Ammeter.

Our improved Magnetic Vane Ammeter has no springs or permanent magnets, is a purely gravity instrument, nearly dead beat, and yet sensitive to small changes of current. Made in sizes varying in range up to a maximum of 600 amperes.

A heavy bronze case with sealed fastenings is used, so that the instrument cannot be tampered with without showing it.

This instrument is adapted to be placed directly in a circuit, no shunts or other devices being used in connection with it.

Meander	2289	5	Amperes	, eac	h	16.50
Meaning	2290	10	**	6.6		18.00
Meaningly	2291	20	+ 6	44		18.00
Meanly	2292	30	**	4.4		18.00
Meanness	2293	50	4.4	11		20.00
Measles	2294	90	**	11		20.00
Lampoon	3373	120	6.6	**		20.00
Lampooned	3374	150	4.6	44		21.00
Lance	3375	200	**	+6		21.00
Lanced.	3376	300	++	6.6		21.00
Lancet	3377	400	66	4.6		22.00
Land	3378	500	6.6	1.1		24.00
Landau	3379	600	6.6	+ 6		30.00
Landed	3380	750	6.6	44		30.00
Landholder	3381	1000	6.6	4.6		40.00
Landlady	3382	1500	**	**		45.00
Landlock	3383	2000	4.6	66		55.00



No. 2281.



No. 3375.

Weston Standard Portable Direct Reading Voltmeters.

The following is a list of the Standard Voltmeters kept in stock. Calibrating coils and contact keys are attached to instruments only when so stated. The scales for these instruments are of uniform length, and are divided into 120 or 150 parts, the value of each division being the Pro, portional part of the maximum scale value.

Instruments provided with contact key can be kept permanently in circuit by depressing the key and giving it a quarter turn. All instruments are provided with rubbercovered binding posts.

	covered binding posts.
Code Word,	List No. List Price.
Betrayal	2609 No. 1. Scale 0 to 150 volts by single volt divisions, readable to tenths, each\$55.00
Betrayed	2610 No. 2. Scale 0 to 150 volts by single volt divisions, readable to tenths; contact key and calibrating coil. each
Betraying	2611 No. 3. Scale 0 to 150 volts and 0 to 5 volts; scale of double values with a ratio of 30. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values $\frac{1}{36}$ of a volt, readable to $\frac{1}{360}$; contact key, each
Betsy	1179 No. 3½. Scale 0 to 150 volts and 0 to 3 volts; scale of double values with a ratio of 50. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values ½0 of a volt, readable to xbu; con- tact key, each
Betroth	2612 No. 4. Scale 0 to 150 volts and 0 to 15 volts; scale of double values with ratio of 10. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values is $\frac{1}{10}$ of a volt, readable to $\frac{1}{100}$; contact key, each
Betrothal	2613 No. 5. Scale 0 to 300 volts by 2 volt divisions, readable to ½ volt; circuit key and calibrating coil, each
Betrothing	1178 No. 6. , Scale 0 to 450 volts by 3 volt divisions, readable to ½ volt; contact key and calibrating coil, cach
Admirally	3045 No. 7. Scale 0 to 600 volts by 5 volt divisions, readable to \(\frac{1}{2}\) volt, each65.00
Admiration	3046 No. 8. Scale 0 to 600 volts by 5 volt divisions, readable to ½ volt; contact key and calibrating

coil, each70.00



Weston Standard Portable Direct Reading

Voltmeters —(Continued)).
--------------------------------	----

Code Word.	List No.	List Price.
Bespeaking	1180	No. 9. Scale 0 to 600 volts and 0 to 150 volts;
		scale of double values with ratio of 4, reading
		by 4 volt divisions, readable to ½ volt on
		upper scale values, and by single volt divisions
		readable to 10 on lower scale values; contact
Bespoke	1193	key, each\$80.00
Despone	1193	No. 91. Scale 0 to 750 volts and 0 to 150 volts; scale of double values with ratio of 5, reading
		by 5 volt divisions, readable to ½ volt on upper
		scale values, and by single volt divisions read-
		able to 10 volt on lower scale values; contact
		key, each80.00
Bestain	1194	No. 10. Scale 0 to 600 volts and 0 to 300 volts;
		scale of double values with ratio of 2. reading
		by 4 volt divisions, readable to ½ volt on upper
		scale values, and by 2 volt divisions, readable
		to † volt on lower scale values; contact key,
Bestir	1195	each
Desur	1193	readable to $\frac{1}{2}$ volt, each70.00
Bestow	1196	No. 12. Scale 0 to 1,500 volts by 10 volt
20000		divisions, readable to single volts, each80.00
	Voltm	eters of other ranges, with one or more scale
	4 Olem	
	values.	
	values, v	will be made on special order.
		will be made on special order.
	Н	will be made on special order.
	H In whic	will be made on special order. igh Range Voltmeters
	In which	will be made on special order. igh Range Voltmeters h part of the resistance is contained in a separate
Bestowing	In which box specificating of	igh Range Voltmeters h part of the resistance is contained in a separate cally designed to obtain high insulation. No callection or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts.
Bestowing	In which box specificating of	igh Range Voltmeters h part of the resistance is contained in a separate dially designed to obtain high insulation. No call- coil or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts
Bestowing	In which box specificating of	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No callicioli or contact key. No. 18. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the
	In whice box spec brating o	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No callicoll or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each 100.00
Bestowing Bestride	In whice box spec brating o	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No callicially designed to 2,250 volts and 0 to 150 volts. No. 13. Range 0 to 2,250 volts and 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each 100.00 No. 14. Range 0 to 3,000 volts and 0 to 150 volts.
	In whice box spec brating o	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No calically designed to 2,250 volts and 0 to 150 volts. No. 13. Range 0 to 2,250 volts and 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each
	In whice box spec brating o	will be made on special order. igh Range Voltmeters h part of the resistance is contained in a separate failly designed to obtain high insulation. No callicoil or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each
	In whice box spec brating o	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No calically designed to 2,250 volts and 0 to 150 volts. No. 13. Range 0 to 2,250 volts and 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each
Bestride	H In whice box spec brating of 1197	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No callicial or contact key. No. 18. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each
Bestride	H In whice box spec brating of 1197	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No callicoll or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each 100.00 No. 14. Range 0 to 3,000 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 20, each
Bestride	H In whice box spec brating of 1197	igh Range Voltmeters h part of the resistance is contained in a separate failly designed to obtain high insulation. No callicoil or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each
Bestride	H In whice box spec brating of 1197	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No callicioil or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each 100.00 No. 14. Range 0 to 3,000 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 20, each
Bestride Bestriding	In which box spectorating of 1197	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No calliciol or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each 100.00 No. 14. Range 0 to 3,000 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 20, each
Bestride Bestriding	In which box spectorating of 1197	igh Range Voltmeters h part of the resistance is contained in a separate fally designed to obtain high insulation. No callicioil or contact key. No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each 100.00 No. 14. Range 0 to 3,000 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 20, each

High Range Voltmeters-(Continued).

Code Word. Betaken List No.

No. List Price.

aken 1184 No. 17. Range 0 to 5,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 35, each. \$135.00

Betray

The above listed High Range Voltmeters graduated to read in lamps, in addition to the graduation in volts, showing by simple inspection the number of arc lamps burning on the circuit, additional, each, \$5.00.

Reversing Keys.

For the convenience of those who have occasion to make many and rapid tests of the distribution of potential on electric circuits of unknown polarity, a Reversing Key may be applied, when specially ordered, to any of our voltmeters. This Key enables the user to open the circuit by turning the milled head through an angle of 45 degrees, or to reverse the direction of the current in the instrument by an additional movement of 45 degrees. An arrow cut on the head of the Key points towards the side of the instrument at which the current enters, when the needle is deflected over the scale. Price, extra, \$2.50.

Milli Voltmeters. A. Low Resistance Instruments, Wound with Copper Wire.

Clarion	2594	No. 1. Scale 0 to 30 volt by 100 divisions, each
		readable to tenths, each50.00
Clarinet	2595	No. 2. Scale 0 to 100 volt, right and left, by 100
		divisions, each division representing 110000 of a
		volt, each50.00
Clarissa	2596	No. 3. Scale 0 to 100 volt, right and left, by 100
		divisions; supplied with contact key, reducing
		sensibility 10 times, each55.00

B. High Resistance Instruments, Wound with Special Alloy, Compensated for Temperature.

Commute	3677	No. 4. Scale 0 to .2 volts in 100 divisions, read-
		uble to .0002 of a volt, each50.00
Commuted	3678	No. 5. Seale 0 to .3 volts in 150 divisions, read-
		able to .0002 of a volt, each

Volt Ammeters.

It is frequently of great advantage to be able to determine the amount of current used as well as the voltage employed, as is the case when testing incandescent lamps or in determining the internal resistance of telegraph batteries. Where the current is small it is quite possible to combine the two instruments in one with excellent results, provided the proper care is taken to avoid making a wrong connection when using the instrument.

Code Word. Clash

List No.

2597 No. 1. Scales 0 to 150 volts and 0 to 1.5 amperes,

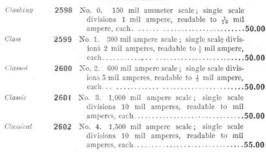
reading to 150 volts by single volt divisions, or to 11 amperes by 110 ampere divisions, each .. \$75.00

List Price.

Other combinations will be made on special order, but they are not recommended in connection with high voltage or heavy currents.

Weston Standard Direct Reading Mil Ammeters and Ammeters.

Mil Ammeters.





No. 2598. One-quarter Size.

Clutter



No. 2607. One-quarter Size.

Ammeters.

2603 No. 1. 5 ampere scale; single scale divisions via of an ampere, readable to 100 of an ampere, each...... 65.00 2604 No. 2. 15 ampere scale; single scale divisions 15 of an ampere, readable to the of an ampere, 2605 No. 3. 25 ampere scale; single scale divisions ‡ of an ampere, readable to 10 of an ampere, each 65.00 2606 No. 4. 50 ampere scale; single scale divisions 1 of an ampere, readable to 10 of an ampere, each. . 65.00 2607 No. 5. 100 ampere scale; single scale divisions 1 ampere, readable to 10 of an ampere, each ... 70.00 2608 No. 6. 150 ampere scale; single scale divisions 1 ampere, readable to 10 of an ampere, each ... 75.00 No. 8, 250 "80.00 No. 9. 300 · 80.00 ** No. 10, 400 " '90.00 No. 11. 500 "90.00



Leather Cases for Weston Portable Volt and Ammeters.

For those electricians who have occasion to travel and carry an instrument with them, a very neat and convenient Sole Leather Case, stiffened, lined with velvet, and supplied with shoulder strap, lock and key, has been devised, and is recommended as giving increased protection against accidental injury to the instrument. Price, when ordered instead of the usual wooden case, extra, \$3.50.

 Code Word.
 List No.
 List Price.

 Admittance
 3047 ± Each
 \$4.00



Weston Illuminated Dial Station Ammeters.

We furnish the cases in two different styles, as follows: No. 2 Finish.—Border of case and face of letters nickel plated and polished; background of letters, and back case dead black japan. This is a neat and durable finish, and

one we highly recommend for general use.

No. 3 Finish.—Border of front and face of letters nickel

plated and polished; background of letters dead nickel matt; all parts of back case in sight nickel plated and

Each instrument has attached to it a lamp socket and binding posts for connecting the scale lamp to the circuit. It is also provided with a pair of thin wire leads, with suitable terminals for connecting the instrument to the main or shunt. With each instrument there is sent a pair of detachable mirror supports and detachable mirrors.



Combined Instruments and Shunts.

Adducible	3067	Finish	No	. 2, 0 to	200 ar	mp. in	2 ar	np. div	isions 79.50
Adept	3068	+4	64	3, 0 "	200	11	2	6	84.00
Commenteri	2120	66		2,0 "	250	44	2	66	79.50
Comminted	2121	44	66	3, 0 "	250	44	2	44	84.00
Comb	2104	4.4		2, 0 "	300	4.4	2	**	79.75
Combat	2105	44	44	3, 0 "	300	**	2	4.1	84.25
Adhesive	3070	4.4	11	2, 0 "	400	4.0	4	**	80.00
Adipose	3071	4.4	11	3, 0 "	400	4.6	4	11	84.50
Combustible	2110	4.4	11	2, 0 "	500	4.4	5	**	81.00
Comedian	2111	4.6	+6	3, 0 "	500	11.1	5	**	85.50
Adjective	3073	7.1	**	2, 0 "	600	**	5	11	82.00
Adjoin	3074	4.6	16	3, 0 "	600	10	5	11	86.50
Comfort	2116		+4	2, 0 "	750	**	5	4.4	83.00
Comfortable	2117	11		3, 0 "	750	**	5		87.50
Adjudgment	3076	**	++	2, 0 " 1	,000	*	10	4.1	84.00
Adjudicate	3077	4.6	11	3, 0 " 1	,000		10 .	11	88.50
Command	2122	**	**	2, 0 " 1	,200		10	*1	85.00
Commander	2123			3, 0 " 1	,200	4.5	10		89.50
Commence	2125	4.6	**	2, 0 " 1	,500	**	10	4.0	90.75
Commencing	2126	44	4.6	3, 0 " 1	,500		10	64	95.25

Weston Illuminated Dial Station Ammeters-

(Continued)

Code Word.	List No.								List Price.
Adjunction	3079	Finish	No.	2, 0 t	o 2,000	amp. i	n 20 amp	divisio.	ns \$95.25
Adjunctive	3080	**	11	3, 0 '	2,000	**	20	**	99.75
Commission	2134	64	**	2, 0 .	2,500	6.6	20	44	96.75
Commit	2135	4.1	4.4	3, 0 '	2,500	- 11	20	44	101.25
Committal	2137	4.1	4.6	2, 0 '	3,000	6.6	20	**	99.00
Committed	2138	4.6	**	3, 0 '	3,000	**	20	44	103.50
Commandant	2140	11	**	2, 0 '	3,500	44	50	**	102.00
Commitable	2141	**	11	3, 0 '	3,500	4.6	20	**	106.50
Commix	2143	44,	61	2, 0 '	4,000	41	30	**	106.50
Commixtion	2144	**	6.6	3, 0 '	4,000		30	44	111.00
Commodious	2146	11	6.6	2, 0 '	4,500	4.4	40	44	114.00
Commodity	2147	64	64	3, 0 '	4,500	66	40	44	118.50
Commoner	2149		64	2, 0 '	5,000	**	50	**	121.50
Commonly	2150	**	4.6	3, 0 .	5,000	11	50	44	126.00
Categorize	1128	4.6	66	2, 0 '	6,000	11	50	**	129.00
Category	1129	44	11	3, 0	6,000	, ,,,	50	4.6	133.50
Catenary	1130	4.6	6.6	2, 0	7,000		50	**	136.50
Catenarian	1137	44	66	3, 0 '	7,000		50	**	141.00
Clayed	1138	66	11	2, 0	8,000		100	**	151.50
Careful	1139	**	4.6	3, 0	8,000		100	4.4	156.00
Colede	1138	"	. "		10,000		100	44	166.50
Colery .	1239	- 66	46	3,0 '	10,000) "	100	44	171.00

Weston Illuminated Dial Station Ammeters.

Combined Instruments and Shunts-Flush Pattern.



No. 2197.

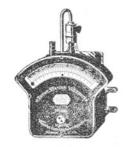
Comical	2120-1	Finisl	h No	2,0to	200 a	mp. in	2 an	ap, divisi	ons 79.50
Comically	21211	**	4.6	3, 0 "	200	4.4	2	**	84.00
Come	30684	44	66	2, 0 "	250	44	2	66	79.50
Coming	30671	66	44	3, 0 "	250	"	2	66	84.00
Commanding	2124	4.1	**	2, 0 "	300	1.6	2	**	79.75
Comment	2127	14	4.6	3, 0 "	300	**	2	4.6	84.25
Commerce	2130	14	4.6	2, 0 "	400	**	5	4.4	80.60
Commercial	2131	+ 4	6.6	3, 0 "	400	- (1	5	**	84.50
Commingle	2132	14	44	2, 0 "	500	6.6	5	4.6	81.00
Commissary	2133	44	(1)	3, 0 "	500	1.6	5	* 6	85.50
Commitment	2136	41	4.6	2, 0 "	600	16	5	cc	82.00
Committer	2139	44	11	3, 0 "	600	4.6	5	**	86.50
Committing	2142	**	"	2,0 "	750	**	5	44	83.00
Commode	2145	11	4.6	3, 0 "	750	**	5	**	87.50
Commodore	2148	6.6	**	2, 0 "	1,000	1.6	10	**	84.00
Conspire	2194	6.6	"	3, 0 "	1,000	(1	10	5.5	88.50
Conspiringly	2197	44	**	2, 0 "	1,200	4.6	10	64	85.00
Constancy	2200	4 4	**	3, 0 "	1,200	6.6	10	**	89.50
Constantly	2203	44	**	2, 0 "	1,500	**	10	44	90.75
Constituent	2206	**	++	3, 0	1,500	**	10	**	95.25

Weston Illuminated Dial Station Ammeters-

			(Con	ti	nucd	·). ·			
Code Word	List No.		•				,			List Price.
Colloquial	2160	Finist	No	. 2, (to	2,000	amp	in 20 :	amp. divis	ions \$95.25
Collusive	2163	٠.	4.	3, 0	• • •	2,000		20	**	99.75
Colonist	2166	64	**	2, 0	"	2.500		20	64,	96.75
Colony	2169	**	**	3, 0	"	2,500	"	20	14	101.25
Colorless	2172	**	"	2, 0	"	3,000	**	20	14	99.00
Claying	2173	**	"	3, 0	٠٠ (3,000		20	**	103.50
Careless	2176	44	**	2, 0	"	3,500	"	20	**	102.00
Carelessly	2179	"	+4	3, 0	•••	3,500	14	20	**	106.50
Caressed	2182		ie	2, (۰۰ (4,000		30	44	106.50
Dialogue	2185	"	6,4	3, 0	٠٠ (4,000	"	30	**	111.00
Diameter	2188		* *	2, 0	٠,	4,500	"	40	• •	114.00
Diamond	2189	"	"	3, (٠٠ (4,500	**	40	"	118.50
Luckily	2190	**	٠.	2, (،، (5,000	• •	50	e.	121.50
Luckiness	2191	**	"	3, 0	••	5,000	. 4	50	**	126.00
Luckless	2192	4.6	**	2, 0	"	6,000	**	50	***	129.00
Lucklessly	2193	44	"	3, 0	. • 4	6,000	44	50	**	133.50
Lucky	470	**	"	2, 0	**	7,000	"	50	**	136.50
Lucrative	471	***	**	3, 0	،،	7,000		50	**	141.00
Litigant	472	"	**	2, 0	"	8,000	"	100	**	151.40
Litigate	473	**	"	3, 0	44	8,000	а	100	**	156.00
Litu	4721	"	44	2, 0	"]	10,000	44	160	66	166.50
Litudone	473≟	44	"	3, 0	"]	10,000	66	100	44	171.00

Extra Shunts for Illuminated Dial Station Ammeters.

And iron	9400 10	to	200	amp, in	2	amp. divisions		3.00
Andesen	94001 0	"	250	"	2	"		3.00
Anemone	9402 0	66	400	**	5	44		3.50
Angel	9403 0	"	500	**	5			4.50
Angling	9404 0	44	600	6:	5	:4		5.50
Angry	9405 0	"	750	**	5		· · · · · · · · · · · · · · · · · · ·	6.50
Angular	9406 0	46	1,000		10	"		7.50
Angus	9407 0		1.200		10	**		8.50
Ann	9408 0	4,4	1.500	**	10			14.25
Announce	9410 0	* *	2,000	"	20	.,	· • • • · · · · · · · · · · · · · · · ·	18.75
Labrication	9411 0	4.	2,500		20	.,		20.25
L ucid	9412 0	**	3,000	**	20	.,		22.50
Lucidity	9413 0	"	3,500	••	20			25.50
Lucifer	9414 0	"	4.000	9	30			30.00
Lumping	9415 0		4.500	**	40	,,		37.50
Lumpish	9416 0	"	5,000	***	50	41	· · · · · · · · · · · · · ·	45.00
Lumpishly	9417 0		6,000	٤.	50	14.4		52.50
Literature	9418 0		7.000	"	50	.,		
Lithograph	9419 0		8.000		100			60.00
Litugun	94191 0		0.000	44	100	41		75.00
•		_	-,		100		• • • • • • • • •	90.00



No. 2164.

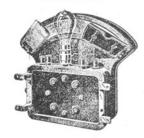
Weston Illuminated Dial Station Voltmeters.

Style "A." or Smaller Sized.

		200	yıc		, 01	Dinanci	Directi				
Code Word.	List No.	c .	0.				1. 11. 1. 1.		37		st Price.
Collided	2152	Scale	e 0 to	85	volts	in single v	olt division	is, tinish	No.	23	55.00
Collier	2153	4.6	0 .,	85	4.4	4.6	4.6	14	4.1	3	57.50
Collision	2155	4.6	0 ''	100	* 6	4.4	4.6	4.4	**	2	56.00
Collocate	2156		0 "	100	1.1	4.4	**	11	4.6	3	58.50
Colloquy	2158	**	0 "	125		4.6	**	**	4.6	2	58.00
Collusion	2159	**	0 "	125	1.6	44	11	1.6	61	3	60.50
Colon	2161	4.6	ó ··	135	**			**		2	60.00
Colonel	2162	**	0	135		4.6		4.1	.4	3	62.50
Colonizing	2164	4.4	0 "	150		4.4	**	**	**	2	62.00
Colonnade	2165	**	0	150	**		+ 6	**	**	3	64.50
Color	2167	**	0	250	**	two	4.6	**		2	64.00
Colorable	2168	**	0 "	250	**		**	. **	**	3	66.50
Colossal	2170	**	0 "	300		**	**	**		2	66.00
Colt	2171	**	0 "	300		4 Eq.	**	**	44	3	68.50



No. 3043-Front.



No. 3043-Rear.

Style "B," or Larger Sized.

Emersion	2174	Scal	e 0 to	125	volts	in single	volt divisions	, finish	No.	2	75.00
Emetic	2175	4.6	0 "	125	4.6	44			4.4	3	79.50
Emigrant	2177	* 1	0 ''	150	4.1	**	***	**	**	2	76.00
Emigrate	2178	**	0 "	150	1.5	**	"		1.6	3	80.50
Emigration	2180	4.4	0 .,	175	**		- 11	**	1.6	2	77.00
Emile	2181	4.4	0 "	175	**	**	**	**	**	3	81.50
Embossed	2183	1.6	0 "	250	**	two	**	**	4.5	2	78.00
Embossment	2124		0 "	250	**	**	**	**	**	3	82.50
Embottle	2186	41	0	300	***	**	**	3.6	4.6	2	79.00
Embottled	2187	+4	0	300	44	**	**	**	**	3	83.50
Adjured	3040	**	0	600	**	five	44	**	4+	2	80.00
Adjurer	3041	**	0 "	600	**		**		**	3	84.50
Adjust	3043		0 "	750		**	**	**	**	2	81.00
Adjusted	3044	* 6	0 .,	750	44	**	**	**	**	3	85.50

Note—For higher ranges, extra multipliers are furnished. Prices quoted on application. In placing order, please give style of lamp socket.

Weston Illuminated Dial Station Voltmeters.



No. 2118.

				F	ush Pa	ttern.					
Code Word.	List No.									Li	st Price.
Columbine	2100	Scale	0 to	125	volts in	single	volt divisions,	finish	No.	25	75.00
Column	2101	**	0 "	125	14	**	6.5	* *	4.4	3	79.50
Coma	2102	. 4	0 ''	150	110	44		4.6	4.6	2	76.00
Comatose	2103	**	0	150	16		4	64	4.6	3	80.50
Combutant	2106	* *	0	175	4.4	61	16	66	4.6	2	77.00
Combinable	2107	e'e-	0 "	175	14	6.6	+ 6		* *	3	81.50
Combination	2108	4.6	0 "	250	6.6	two	44	1.6	64	2	78.00
Combine	2109		0 "	250	11	**	**	44	4.6	3	82.50
Comedy	2112	4.6	0 "	300	66	4.4	4.6	44		2	79.00
Comet	2113	.4	0 "	300	14	44	4.6	44	66	3	83.50
Cometary	2114	4.4	0 "	600	- 0	five	**	44	**	2	80.00
Comfit	2115	**	0 "	600	4.6	4.6	**	4.6	44	3	84.50
Comforted	2118	44	0 "	750		++	11	- 11	11	3	81.00
Comic	2119	**	0 "	750	**	**	**	**	**	3	85.50

Note—For higher ranges, extra multipliers are furnished. Prices quoted on application. In placing order, please give style of lamp socket.

Weston Potential Indicators.

In the Potential Indicator a modification is made in the interior part of the instrument for the purpose of securing a much larger movement of the index for a single volt. In an instrument having a range of 130 volts we can secure a movement of the index equal to about one-third of an inch for a change of one volt in pressure; but this instrument would only begin to read at 90 volts. The instruments are so constructed that the index will be very near the centre of the scale for the normal voltage. The scale is figured in two ways: (1) in volts only, or (2) two sets of figures are given, one set giving the actual voltage, and the other set indicating the number of volts above or below the normal voltage, which is marked zero. The prices for these instruments are the same as for corresponding ranges of Style "B" Illuminated Dial Station Voltmeters.



ILLUMINATED DIAL, FLUSH PATTERN.



ILLUMINATED DIAL, STANDARD.

Weston Railway, Isolated Plant and Feeder

Voltmeters.





No. 1942.

Weston Railway, Isolated Plant and Feeder Ammeters.

FOR DIRECT CURRENT CIRCUITS ONLY.

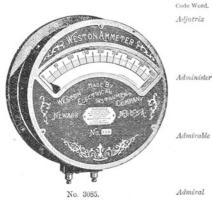
Code Word.	List No.	Round Pattern.
Hosea	1944	No. 1, 1 Ampere Scale. Instrument combined
110360	1944	with shunt. Scale of 100 divisions, each
		division equal to .01 of an ampere, readable
		to tenths of a division, or .001 ampere in any
		part of the scale, each\$25.00
Hugh	1945	No. 2, 5 Ampere Scale. Instrument combined
		with shunt. Scale of 100 divisions, each
		division equal to .05 of an ampere; readable
		to tenths of a division, or .005 ampere in any
		part of the scale, each
Huldan	1946	No. 3, 10 Ampere Scale. Instrument combined
		with shunt. Scale of 100 divisions, each
		division equal to .1 of an ampere, readable to
		tenths of a division, or .01 ampere in any part
		of the scale, each
Humphrey	1947	No. 4, 15 Ampere Scale. Instrument combined
		with shunt. Scale of 150 divisions, each
		division equal to .1 of an ampere, readable to
		tenths of a division, or .01 ampere in any part
		f of the scale, each
Bigot	1999	No. 5, 25 Ampere Scale. Instrument combined
		with shunt. Scale of 125 divisions, each
		division equal to .5 of an ampere, readable to
		tenths of a division, or .05 ampere in any part
		of the scale, each
Bigoted	2000	No. 6, 50 Ampere Scale. Instrument combined
	•	with shunt. Scale of 100 divisions, each
		division equal to .5 of an ampere, readable to
		tenths of a division, or .05 ampere in any part
		of the scale, each 25.50
Bigotry	1080	No. 7, 75 Ampere Scale. Instrument combined
		with shunt. Scale of 150 divisions, each
		division equal to .5 of an ampere, readable to
		tenths of a division, or .05 ampere in any part
		of the scale, each
Adjutage	2678	No. 8, 100 Ampere Scale. Instrument with
		separate shunt. Scale of 100 divisions, each
		division equal to 1 ampere, readable to tenths
		of a division, or .1 ampere in any part of the
		scale, each
Adjutan t	3081	No. 9, 150 Ampere Scale. Instrument with
		separate shunt. Scale of 150 divisions, each
		division equal to 1 ampere, readable to tenths
		of a division, or .1 of an ampere in any part
		of the scale. each

List No.

Weston Railway, Isolated Plant and Feeder Ammeters—(Continued).

3082 No. 10, 200 Ampere Scale. Instrument with

List Price.



		separate shunt. Scale of 100 divisions, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each
Administer	3083	No. 11, '250 Ampere Scale. Instrument with separate shunt. Scale of 125 division's, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each
Admirable	3084	No. 12, 300 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each
Admiral	3085	No. 13, 400 Ampere Scale. Instrument with separate shunt. Scale of 80 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each
Clausure	1088	No. 14, 500 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each
Clawed	1089	No. 15, 600 Ampere Scale. Instrument with separate shunt. Scale of 120 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the . scale, each
Clawing	1092	No. 16, 750 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each
Clawless	1093	No. 17, 1,000 Ampere Scale. Instrument with separate shunt. Scale of 100 divisions, each division equal to 10 amperes, readable to tenths of a division, or 1 ampere in any part of the scale, each
Clay	1094	No. 18, 1,200 Ampere Scale. Instrument with separate shunt. Scale of 120 divisions, each division equal to 10 amperes, readable to tenths of a division, or 1 ampere in any part of the scale, each

Weston Railway Isolated Plant and Feeder Ammeters—(Continued.)

Code Word.	List No.	List Price. Each.
Sarcoma	21361	No. 19, 1500 Ampere Scale, instrument with separate shunt, scale with 150 divisions, each division equal to 10 amperes; readable to tenths of a division or 1 ampere in any part of the scale, each
Sarcomatus	21362	No. 20, 2000 Ampere Scale instrument with separate shunt, scale with 100 divisions, each division equal to 20 amperes; readable to tenths of a division or 2 amperes in any part of the scale; each
, Sarcophgan	21363	No 21, 2500 Ampere Scale, instrument with separate shunt, scale with 125 divisions, each division equal to 20 amperes, readable to tenths of a division or 2 amperes in any part of the scale, each

Differential Volt Meters.

In order to obviate the observing of two independent instruments and the incidental reading errors when bringing up dynamos to the normal voltage for throwing in on bus bar, an illuminated dial differential voltmeter has been devised. There is a difference in construction in these instruments for either two wire or three wire systems.

Two Wire System.

Sarcophagus 21364	Scale	130-0-130	volts	in 2	divisions,	No.	2 finish	, 85.00
Sarcophay 21365	44	500-0-500	66	10	44	No.	2 "	90.00
Surcorampus 21366	"	600-0-600	"	10	66	No.	2 "	95.00

Three Wire System.

Sarcosis	21367	Scale	130-0-130	volts	in 2	divisions,	No.	2 finish,	85.00
Sarcotic	21368	**	500-0-500	"	10	**	No.	2 "	90.00
Surculation	21369	**	600-0-600	ii.	10	44	Nα.	2 "	95 กก

No. 2 finish is dead-black japan with nickel trimming,

No. 3 finish, which is all nickel plated, brass or copper finish, is \$4.50 extra.

List No.

Code Word.

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits.

Each instrument is enclosed in a leather case, supplied with shoulder strap, lock and key and furnished with a pair of flexible connecting cords, for both of which no extra charge is made.

List Price.

Single Scale Instruments.



Louis word.	LISU NO.		St Price.
Cleansed	2614	No. 1. Scale 1.5 to 7.5 volts, from 1.5 volt up in $\frac{1}{10}$ volt divisions; best range 2.5 to 6.5 volts, within that range readable to $\frac{1}{100}$ of a volt, each	\$60.00
Clearance	2615	No. 2. Scale 1.5 to 10 volts, from 1.5 volt up in γ_0 volt divisions; best range 4 to 9 volts, within that range readable to γ_{00} of a volt, each	60.00
Oleared	2616	No. 3. Scale 2 to 12 volts, from 2 volts up in $_{1^6}$ volt divisions; best range 5 to 11 volts, within that range readable to $_{1\overline{100}}$ of a volt, each	60.00
Clearing	2617	No. 4. Scale 3 to 15 volts, from 3 volts up in $\frac{1}{15}$ volt divisions: best range 5.5 to 12 volts, within that range readable to $\frac{1}{150}$ of a volt, each	60.00
Clearness	2618	No. 5. Scale 3 to 20 volts, from 3 volts up in $\frac{1}{5}$ volt divisions: best range 7 to 18 volts, within that range readable to $\frac{1}{25}$ of a volt, each	60.00
Cleavage	2619	No. 6. Scale 10 to 60 volts, from 10 volts up in ½ volt divisions; best range 25 to 55 volts, within that range readable to $_{2^{1}0}$ of a volt, each.	60.00
Cleav	2620	No. 7. Scale 15 to 75 volts, from 15 volts up in $\frac{1}{2}$ volt divisions; best range 30 to 65 volts, within that range readable to $\frac{1}{2}$ of a volt, each.	60.00
Cleared	2621	No. 8. Sc le 20 to 120 volts, from 20 volts up in 1 volt divisions; best range 50 to 110 volts, within that range readable to τ_0 of a volt, each	65.00
Cleare	2622	No. 9. Scale 30 to 150 volts, from 30 volts up in 1 volt divisions; best range 70 to 125 volts, within that range readable to 10 of a volt, each.	
Clef	2623	No. 10. Scale 60 to 300 volts, from 60 volts up in 2 volt divisions; best range 140 to 250 volts, within that range readable to ½ of a volt, each	70.00
Clement	2624	No. 11. Scale 100 to 600 volts, from 100 volts up in 5 volt divisions; best range 250 to 550 volts, within that range readable to ½ of a volt, each	80.00
		,	-0.00

List Price.

List No.

Code Word.

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits—(Continued)

High Range Voltmeters with Extra Multipliers. Single Scale Instruments.

Code Word.	List No.
Cleaned	2625 No. 12. Seale 200 to 1,200 volts; scale like No.
	8 with ten times the value (10 volts) per division, each
Cl autu	2626 No. 13. Seale 300 to 1,500 volts; scale like No.
Cleanly	9 with ten times the value (10 volts) per divis-
	ion, each
Cleanness	2627 No. 14. Scale 400 to 2,400 volts; seale like No.
0.0	8 with twenty times the value (20 volts) per
	division, each
Cleanse	2628 No. 15. Scale 600 to 3,000 volts; scale like No.
	10 with ten times the value (20 volts) per divis-
	ion. each
	Double Scale Instruments.
	In ordering double scale instruments it is necessary to
	choose the ratio of the two seales, as 1 to 2 for self-contained instruments, since it is not feasible to have the
	temperature regulator answer for two scales of greater
	ratio. If a higher range is desired to be obtained by
•	means of a separate multiplier the ratio is not com-
	pulsory, since the temperature regulator then answers
	for the range of the instrument self-contained, while the
	dimension of the wire in the multiplier is so chosen that
	temperature corrections for the multiplier are not neces-
	sary if the instrument is kept in circuit for only a short
	time. A self-contained instrument, with single or double
	scale, can thus be supplied with three or more scale
	values. For most practical and all laboratory purposes
	we recommend the double seale instruments as affording a wider range of greater accuracy.
Clergy	2636 No. 16. Scale 3 to 15 volts and 1.5 to 7.5 volts;
Ciergy	upper seale like No. 4, lower seale like No. 1,
	each
Clerical	2637 No. 17. Scale 3 to 20 volts and 1.5 to 10 volts:
	upper scale like No. 5, lower scale like No. 2,
	each 70.00
Client	2638 No. 18. Seale 20 to 120 volts and 10 to 60 volts,
	upper scale like No. 8, lower scale like No. 6,
	each 70.00
C''if'	2639 No. 19. Scale 30 to 150 volts and 15 to 75 volts;
	upper scale like No. 9, lower scale like No. 7, each
Climate	each
Camara	upper seale like No. 5, lower scale like No. 2,
	with ten times the value per division, each 75.00
Climatic	2641 No. 21. Scale 60 to 300 volts and 30 to 150 volts,
	upper scale like No. 10, lower scale like No. 9,
	each 80.00
Climax	2642 No. 22. Seale 100 to 600 volts and 50 to 300
	volts, upper seale like No. 11, lower scale like
	No. 10, each

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits—(Continued).

No. 3679.

Inspectors' Pattern Voltmeters.

Under the name of "Inspectors' Pattern" we furnish the Voltmeters in a highly polished mahogany box, into which the instrument is permanently fastened. All of these instruments are provided with a reversing key. Instead of the regular binding posts, contact pins are provided, on which contact is made by means of contact cups fastened to flexible cords. The flexible cord is either furnished with plain pins or it may be provided with a contact plug to fit our lamp adapters.

For Direct Current Circuits.



No. 3684.

Code Word.	List No.	List	t Price.
Community	3679	Style No. 1. Highly polished mahogany box- with lock and key, flexible connecting cord.	
		Additional to listed price, each	\$4.0(

Flora

Fergus

3684 Style No. 3. Highly polished mahogany box, with lock and key; compartment with set of four lamp adapters (Edison, Thomson-Houston, Westinghouse, Weston); flexible connecting cord with plug contact to fit lamp adapters. Additional to listed prices, each... 10.00



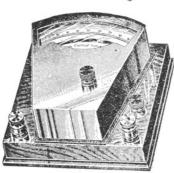
No. 3683.

For Alternating Current Circuits.

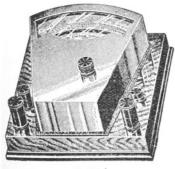
3683 Style No. I. Highly polished mahogany box, with compartment box with lock and key. The compartment is intended for the reception of the flexible connecting cord and one or more lamp adapters. Additional to listed

circuit.









No. 2307 1

Plugs, Cords and Lamp Adapters.

The cut shows the flexible conductor, with plug contact for inserting in the Adapters and for quickly reversing the current. These Lamp Adapters are made in four styles—viz., for Edison, Thomson-Houston, Westinghouse and Weston sockets.

Code Word.	List No.	Li	st Price.
Clayish	2629	Price of Single Lamp Adapters, each	\$1.25
Claymore	2630	Flexible Connecting Cord, with plug contact,	
		if ordered separately, each	1.25
Clean	2631	Flexible Connecting Cord, with plain contact, if ordered separately, each	1.25
Ferdinand	3685	Mahogany Box with set of 4 Adapters and	1120
2010000000	0000	Flexible Cord, each	7.50

Whitney Electrical Measuring Instruments.

It is important in ordering instruments to state whether they are to be used in a vertical or horizontal position.

Whitney Voltmeters for Continuous Currents

Class A.

Measly	2295	No	. 1.	Scal	e 0	to	15	volts in	10	volt div.,	each	20.00
Measure	2296	**	9.	1.6	0	"	100	44 -	1	"	11	23.00
Measured	-2297	64	15.	14	•0	11	150	"	1	**	**	25.00
	Note-	-Th	iese	instru	ıme	nt	s will	heat if	1	eft too lon	g in	

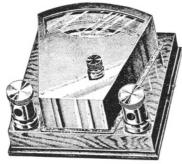
Class B.

Measuring	2298	No	. 2.	Scale	0	to	15	volts in	10	volt div.,	each	25.00
Meat	2299	**	10.	"	0	**	100	**	1	**	10	28.00
Mechanic	2304	"	16.	**	0	11	150	**	1	4.6	44	30.00
Mechanics	2305	14	21.	**	0	11	300	**	2	4.6	**	40.00
Mechanism	2306	**	25.	**	0	**	600	**	5	14	66	50.00
Medalet	2307	**	27.	**	0	11	750	**	5	**	"	60.00

Note—These instruments may be left continuously in circuit by giving the contact button a quarter turn.

Whitney Voltmeters for Alternating Currents.

Medalist	2307 Scale 0 to 75 volts, reading from 15 to 20 volts	
	in 1 volt divisions, from 20 to 75 volts in ½ volt divisions, each	.00
Medallion	2308 Scale 0 to 150 volts, reading from 30 to 40 volts in 2 volt divisions, from 40 to 150 volts in 1	
	volt divisions, each	.00



Whitney Ammeters for Continuous Currents.

	Code Word.	List No.									I.	ist Price.
	Medicinal	2309	No	. 31.	Scal	e 0 to	10 ar	np. ir	i'ga	mp. div	., each	\$21.00
	Medicine	2310	**	39.	**	0	25	**	1	**	**	23.00
1	Meditat	2311	**	43.	**	0 "	50	11	1/2	**	**	24.00
1	Meditated	2312	**	47.	4.6	0 "	100	**	1	44	**	28.00
	Medium	2313	+4	51.	**	0 "	150	44	1	**	**	30.00
	Medley	2314	4.6	55.	**	0 "	280	14	2	14	**	35.00
	Medusa	2315	**	61.	"	0 "	400	4.4	5	**	**	45.00
	Meek	2316		65.	**	0 "	500	**	5	44	**	50.00
	Meckly	2317	4.6	66.	**	0 "	600	**	5	4.6	**	55.00
	Meekness	2318	**	67.	"	0 "	700	4 .	7	16	**	60.00
	Mecrschaum	2319	"	68,	44	0 "	800	1.4	10	316	**	65.00
	Meeting	2320	**	69.	**	0 "	1000	*4	10	16	**	70.00

No. 2309.

Whitney Ammeters for Alternating Currents.

2321	Scale 0 to 5 amperes, from 1 to 5 amperes in $\frac{1}{20}$ ampere divisions, each	45.00
2322	Scale 0 to 25 amperes, from 5 to 25 amperes, in	
2323		00.00
	ampere divisions, each	55.00
2324	Scale 0 to 100 amperes, from 10 to 100 amperes,	
	in 1 ampere divisions, each	60.00
2325	Scale 0 to 150 amperes, from 15 to 150 amperes,	
	in 1 ampere divisions, each	65.00
2326	Scale 0 to 200 amperes, from 20 to 200 amperes,	
	in 2 ampere divisions, each	70.00
2327	Scale 0 to 300 amperes, from 30 to 300 amperes,	
	in 2 ampere divisions, each	75.00
2328	Scale 0 to 400 amperes, from 40 to 400 amperes,	
	in 4 ampère divisions, each	80.00
2329	Scale 0 to 500 amperes, from 50 to 500 amperes,	
	in 5 ampere divisions, each	85.00
	2322 2323 2324 2325 2326 2327 2328	ampere divisions, each



No. 2330.

No. 2331.

Carrying Cases for Whitney Instruments.

Memoir	2330	Wooden	Carrying	Case,	with handle,	each	1.00



Bristol's Recording Ampere Meters.

For Direct Current.

Sard	21370	Working range to 12 amperes, 24-hour chart, total range 0 to 15 ampères	60.00
Sordachute	21371	Working range to 25 amperes, 24-hour chart, total range 0 to 30 amperes	60.00
Sardan	21372	Working range to 50 amperes, 24 hour chart,	
Sardel	21373	total range 0 to 60 amperes	60.00
		total range 0 to 180 amperes	60.00
Surdine	21374	Working range to 270 amperes, 24-hour chart, total range 0 to 300 amperes	80.00
Sardins	21375	Working range to 550 amperes, 24-hour chart,	00.00
		total range 0 to 600 amperes	80.00
Satchel	21425	Working range to 1100 amperes, 24-hour chart,	
~		total range 0 to 1200 amperes	80.00
Sate	21426	Working range to 2200 amperes, 24-hour chart, total range 0 to 2400 amperes	90.00
Sateless	21427	Working range to 3300 amperes, 24-hour chart,	50.00
		total range 0 to 3600 amperes	100.00

For Alternating Current.

Satelite	21428	For 8400 Alts. per minute, working range to 8 amperes, 24 hour chart, total range 0 to 10	
		amperes	60.00
Satelitions	21429	For 15000 Alts. per minute, working range to 80 amperes, 24-hour chart, total range 0 to	
		100 amperes :	60.00
Acop	25591	For 15000 Alternations per minute, working	
		range to 20 Amperes 24 hours chart	60.00
Acoptic	.25592	For 15000 Alternations per minute, working	
		range to 50 Amperes, 24 hours chart	60.00
Acorned	25593	For 7200 Alternations per minute, working	
		range to 130 Amperes, 24 hour chart	60.00

Ink and 100 charts with each instrument. Meters for other ranges made to order.





No. 21893.

Bristol's Recording Voltmeters.

For Direct Current.

		i or birect current.	
Code Word.	List No.	1	ist Price.
Sardinian	21376	Working range to 5 volts, 24-hour chart, total range 0 to 6 volts	\$60.00
Sardoin	21377	Working range to 25 volts, 24-hour chart, total range 0 to 25 volts	60.00
Sardonic	21378	Working range to 55 volts, 24-hour chart, total range 0 to 60 volts	60.00
Sardonyx	21379	Working range to 110 volts, 24-hour chart, total range 0 to 120 volts	60.00
Saree	21380	Working range to 120 volts, 24-hour chart, total range 0 to 130 volts	60.00
Sargusso	21381	Working range to 130 volts, 24-hour chart, total range 0 to 140 volts	60.00
Sari	21382	Working range to 260 volts, 24-hour chart, total range 0 to 280 volts	60.00
Sarigue	21383	Working range to 275 volts, 12-hour chart, total range 0 to 300 volts	60.00
Sark	21384	Working range to 550 volts, 24-hour chart, total range 0 to 600 volts	60.00
Sarlac	21385	Working range to 550 volts, 12-hour chart, total range 0 to 600 volts	60.00
Sarlyk	21386	Working range to 600 volts, 24-hour chart, total range 0 to 650 volts	60.00
		For Alternating Current.	
Sarking	21387	Working range to 60 volts, 24-hour chart, total range 0 to 65 volts	60.00

Sarking	21387	0 0 , , , , , , , , , , , , , , , ,	
		range 0 to 65 volts	60.00
Sarmatic	21389	Working range to 110 volts, 24-hour chart, total	
		range to 120 volts	60.00
Sarment	21390	Working range to 120 volts, 24-hour chart, total	
		range to 130 volts	60.00
Sarmentaeus	21391	Working range to 150 volts, 24-hour chart, total	
		range 0 to 160 volts	60.00

Bristol's Recording Watt Meters.

For Direct Current.

Surmentose	21392	Working range to 5 K-W, all voltages, 24-hour chart, total range 0 to 6 Kilo Watts	70.00
Sarn	21393	Working range to 15 K-W, all voltages, 24-hour	
120	20020	chart, total range 0 to 18 Kilo Watts	70.00
Sarony	21394	Working range to 25 K-W, all voltages, 24-hour chart, total range 0 to 30 Kilo Watts	70.00
Saros	21395	Working range to 75 K-W, all voltages, 24-hour	
		chart, total range 0 to 90 Kilo Watts	85.00
Sarplar	21396	Working range to 150 K-W, all voltages, 12-	
		hour chart, total range 0 to 180 Kilo Watts	85.00

Ink and 100 charts with each instrument. Meters for other ranges made to order.



No. 6843.

Thompson Recording Watt Meters.

The Thompson Recording Watt Meter is a motor meter and measures accurately the amount of power consumed in the circuit upon which it is placed. It is designed for use on both alternating and direct currents, and for the measurement of light or power energy in either large or small quantities. The following are the standard sizes and net prices:

Two Wire, 50 Volts.

Code Word.	List No.	Amperes,	Lamps 16 C. P.	List Price. Each.
Nabob	6843	10	10	25.00
Nacre	6540	15	15	30.00
Nacrite	6541	25	25	36.00
Naiad	6542	50	50	45.00
Naidor	65421	75	75	55.00
Nail	6543	100	100	70.00
Nailing	6544	150	150	80.00
Nailed	6950	300	300	110.00
Naively	6951	600	600	150.00
Naked	6964	1,200	1,200	250.00
Nab	6964+	2,500	2,500	330.00
Nabit	69651	5,000	5,000	370.00
Nablum	69681	8,000	8,000	400.00

Thirty Volt Meters for use in connection with Constant Potential Arc Lighting Circuits will be furnished at the price of the same Ampere capacity of 50 Volt Meters.

Two Wire, 100 to 110 Volts.

Nankeen	6935	5	10	27.50
Nape	6734	10	20	30.00
Naptha	6565	15	30	33.00
Napkin	6566	25	50	45.00
Napless	6567	50	100	50.00
Nacarat	6567 +	75	150	70.00
Nappy	6568	100	200	80.00
Narcissus	6569	150	300	100.00
Nach	6569 %	200	400	110.00
Narcotic	6954	300	600	130.00
Nacker	6954 +	450	900	160.00
Narrative	6955	600	1,200	190.00
Narrow	6965	1,200	2,400	320.00
Saprot	6966	2,500	5,000	380.00
Sapsago	6967	5,000	10,000	425.00
Sapskull	6968	8,000	16,000	460.00

THREE WIRE, 220 VOLTS.

Narrowing	6735	71	33	35.00
Narrower	6563	15	66	50.00
Nasal	6597	25	110	60.00
Natal	6570	50	220	75.00
Nacreous	6570 ±	75	300	85.00
Nation	6571	100	440	100.00
Native	6572	150	60	125.00



No. 6948.

Thomson Recording Watt Meters—(Continued.)

For Power Service.

Two Wire, 220 Volts.

Code Word.	List No.	Amperes.	Horse- power,	List Price. Each,
Naticely	6948	5	11	\$ 36.50
Nativity	6538	15	3 ±	50.00
Natural	6555	25	7	60.00
Naturalist	6556	50	15	70.00
Nadab	6556+	75	20	85.00
Naturalize	6557	100	25	100.00
Nature	6558	150	40	120.00
Nadir	6558}	200	50	135.00
Nausea	6813	300	80	150.00
Nadelstein	68137	450	125	190.00
Nave	6814	600	160	220.00
Navigable	6966 ±	1,200	320	300.00
Naeve	6966±	2,500	700	425.00
Naevase	6970±	5,000	1,400	475.00
Nafe	69711	8,000	2,200	520.00
		Two Wire, 500 V	OLTS.	
Astride	6949	3	11/2	\$ 40.00
Naff	6950±	10	5	55.00
Astringe	6539	15	7±	60.00
Astringency	6559	25	15	65.00
Astringent	6560	50	30	85.00
Nag	6560±	75	50	100.00
Astringing	6561	100	60	110.00
Astrology	6562	150	100	125.00
Naggy	6562	200	120	150.00
Astronomer	6815	300	200	175.00
Nagor	6815±	450	300	225.00
Astute	6816	600	400	275.00
Astutely	6967 1	1,200	800	375.00
Nationt	6973±	2,500	1,600	450.00
Nais	69741	5,000	3,200	500.00
			E 400	EE0 00

Primary Circuits

5,400

8,000

Naif

69751

550.00

1,000 to 2,000 Volts. Prices Include Transformer.

		Amperes.	
Nailball	65721	10	80.00
Navigably	6573	20	90.00
Nacigate	6574	30	100.00
Navigator	6575	60	125.00
Navigation	6576	120	160.00
Neel	6577	300	210.00
Nailbrush	6577₺	600	300.00

Portable Meters for Street Car Testing, Etc.

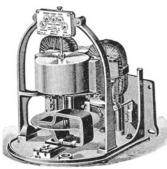
500 Volts.

Nailer	21000	13	Н. Р.,	3	Am	р	 	 			 		55.00
Nuileress	21001	71	44	15	66		 	 					70.00
Nailery	21002	15	44	25	**			 			 		85.00
Nailheaded	21003	30	64	50	44								100.00

Thomson Recording Watt Meters—(Continued.)

Arc Circuit Meters.

Code Word.	List No.															1	List Price. Each.
Nainsook	21004	4 1	ights, €	S. A.	Amp												
Naissant	21005	4	" 10	,	"												65.00
Naivel	21006	8	" 6	10	"								 				75.00
Naivete	21007	8	" 10		"												75.00
		A	rc Circ	uit .	Statio	on	Γ	le	te	r	š.						
Namelessly	21008	35	lights,	6,8	Amp							 					110.00
Nameplate	21009	35	64	10	"							 					110.00
Namingly	21010	50	66	6^{8}_{10}	66												125.00
Nan	21011	50	66	10	66							 					125.00
Nandor	21012	65	66	6_{10}^{8}	66							 					135.00
Nandu	21013	65	66	10	66							 					135.00
Nantes	21014	80	44	6_{10}^{8}	64							 					150.00
Nap	21015	80	44	10	44							 					150.00



No. 21404.

The Scheeffer Recording Watt Meter.

For Alternating Circuits.

LIGHTS RATED ON A BASIS OF 50 WATTS PER LAMP.

50 Volts.

Sartorial	21404	10	Lights,	10	Amperes								\$25.00
Sartorious	21405	15	66	15	44								30.00
Sary	21406	20	66	20	"								34.00
Sash	21407	30	44	30	46								37.00
Sashorn	21408	40	66	40	66								41.00
Sasin	21409	50	64	50	a			_					45.00
Sassafras	21410	75	66	75	44								55.00
Sassanage	21411	100	"	100	44								70.00
Sasse	21412	150	44	150	44								80.00
Sassolin	21413	300	44	300	66								110.00

100 to 110 Volts.

Sassoral	21414	10	Lights,	5	Amperes									27.00
Sassoralla	21415	20	**	10										
Sassybark	21416	30	44	15										
Sastra	21417	40	44	20										41.0
Sat	21418	50	44	25										
Satan	21419	60	. "	30										
Satanie	21420	70	44	35										48.00
Satanical	21421	100	66	50										
Satanism	21422	150	44	75										70.00
Satanist	21423	200	"	100										80.00
Satanophon	21424	300	66	150										100.00

Code Word.

Sculpture.

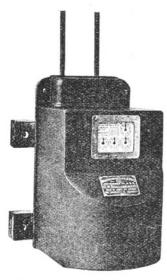
Seum

21676

Score

List No.

21645



The Shallenberger Meter.

For Alternating Current.

The meter is a direct reading instrument, recording the amount of current which has passed through it, on a dial (herewith illustrated) presenting much the same appearance as that of an ordinary gas meter. The unit of measurement is the "ampere hour."

Code Word.	List No.																	J	List Price
Surplier	21397	5	Ampere	7,															\$13.75
Sarrasin	21398	10	44																15.00
Sarsa	21399	20	66																18.75
Sarsaparilla	21400	40	44								į								22.50
Sarso	21401	80	44																31.25
Sarsenet	21402	120	46																43.75
Sart	21403	160	44		4							. ,				,			50.00

Duncan Alternating Current Recording Meters

For Lamp Hours or Ampere Hours,
For 50 Volt Lamps.

5 16 c, p. Lamps Capacity or 5 Amperes \$25.00

List Price:

Scout	21646	10	14	44	6.5	10	44		25:00
Scrubble	21647	15	4%	64	44	15	60		30.00
Serng	21648	20	64	61	6.6	20	6.6		33.00
Seramble	21649	25	+6	46	6.6	25	5.6		36.00
Serap	21650	30	**	44	44	30	16		38.00
Serape	21651	40	44	44	44	40	44		41.00
Scrutch	21652	50	44	4.4	41	50	44		45.00
Sernet	21653	60	66	44	44	60	46		50.00
Serrak	21654	80	61	**	46	80	64		60.00
Seream	21655	100	+6	4.6	44	100	44		70.00
Sereech	21656	120	16	44	6.6	120	66		80.00
Sercen	21657	160	44	4.6	44	160	64		100.00
Scribble	21658	200	. 44	. 44	46	200	46		120.00
			For	ioo Vol	t Lamps				
Seribe	21659	10	16 c. p.	Lamps	Capacity	or 5	Amper	nes	28.00
Sering	21660	20	44	6.6	44	10	66		30.00
Serip	21661	30	**	44	**	15	44		33.00
Script.	21662	40	**	44	46	20	66		37.00
Scripture	21663	50	44	44	44	25	64		41.00
Sericener	21664	60	**	44	.44	30	66		45.00
Serofula	21665	80	66	66	66	40	44		50.00
Seroll	21666	100	44	44	66	50	66		55.00
Scrub	21667	120	44	44	44	60	66		60.00
Scruple	21668	160	44	4.6	44	80	44		75.00
Secreting	21669	200	6.6	66	46	100	66		85.00
Scrutoire	21670	240	54	44	44	120	44		95.00
Soud	21671	320	4.6	**	46	160	6.6		115.00
Scutte	21672	400	4.6	44	**	200	66		135.00
	Primary	Met	ers for	1,000	or 2,000	Volt	Curre	nts.	
Scutt	.21673	5	Amper	es					26.50
Srullery	21674	10	44						30.00
Scuttion	21675	15	6.6						36:00





Duncan Alternating Current Recording Meters (Continued.)

Primary Meters for 1,000 or 2,000 Volt Currents-(Continued.)

Code Word.	List No.																P	rice Ea
Seupper	21678	30	Ampere	8.										. ,				4
curt	21679	40																4
Scurrilous	21680	50	44															5
Scurry	21681	60	44										į.					6
Scutcheon	21682	80	44															
Scuttle	21683	100	44															8
Scythe	21684	120	16															9
Sen	21685	160	44															12
Seabourd	21686	200	66									ļ.						144

Duncan Recording Wattmeters for Alternating Currents.

Lamp Rating based upon 50 Watt Lamps,

For	50	Volt	Circuits.

Scufurer	21687	- 5	16 c.	p. Lamps	Capacity	or 5	Amper	es	\$25.00
Seal.	21688	10	66	44	66	10	**		25.00
Seam	21689	15	64	44	66	15	44		30.00
Seaman	21690	20	44	6.6	44	20	44		33.00
Seamstress	21691	25	46	66	**	25	44		36.00
Seur	21692	30	44	44,	44	30	16		38.00
Search	21693	40	6.6	- 66	66	40	66		41.00
Season	21694	50	44	6.0	44	50	66		45.00
Semworthy	21695	60	44	44	44	60	44		50.00
Seut	21696	80	44	44	44	80	4.0		60.00
Sebaceous	21697	100	11	64	66	100	66		70.00
Secunt	21698	120	44	44	66	120	4.6		80.00
Secede	21699	160	44	44	44	160	44		100.00
Seckel	21700	200	66	44	44	200	"		120.00
			For	100 Volt	Circuits				
Seclude,	21701	10	16 c.	p. Lamps	Capacity	or 5	Amper	es	28.00
Second	21702	90	66	66	11	10	11		30.00

			For 1	oo Volt	Circuits.				
Seclude,	21701	10	16 c. p.	Lamps	Capacity of	5	Ampere	8	28.00
Second	21702	20	66	.66	11	10	11		30.00
Secret.	21703	30	66	6.6	44	15	66		33.00
Secretary	21704	40	66	66	**	20	44		37.00
Secrete	21705	50	4.5	66	44	25	44		41.00
Sect.	21706	60	11	44	66	30	44		45.00
Sectile	21707	80	66	44	44	40	44		50.00
Section	21708	100	66	66	64	50	44		55.00
Sector	21709	120	66	66	44	60	4.6		60.00
Secular	21710	160	44	66	44	80	44		75.00
Secure	21711	200	44	4.6	16	100	44		85.00
Sedan	21712	240	64	44	6.6	120	66		95.00
Sedate	21713	320	6.6	64	44	160	66		115.00
Sedutice	21714	400	66	66	44	200	44		135.00

For Primary Circuits, 1,000 or 2,000 Volts.

(Price includes Transformer.)

Sedentary	21715	5.	Amperes														75.
Sedge	21716	10	66								0						80.
Sediment	21717	15	66														85
Sedition	21718	20	66														90.
Seduce	21719	25	66														95.
Sedulous	21720	30	66														100
Seed	21721	40	66														110.
Seedy	21722	50	44														118.
Seek	21723	60	66														125.
Seem	21724	80	61														
Scendy	21725	100															150.
Seen.	21726	120															160.
Seer	21727	160															175.
Seethe	21728	200															190.

Code Word.

Ladyism

List No.

3686

No.

Weston Portable Wattmeters.



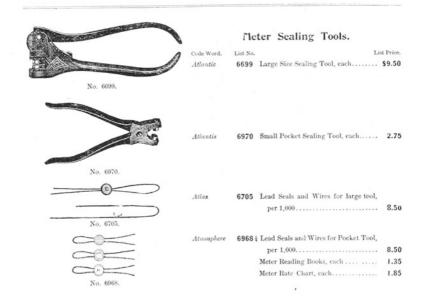
No 3686

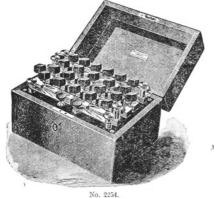
Maximum

List Price.

Laugism	3000	140.	0 10 100	vatts in 1	watt divisions, 2 an	uperes, 100 ve	nts, each	
Ladylike	3687	{" 1A	0 " 75 0 " 150	" ½ " 1	2	" 75	{	75.00
Lacerta	3688 ½	of incar any sy meter,	0 to 150 we ndescent la stem. In a set of for	mps, espe a highly ir lamp ad	att divisions, for inscially designed for polished carrying lapters, etc., same a	spectors, sales ready connec case of cherr s furnished w	ctions to any lan y are contained ith the No. 3683	np socket of I the Watt- Inspectors'
						Maximum Current	Maximum Voltage	
Lacertian	3689	No. 2.	0 to 1,50	0 watts in	10 watt divisions,		, 150 volts, each	70.00
Lacertilian	3690	" 2A.	0 " 75 0 " 1,50		5 "	10 ··· 10 ···	75 · · · · · · · · · · · · · · · · · · ·	} 75.00
Lacertine	3691	" 3	0 " 3,75	0 "	25 "	25 "	150	75.00
Lacuna	3692	{" 3A	0 " 1,50 0 " 3,00		10 " 20 "	25 ··· 25 ···	75 ··· 150 ··	80.00
Lactuca	3693	" 4.	0 " 7,50	0	50	50	150	75.00
Lacunar	3694	{ " 4A.	0 " 3,75 0 " 7,50		25 ··· 50 ···	50 ···	75 ··· 150 ···	80.00
Laminate	3695	5	0 · 15,00	0 "	100	100 "	150 "	80.00
Lanary	3695 ₺	} " 5A.	0 · · 7,50		50 ··· 100 ··	100 "	75 ··· 150 ···	85.00
Lamellar	3697	6	0 '' 30,00	0 "	200 "	200 "	150	85.00
_		(" 6A.	0 " 15,00) "	100 "	200 "	75 "	1 00.00
Lamelliform	3698	ĺ	0 " 30,00) "	200 "	200 "	150 ''	90.00

The above prices include a Carrying Case of polished cherry. For all ranges from No. 3 upwards this Carrying Case contains a separate compartment for linen covered flexible cables furnished with the instrument. These cables are provided with special terminals to insure good contacts on the instruments, and are of sufficiently large cross-section to carry the maximum current for which the instrument is designed.





Post Office Bridge and Rheostat.

Michael 2255 Same, without galvanometer 100.00



Combination Bridge, Rheostat and Galvanometer.

mproved Form with Revolving Galvanometer.

This instrument consists of a sensitive Detector Galvanometer and an improved form of Wheatstone Bridge, with Rheostat, all arranged in one case so as to form a complete and perfect portable apparatus for measuring resistance.

We manufacture two sizes: No. 1 measures from one-hundredth of an ohm to 111,000 ohms. It has on each arm bridge coils of 10 ohms, 100 ohms and 1,000 ohms. The Rheostat consists of three rows of ten coils each, the first rows being coils of one ohm each, designated "units," the second of ten ohms each, designated "tens," and the third of 100 ohms each, designated "hundreds."

The case is of polished mahogany, measuring 84x84x5% inches.

Code Word.	List No.			Li	st Price. Each.
Midship	2260	No. 1	Instrume	nt\$	75.00
Midst	2261	No. 2	**		85.00

No. 2 measures from one hundredth of an ohm to 1,110,000 ohms. The construction is the same as No. 1, but there is an additional row of ten one thousand ohm coils in the Rheostat. The size of the same is $8\frac{1}{2}\times10$, $\times5\frac{1}{2}$ inches.

The arrangement of coils is such that one plug only is used to each row, thus avoiding the multiplicity of bad connections on account of ill-fitting plugs, and making the reading as simple as possible. If, for-instance, in balancing the bridge, it is required to put the plug of the "hundreds" row into "seven," of "tens" row into "five," and of units row into "three," instead of adding up the coils, one reads direct 753: ohms.



Wheatstone Bridge.

Consisting of a detector galvanometer so constructed that it may be revolved independently of the case; Wheatstone Bridge and rheostat in case with hard rubber engraved face.

A card of instructions accompanies each instrument.

 Code Word.
 List No.
 List Price.

 Somnific
 25076
 Each......................\$80.00





Adjustable Transformer.

This Transformer is for use where the alternating current alone is available: It will give an alternating current of one to twenty amperes up to 30 volts pressure, and is particularly well adapted for hospital and dental work, where heavy currents are frequently used for cauterizing and oper ating lamps.

Prices on application.



No. 23084.



No. 3680 with No. 3681.



No. 3446.



No. 9061.

	The ()ueen	Decad	e Testin	g Set	
Code Word	List N	0.			1	Price List.
Silverbush	23084			ade" Portab		Each.
Silverfur	23085	T 465,	Queen "Dec	ade" Portab vanometer a	le Testing	•
ians a The omete hogai	s prefer Wheats er and Ba ny box w	the "Dec stone Br ttery are ith carry	cade" plan ridge, Rheo e contained	mended to s of resistance stat, D'Arso in a finely Outside dim 00 ohms.	coils. nval Galva polished m	u- a-
	"Acn	ie" P	Portable	Testing	g Set.	
D'Ars	onval G	alvanom	neter, Batte	ntstone Bridg ry, and Dor outside dime	ible Conta	ct

x 5 ins., and weighing only seven pounds. The bridge coils are six in number and admit of a ratio of one to one thousand on either arm.

The Rheostat has a total resistance of 11,110 ohms, hence the possible range of measurement is from .001 to 11,110,000

Measurements can be made under all conditions of practical work close to dynamos, in large factories or on shipboard.

Frances	3680	T 460, "Acme" Portable Testing Set	100.00
Francis	3681	T 461, Leather Carrying Case, with shoulder	
		strap	5.00
Frederick	3682	T 462, Flexible Contact Clutches for heavy	
		conductors	5.00
Detection	3700	T 963, Tripod, with Clamp, to support in	
		street work	7.50

Weston Circuit Tester and Ground Detector.

The Weston Ground Detector is an instrument for simply and quickly indicating the existence of grounds, and also for showing the insulation resistance of the circuits from hour to hour and day to day, and thus indicating any changes that may take place in the insulation resistance of the circuits.

Coolly	3446	Weston Circuit Tester and Ground Detector, for two-wire circuits, including computing
		device for quickly determining the insula-
		tion resistance without necessity of calcu-
		lation

Weston Portable Galvanometer.

Negative	9.061	No. 1, giving 1 millimeter scale deflection	
		with 1 volt through 500,000 ohms, resist-	
		ance 250 ohms	35.00
Neglect	9063	Leather Carrying Case for same, velvet lined,	
		with handle and shoulder strap, lock and	

65.00

10 amperes

2 to



UEEH-WIRT PORTABLE METER

Queen-Wirt Ammeters and Voltmeters.

Queen-Wirt Meters are calibrated for either direct or alternating current circuits. When ordering instruments for alternating current, state the product of the number of pole of the generator by the number of revolutions

All instruments are Dead-Beat and this enables them . to follow continual changes in the current or voltage without constant swinging. The circuit may be rapidly made or broken without driving the pointer violently to one side and probably injuring the instrument or throwing it out of calibration.

The front is of bronze with bright letters and scroll raised on a dead black ground.

Voltmeters for constant potential circuits have their scale divisions wider at the normal running point. Scales on other meters are nearly uniform.

Direct.

22.00

Alternating.

\$24.00

24.00

24.00 24.00 24.00 26.00 26.00 28.00 28.00 28.00 30.00 30.00 30.00 30.00 26.00 26.00 26.00 26.00 26.00 28.00 30.00

List Price Eac \$22.00

Ammeters.

3 to		9U.	**																												22.00	
5 to		60	66			i					į.	ŀ			į.					ı											22.00	
8 to	7	5	66			Û				Ĺ	ì				Û	ì							0	ì							22.00	
10 to		00	66																												22.00	
12 to	15	25	66																												24.00	
15 to			66																												24.00	
20 to			.66																												26.00	
25 to			44																												26:00	
30 to			66																												26.00	
40 to			66																												28.00	
50 to			16																												28.00	
60 to			66																												28.00	
100 to			***																												28.00	
100 10	100					٠	٠			٠					٠				٠	٠				٠			٠				20.00	
3													١	V	0	lt	г	n	e	te	er	S										
2 to	15	volts																													24.00	
3 to	25	66				ì																									24.00	
8 to	75	66																													24.00	
80 to		46																													24.00	
15 to		66																													24.00	
30 to		44																													26.00	
60 to		66																													28.00	
00 00	00,0					ì					ľ				ì				•	•				ľ	•		ľ	•		•	20.00	
									-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-					
					P	•)	r	t	ä	ıl	b	1	e		I	ı	1	s	t	t	١.	1	r	n	E	21	1	t	s.		
			m									~ .		-			_	,		. 1								. 1	,	****	Lab la a	-1
\																															ighing	

hont three pounds each and measuring 6½ x 6½ x 3 inches over all. The cases are of mahogany. The instruments are dead-beat,

In ordering Portable Meters for alternate current circuits follow previous instructions given for switchboard meters

Ammeters.	
2 to 15 amperes. 10 to 100 " 15 to 150 "	30.00 32.00
Voltmeters.	
15 to 150 volts	, 32.00 34.00
Leather carrying case with shoulder-strap for or Ammeter.	

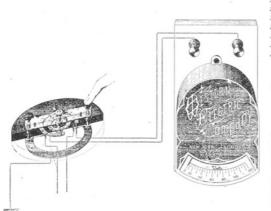
The prices on double instruments are governed by the combination selected and will be furnished on application,

No. 5720.

Voltmeter Switches.

Western Electric Switch.

This Switch is used for connecting a voltmeter across the mains of any number of dynamos or circuits without danger of reversing the polarity through the instrument. It is also provided with a ground test for each side of the different circuits, which measures with the voltmeter the number of volfs lost to ground by simply pressing one of the battons, from which reading the actual resistance in ohms to ground of the circuit may be determined. Switches of this design are made for any number of circuits or dynamos lettered and numbered as desired.



Code Word.	List No.				List Price
Simiou	23098	4	Point,	each	\$13.00
Simitar	23099	6	66	44	14.50
Simmer	23100	8	66	66	16.00
Simnel	23101	10	66	44	. 18.00
Simoniae	23102	12	64,	44	. 20.00
Simonist	23103	14	44	66	24.00
Tullia	8720	16	66	66	30.00

Diagram of Connections for a Western Electric Voltmeter Switch,

The size of the hard rubber base for a 2-point Voltmeter Switch is 2×5 ins. For a 4 to 14-point the base is round and is $6\frac{1}{4}$ in. diameter. For a 16 to 24-point switch it is $10\frac{1}{4}$ in. diameter.

A similar instrument is also made for connecting polarity indicators, calibrating ammeters or other series instruments in arc circuits.



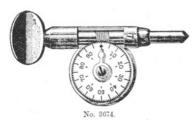
Speed Indicators.

The "Lightning" Speed Indicator.

It registers as high as 1,000, as seen by the cut. The body constitutes the handle. Has a rubber, tip on the spindle, and the face covered with a watch crystal. Will stand over 15,000 rotations per minute.

n 3673 Each..... 3.00

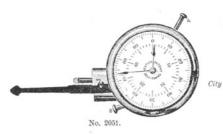
Cited



Speed Indicators - (Continued).

Universal Speed Indicator.

Code Word.	List No.	Lis	t Price.
Citizen	3674	Single Indicator, each	\$1.00



Heath Speed Indicator.



Standard Portable Tachometer.

The scales on the dial are graduated as follows: 40 to 200, 120 to 600, and 600 to 3,000, which gives a maximum range of 40 to 3,000 turns per minute. Thus it is possible to measure directly both high and low speeds with the same instrument.

2050 Standard Portable Tachometer, range 40 to 3 000 revolutions, each 60.00

FIXTURES.

Bracket Tubes.

	-			Diacket Tubes.	
	A CONTRACTOR OF THE PARTY OF TH	Code Word.	List No.		List Price. Per 100.
No. 21895.	No. 21899.	Shore	21895	4 inch	
1101 210101	210. 21000.	Shineer	21896	6 "	
		Showery	21897	8 "	
9	A STATE OF THE STA	Shred	21898	10 "	. 23.00
No. 21900.	No. 21902.	Shrew	21899	45 degree rigid, ball_joint	. 17.00
		Shread	21900	6 inch	26.00
9		Shrick	21901	10 "	
No. 21903.	No. 21905.		21501		33.00
10.21103.	No. 21905.	Shrill	21902	Curve Nipple	. 10.00
)		Shrine	21903	6 inch	36.00
No. 21906.	No. 21910.	Shrink	21904	10 "	
		~911111	21001		43.00
		Shrinkage	21905	Extends 8 inches	. 35.00
1 7		Shrinker	21906	4 inches	14.00
		Shrinkingly		6 "	
ll .		Shrite	21908	8 " ,	20.00
No. 21914.	No. 21915.	Shricately	21909	10 "	23.00
				103 10	
		Shrice	21910	4 inch	
*2.))		Shrivet Shriver	21911	6 " 8 "	
//	6	Shriver Shriving	21912		
	0	Surreing	21913	10 "	23.00
	0	Shroff	21914	Extends 3¼ inches	30.00
No. 21916.	No. 21917.	Shroffage	21915	90 degree Bracket	16.00
		Shrood	21916	Turkey-neck Bracket	35.00
		Shroud	21917	Snake Bracket	
Comp.		Shrouding	21918	Swan Bracket	
		Shroudless	21919	Duck-neck Bracket	35.00
N 91018	No. 21919.	Nos. 218	899, 2190	2 and 21915 are of the same size tubing as to other brackets listed,	he
No. 21918.	110. 21919.			other brackets fister,	



Electric Brackets.

Screw Bracket.

Code Word.	List No.	Lis	t Price.
Shroudplate	21920	Rough brass, per 100	11.00
		Polished brass, lacquered, per 100	

This is a short screw bracket, very strong, makes a convenient bracket for window lighting, border or ceiling work. Extends from wall one and five-eights inches.



Partition Bracket.

For	attaching	to	back	of	partitions,	etc.,	includes
flange.	The soci	cet,	shade	and	shade-hold	er are	extra.

Shrow 21922 Partition Bracket, polished brass, each....... .70



Shelf Bracket,

With wall plate, has six inch drop to socket nozzle. The socket, shade and shade holder are extra.



Special Shelf Bracket.

For attaching underneath a shelf, furnished with wall plate. Socket, shade and shade holder extra.



Almond Flexible Bracket.

These prices include bracket only



Code Word	List No.																	I	ist Price. Each.
Shrow	21925	6	inches	long										 		,	 		\$0.54
Shrowd	21926	9	**	61					. ,										.60
Shrub	21927	12	66	44															.75
Shrubberg	21928	15	66	**															.90
Shrubbiness	21929	18	46	**									,		. ,				1.11
Shrubby	21930	24	**	**				,			 ,								1 50

No. 21931.



No. 21932.

Electric Wall Brackets.

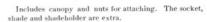
Shrubless	21931	1	light,	with canopy and	l crowfoot	 2.00
Shruff	21932	2	44	44	44	 3.00

Socket, shade and shade holder are extra.



No. 21933.

Switchboard Bracket.





Shrug Shrunken

21933	1	light	1.25
21024	0	"	1.75

No. 21934.



Hall Bracket.

Including canopy and crowfoot. Socket, shade and shadeholder are extra.

No. 21935.



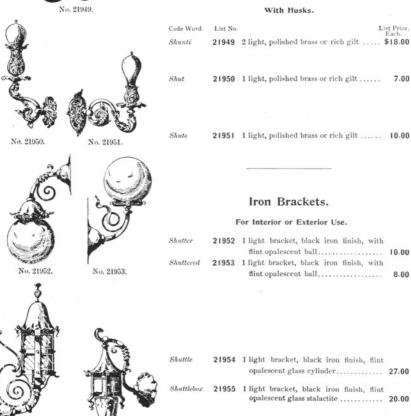
No. 21954.

No. 21955.

Fixtures—(Continued.)

Ornamental Brackets.

Brass Brackets.





Swing Brackets.

Shades, shade holders and sockets are not included in the price of the brackets. Canopy and crow foot are furnished with each bracket. Brackets are polished brass.

No. 21942

Code Word, List No. Shuffleboard 21941 1 light Electric Swing Bracket...... \$4.00

21942 1 light single swing, extends 12 inches... 1.20 21943 1 light double swing, extends 24 inches. 1.70

No. 21944.

21944 1 light single swing, extends 12 inches... 1.20 21945 1 light double swing, extends 24 inches.. 2.40

Shun

21946 1 light Electric single swing bracket, extends 12 inches...... 1.50

21947 1 light Electric double swing bracket, extends 24 inches 3.00

No. 21946.



Two-Light Electric Bracket.

Two arms, single swing, spread 24 inches.

21948 2 light Electric bracket..... 5.50



Electric Brackets.

Sockets, shades and shadeholders are extra:

Code Word. List No. List Price, Each.

Shurk 21936 1 light Bracket with wall plate... \$1.80
Extends 10 inches.



Two-Light Wall Brackets.

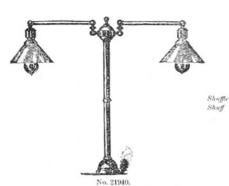
Including canopy and crowfoot,

Shudder 21937 2-light bracket, polished brass.... 3.50



Shude

21938 2-light bracket, polished brass.... 2.50



Swing Standards.

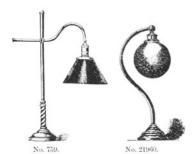
Standards are furnished without shade, shadeholder or socket.

21939 1-light, single swing standard 3.25 21940 2-light, " " " 4.75

The arms extend 12 inches.

This fixture is well adapted for banks and counting houses.

The Standards will be furnished wired for 25 cents extra for each arm,



Desk Portables.

Code Word.	List No.		List Price	
Fanny	759	Extension	Portable \$4.00)
	Height,	24 inches.	Extension 12 inches.	

The arm can be moved up and down, in and out, and from side to side.



Plain Standard Portable.

Brass finish. Height, 24 inches.

Shyly	21960	Portable,	only,	without	shad	e	3.00
Shynėss	21961	66	66	44	64		3.00
Syn	21962	Portable,	only.				1.50

Flexible Portable.



Adjustable Portable and Bracket.

Is furnished with a key switch at the base, and has an adjustable attachment at the top so that the socket may be moved from side to side.

21963 Complete, as shown in cut...... 10.00



No. 2386.

Fixtures.—(Continued.)

Combined Portable and Bracket.

This is an ornamental and convenient desk lamp. It is furnished complete with six feet of cotton covered lamp cord, a special Bryant attachment plug, a socket for a T.-H. or Westinghouse base lamp, and a paper or celluloid shade. The Portable is of polished brass and, including the lamp, stands about 13 inches

When used as a bracket it extends about 8 inches.

Code Word.	List No.								t Price. Each.
Equalness	2371	Polished Bra	ass, co	mple	te.				\$5.00
Equation	2372	Old Copper,		66					6.00
Equinox	2373	Oxidized Sil	ver	66					7.00
Equity	2374	Shade only,	Green	1					1.00
Equipulent	2375	44	Red			 			1.00
Equirocal	2376	44	Blue						1.00
Eradicate	2377	44	Whit	e					1.00
Eradicated.	2378	44	Yello	w		 			1.00
Eradicating	2379	44	Pink						1.00

The Kinsman Desk Light.

This Desk Light is clamped on the desk as shown, without marring or interfering with the desk in any way; has an adjustable arm by which the cylinder can be pulled back or drawn forward as desired The inner glass cylinder is so arranged that it will give a bright light, or by a slight touch it can be modified to suit.

Errand	2386	Each, nickel plated	6.00
side-sad	22044	Each; dark Green, enamel	3.75

Kinsman Portable.

Side-man	22045	Kinsman	No.	1,	Portable,	nick	el	8.00
Side-table	22046	44	No.	1,	66	dark	Green,	
		ename	1					5.00
Side-taking	22047	Kinsman	No.	2,	Portable,	nicke	el	7.00

Polished brass can be furnished instead of nickel if specified.

Specify style of socket when ordering.

Ornamental Electric Portables.

One light, finished in rich gilt or polished brass.

Shuttlerace	21958	Portable,	without shade	6.70
Shy-	21959	44	with opal shade	17.00



No. 21959.



No. 21964

No. 21965.

Ornamental Ceiling Fixtures.

Husks.

Code Word	List No.						List Price	ì.
Sialogue	21964	1	light,	polished	brass or	rich gilt	Each \$3.5	
Sigmese	21965	1	66	66	44	"	3.5	a





Sib	21966	11	ight,	polished	brass	 4.50
Siberian	21967	1	64	66	44	 11.25



Ceiling Globes and Balls.

21968 1 light, Black iron, Flint Opalescent Globe, 17.00 Sibilance 21969 1 " Polished brass," " Ball, 6.00



Sibilant 21970 1 light, Polished Brass, Flint Opalescent Ball, 10.00 Sibilation 21971 1 " " Inside Roughed Ball, 17.00



Ornamental Ceiling Clusters.

With Husks.





No. 21975.

With Husks.

Sibilous	21974	3	light,	Polished	Brass or	Rich Gilt	 12.00
Sibyl	21975	4	66	66	44	44	 13.40
Sibylline	21976	5	66	66	14.	+6	 14.70

A Flint Opalescent Ball is included with Fixtures Nos. 21977, 21975 and 21976.



Without Husks.

Sibylist	21977	2	light,	Rich Gilt or	Polished	Bras	s	6.35
Sic	21978	3	44	61	44	**		7.70
Sicamore	21979	4	44	44	44	44		9.00

Shades for Fixtures Nos. 21977, 21978 and 21979 are extra.



With Husks.

Sicca	21980	6	light,	Polished	Brass	or Rich Gilt	47.00
Sircute	21981	8	"	44	44	"	60.00
Siccution	21982	12	66	**	44	41	74.00



With Husks.

Siccutive	21983	3	light,	Polished	Brass or	Rich Gilt	 30.00
Sicrific	21984	4	66	44	46	- "	 35.00
Siccety	21985	5	66	44	44	"	 43.50
Sice'	21986	6	*6	64	44	46	50.00

No. 21984.

Code Word. List No.

Sickishly

Sickliness

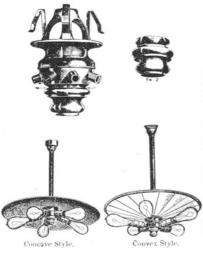
Sicklist

Sickly

22010

22011 6

22012



Fixtures—(Continued.)

W. E. Clusters.

These clusters, owing to their construction, are a handy and neat device. Fig. 2 is a detachable base, so that the cluster is open at both ends. The piece shown at the top of the cluster is made for a shade holder, and will hold the shade firmly and rigidly to its proper place.

These clusters are furnished in polished brass. An additional charge of 20 cents will be made for Nickel or Baure Barf finish. The following prices are for the Cluster Balls only. Shades, pendants, canopies and crowfoots extra.

Concave Style. 22001 3 light Cluster.....

List Price.

1.45 1.50

1.62

Sickishness	22002	4	**	44		 	1.18
Siekle	22003	5	44	44		 	1.24
Sickled	22004	6	64	44		 	1.28
Sickleman	22005	8	66	44		 	1.40
Sickler	22006	10	66	16		 	1.80
Sickless	22007	12	44	44		 	2.70
			Conve	St	yle.		
Sicklewort	22008	3	light C	luste	r		1.35
Sicklied	22009	4	66	44		 	1.40



Dale Detachable Ceiling Cluster with Switch.

Cluster Body is detachable, so that the porcelain reflector may be put up or removed without interfering with the wiring or taking down the fixture.

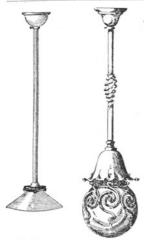
A switch is placed in the bottom of the cluster body to turn off and on the lights, thus avoiding running wires from the ceiling outlet to the side wall.

Wired complete, excepting shade and sockets.

- A Switch to turn off and on lights. E Holder for Reflector.
- F Brass Stem. B Cluster Body. G Canopy covering Crowfoot.
- C Connecting Plug. D Receptacle for Plug C.

Sickeringly	21996	2 ligh	
Sicker	21997	3 "	

Sickeringly																						4
Sicker	21997																					4
Sickerly	21998	4	٠,	,				 			 			,					. ,			4
Sickerness	21999	5	**		,																	5
Sickish	22000	6	60					 					٠							٠	٠	5



Fixtures.—(Continued.)

Electric Pendants.

Plain straight Pendants made of polished brass, with crowfoot and canopy, as per the following list:

Sockets, shades and shade holder extra.

K. W. bracket cut-out, which can be used instead of canopy and crowfoot will be furnished if specified.

Code Word.	List No.															1	Price.
Sich	21987	Pendant	1	foot	long							4					\$.60
Sicilian	21988	44	2		64	,											.90
Sirk	21989	44	3		44												1.20
Su	21990	66	4		66												1.50
Sickboy	21991	66	5		44												1.80
Sirkbrd	21992	44	6		44												2.10

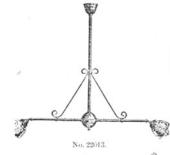
No. 21989.

No. 21994.

Ornamental Pendants.

Finished in black fron, and includes canopy, crowfoot and flint opalescent ball. An extra charge is made for the socket.

Sickberth	21993	Pendant	2	feet long							 		 	30.00
Sickbrained	21994	44	3	61									 	31.00
Sicken	21995	44	4	41									 	32.00

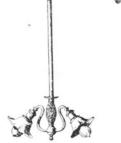


Hall Fixtures, Plain.

Polished Brass. Crowfoot and canopy furnished with fixture.

Shade, shadeholder and socket extra.

Code Word	List No.																		1	L	ist Price Each.	١.
Sickness	22013	2	light					,								 						
Sickroom	22014	3	44																		7.2	5
Siele	22015	4	44														,				9.00	0



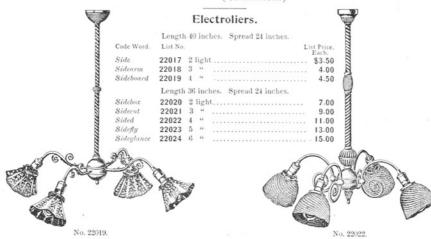
No. 22016.

Bed Room Fixtures, Ornamental.

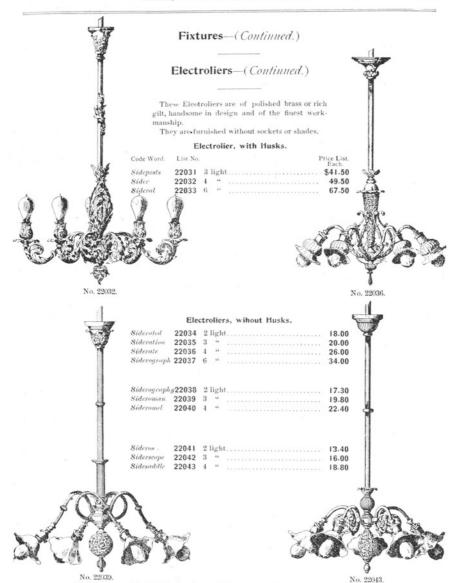
Polished brass, rich gilt, including canopy and crow, foot.

Sockets, shades and shadeholders extra.

Fixtures—(Continucd.)







We are prepared to furnish other designs in Fixtures than those shown in this Catalogue,



Clusters.

Cluster Balls.

Code Word.	List No.															I.	į	st Price	e.
Alabaster	3489	2	Light,	each		 						 						.4	0
Alacrity	3490																		
Alarm	3491	4	54	66														.6	0
Alas	3492	5		44															0
Albietros	3493	6	**	66.														.8	0

No. 3491.



Box Clusters.

Erecting'	6786	Standard	Box	Cluster,	Brass,	2	light,	each	1	1.00
Ermine	6787	46	66	44	44	3	#4	44		1.10
Erode	6788	44	"	-44	66	4	66	44		1.25
Eroded	6789	- 44	**	44	'66	5	46	44		1.40
Eroding	6790	44	44	44	66	6	46	66		1.50
Erosion	6791	64	**	44	66	8	14	66		1.75

No. 6790.



Separable Box Clusters.

Silvern	23088	2	Light,	each			,							,		. ,			
Silvery ,	23089	3.	44	44								 							. ,
Sima	23090	4	44	44															ď.
Simagre	23091	5	66	44									×					٠.	
Simar	23092	6	66	66				6			, m						٠,		
Simare	23093	8	66	66								 . ,							



No. 23092.

Separable Ball Cluster.

Diameter, 3 inches.

Bottom ornament is removable, and may be replaced by a nipple, so that another light may be added. We furnish an extra nipple for this purpose.

Landlord	613	2	Light,	each		ċ.				 	. ,										
Landman	614	3	66	66				 	00	 											
Landmark	615	4	66	44						 						,					
Landroll	616	5	66	66	Ċ					 											. !
Landscape	617	6	44	*4									,			. ,					. :
Landslide	618	7	44	.4		 											. ,				. :
Landsman	619	8	. 66	64				 				. ,					,				. :
Landspring	620	9	66	66													,				. 2
Landward	621	10	64	44						 ,											. :
Lane	622	11	66	66																	. 3
Languige	623	12	66	44												,	,		,		3
Languid	624	14	44	66										 							4
Languidly	625	16	44	44			è					,	,	 . ,				,			•



Cluster Fixture Complete.

Prices given are for stem up to 12 inches in length. Prices for extra lengthening, 40 cents per foot list.

Code Word.	List No.															1	Pr	ic
Lagger	600	2	Light,	eacl	h.													
Lagging	601	3	44	64														
Lair	602	4	4.6	44														
Laity	603	5	65	44														
Lumb	604	6	44	44														
Lambkin	605	7	66	44														
Lamblike	606	8	44	46														
Lument	607	9	66	66														
Lamentable	608	10	44	44														
Lamentably	609	.11	44	66								 						
Lamentation	610	.12	44	44														
Lamented	611	14	64	4.6														
Lamenting	612	16	66	"														

Bottom ornament on cluster is detachable. We furnish with each fixture a brass nipple to take the place of the ornament, so that another light may be added on the bot-

Bracket Cut=Outs.

Both the K. W. and B. E. Rosettes are made in the form of Bracket Cut-Outs for fixture work, and are adapted for use with any standard bracket made from § inch brass tubing. Both styles of caps are interchangeable, and will fit any of their respective bases.

The cut shows a very neat Fixture, made of No. 873 Bracket Cut-Out, No. 9392 Canopy and No. 21910 tube. It can also be used without the Canopy.

K. W. Bracket Cut-Out. Patented July 16, 1889, and July 1, 1890. Type "A," with Brass Face Plates.

Code Word.	List No.	B. E. List No.	List	Price.
Erratic	873	873	For Concealed Work \$	0.32
Accrescent	25491	1176	For Cleat Work	.32
Accretion-	25492	1177	Square Base for Moulding Work.	,32
	Type	"B,"	with Brass Thimble.	
Vagrancy	23094	1073	For Concealed Work	.24
Accrete.	25493	1178	For Cleat Work	.24
Accreting	25404	1170	Sauara Pasa for Moulding Work	24

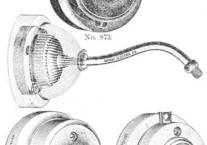
B. E. Bracket Cut=Outs.

Patented Septer	nber 13, 1887; April 30, 1889, and April 23, 1895.	
Accroach 25496 .	1130 For Cleat Work:	.20 .20 .20

Wall Plates or Electric Bracket Backs.

Also made with Male Thread for Direct Attachment to Socket.

Erasement	2382	21	nch,	Female	Thread,	each						.65
Erasing	2383	2	44	Male	64	66						.65
Erusure	2384	24	64	Female	44							.75
Erect	2385	24	44	Male	44							.75
Erase	2380	3	44	Female	66	61						.50
Erased	2381	3	44,	Male	+4							.50





No. 23094.

No. 25496



No. 2382.

Turned Brass Fittings.



Polished and Lacquered.

Nipple. (Brass Tubing Size.)

Code Word.	List No.		List Price Per 100.
Sinewed	23135	g x g	



Secret Nozzle.

Sinewous 23	136	brass to burner size	15.00
-------------	-----	----------------------	-------



Acorn Cap. (Iron Pipe Sizes.)

Sincey	23137	1	incl	1,							 				٠.	. ,		15.00
Sinful	23138	4	16														 	15.00
Sing	23139	3	66															15.00



Straight Nozzle. (Brass Tubing Sizes.)

Singe	23140	₫ x ₫	6.00
Singer	23141	7 x 3	10.00
Single	23142	½ x ¾	10.00
Singlin	23143	§ x §	12.50



Elbow Nozzle. (Brass Tubing Sizes.)

Single	23144	3 x 3	12.50
Singly	23145	7 x 3	12.50
Singsong	23146	½ x ¾	12.50



No. 23147.

Brass Bushing. (Iron Pipe Sizes.)

Singstor	23147	1	X	18												÷				 		5.00
Singular	23148																					
Singult	23149																					
Sinical	23150	3	х	1							 									 ī		15.65
Sinister	23151	1	x	9														ı			į.	24.35







Split Canopy

Kerosene Lamp Attachment.

Code Word.	List No.		List Price
Erected	8882	Plain, each	\$0.70
Eminence	8883	Insulated, each	70

Canopies.

We carry in stock a large variety of Fixture Canopies, finished in polished brass. Other finishes will be furnished when specified.

Split Canopies.

Canopies of any style illustrated in this catalogue will be furnished split, at double the printed list prices, subject to regular discounts.

Extension Ring.

For Canopies 4 incheş in diameter.



No. 23095.

No. 9388.

Simblat	23095	1 inch	deep													.30
Simia	23096	11	46						 							.35
Simile	23097	2	66				 			,						-40

Extension rings of greater depth or for canopies larger in diameter made to order.

Canopies.



No. 9386.

Nemesis	9388	ĝ	inch,	Ring an	d Set Screw,	each	
Nerve	9293	4	"	-66	66	44	
Nerceless	9389	7	44	66	46	66	
Nercine	9391	1	+6	66	41	44	
Nercous	9386	- 6	inch,	Ring an	d Set Screw,	each	
Nervously	9107	3		46	44	44	
Nest	9328	Z	60	66	44	66	
Nestle	9387	1	46	66	66	44	

Polished and Lacquered, 50 per cent. extra.

Neuter

Nicely Nicety Niche Nick



Canopies—(Continued).

Code Word.	List No.								L	st Price.
Netting	9392	4	inch,	Ring	and Set Screw,	eacl	1	 		\$0.24
Nettle	9393	8	- 61	**	-1	11				.24
Neural	9394	7	44	64	44	**		 		.26
Neuralgia	9395	1	11	44	64	66		 		.26



Neutral	9634	£	11	4.6	,,,,	"	.28
Neutralize	9683	78	1.	**	**	"	.30
Newt	9383 ‡	1	**	**	**		.30

9290 & inch, Ring and Set Screw, each.....



Next	9568	ê	inch	, Ring an	d Set Screv	v, each	.24
Nibble	9569	2		44	+4		.24
Nibbler	9570	7	1.6	44	**		.26
Nice	9571	1	**	44	**	"	.26



No. 9580,

9530	5	inch,	Ring and	Set Screw,	each	١.,					.26
9531	ŝ	4.4	**	**	**						.26
9532	7	- 11	*	f+	**						.28
9533	1	**		**	**						.28

Polished and Lacquered, 50% extra.



Canopies—(Continued)

Code Word.	List No.						Li	st Price.
Nickel	9537	985	inch,	Ring an	d Set Screw,	each		\$0.28
Nicknacks	9538	4	44		**	**		.28
Nickname	9539	148	11		4.4	**		.30
Nictate	9540	1	**	**	**	**		.30



Nictitate	9542	å	inch	Ring ar	nd Set Screv	v, eac	h	.30
Nictation	9543	ŧ	**	**		**		.30
Nictitation	9544	2	**	**	**	4.6		.32
Nidification	9545	1	**	**	44	**		.32



Niece	9547	5	inch,	Ring an	d Set Screv	w, each	.3
Niggard	9548	14	**	**	**		.3
Niggardly	9549	ž	**	**	**		.3
Nigh	9550	1	**	4,4	**	·	.3



Canopies—(Continued).

Code Word.	List No.						Li	st Price
Nighness	9557	8	inch,	Ring	and Set Screw,	each		\$0.42
Night	9558	2		**	**	**		.42
Night cap	9559	7	16	**	**	"	· · · · · · · · · · · · · · · · · · ·	.44
Nightfall	9560	1	ň	61	**	**		.44



No. 9552.

Nighthawk	9552	å	inch,	Ring an	d Set Scre	w, eacl	h	.38
Nightingale	9553	1			-4	**		.38
Nightly	9554	ž	**	**	44	**		.40
Wahtman	0555	9	**	**	**	-4		40

.46

.48

.48



Nightshade

Sunbeam Incandescent Lamps.





Hair Pin Filament.



Coiled Filament.

We are the exclusive agents for the Sunbeam Incandescent Lamp. This lamp was selected by us after very careful investigation on account of its high quality. The Sunbeam Lamp was first made in 1899, and during that whole period has had a most excellent reputation. It is a low-priced lamp if one is not blind to the question of quality. No better lamp can be purchased at the same price.

The frosted lamps have a smooth, satin finish.

The superficially colored (dipped) lamps can hardly be distinguished from the natural colored glass, and for most purposes are quite equal to them.

Particular attention is called to the 2 and 4 C. P. lamps for sign and decorative work, and which are also useful in residence lighting on account of the small amount of energy consumed. These lamps can be connected in multiple on the regular lighting circuits.

Special prices will be quoted according to quantity.

Pear Shape, Hair Pin Filament.

Furnished regularly for voltages from 45 to 90. Will be furnished for any voltage from 90 to 130 when specified.

Code Word.	List No.					Price Fa	List.
Sideview	22048	6	c. p.,	25	watts	\$1	
Sidewalk	22049	8	"	32	66		.40
Sideways	22050	10	64	37	.88		.40
Sidewind	22051	16	"	56	46	(long life)	.40
Sidewise	22052	16	"	50		(high efficiency)	.40
Siding	22053	16	36	62		(very long life)	.40
Sidle	22054	20	66	62			.40
Siege	22055	25	"	75	66		.45
Sienite	22056	32	66	92	66		.60
Sienitic	22057	50	44]	145	44		1.00
	Furni	she	ed in	clea	ar gla	ss, frosted, opal, all natural col-	

ored glass and superficially colored.

Note.—Specify the base and voltage.

Pear Shape, Coiled Filament.

Furnished for any voltage from 90 to 120.

Sienna	22058	8 c	. p	., 32	watts	s.,																	40
Siennese	22059			37	66																		40
Sierra	22060	16	66	56	44	(10	on	g	li	fe	:)						 				į.		40
Siesta	22061	16	66	50	66	(h	ig	h	6	ß	ic	ie	n	C?	y)								40
Sieur	22062	16	66	62	44	(v	er	y	k	n	g	1	ife	e)	١,		 						40
Sieve	22063	20	66	62	66																		40
Sift	22064	25	66	75	66																		45
Sifter	22065	32	66	92	46																		60
	Forn	ished	in	clea																			-0

ored glass and superficially colored.

Note.—Specify the base and voltage.





Electric Street Railway Lamp.



Incandescent Lamps--(Continued.)

High Voltage Lamp.

Voltage 200 to 250.

Electric Street Railway Lamp.

Has a tough filament and will stand a variation in voltage from 105 to 120. Will have a long life and excellent maintenance of candle power throughout its entire life. Electric cars will be found better lighted with this lamp than where others are used.

Furnished in clear glass, frosted, opal, all natural colored glass and superficially colored.

Specify base and voltage.

Decorative Lamp, Coiled Filament.

This lamp is offered for use in those places where a strong light is not required. The principal use for this lamp is in sign and decorative lighting; also in residence lighting.

The bases fit the standard sockets and the lamps are to be connected in multiple. The saving in energy over the lamp ordinarily used in sign work will amount to several times the cost of the lamp. For example: the saving in energy during its life of a 4 c. p. lamp over a 16 c. p. lamp will amount to \$2.00 or more.

Sigh Sighborn Sigher Sighingly

22068	2	e. p.,	10	watts,	voltage	from	50	to	60	-60
22069	4	+4	20	66	+6	44	50	to	120	.55
22070	10	11	37	66	64	66	50	to	120	.50
22071	16	44	56	66	66	44	50	to	120	.50

Furnished in clear glass, frosted and superficially colored.

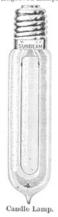
Specify base and voltage.



French Etched Lamp.



Engraved Lamp.



Incandescent Lamps—(Continued.)

Fancy Lamps, French Etched.

For residences, clubs, hotels and such other places where handsome fixtures are used. Many of the shades now used with incandescent lamps will exclude from 30 to 50 per cent. of the light. These etched globes will pass all but 5 per cent of the light. The French etched lamp is artistic, surpassing in beauty anything heretofore produced.

We have ten different designs.

Add to the list price of regular lamps, 30 cents each.

Fancy Lamps, Engraved.

For residences, show windows, and other places where it is desired to have something more fancy than the plain lamp, our engraved lamps find favor.

We have ten different designs.

Add to the list price of regular lamps 15 cents each.

It is important that the style of base should be specified and the voltage given.

Candle Lamps.

Furnished in any voltage from 48 to 120. Furnished in clear glass, frosted, opal and superficially colored.

Code Word.	List No.											1		Price
Sight Sighted	22072													.60
ыдшей	22073	Speci								,			 ٠	.60

Incandescent Lamps—(Continued.)



One of the recent developments in Incandescent Lamps is a base made entirely from porcelain, as shown by the illustration. It is artistic in finish, reasonable in price, and of high insulation.

On fine fixtures it adds greatly to the general effect, and always presents a neat appearance, as it can be cleaned whenever the lamp itself is polished.

An advantage claimed for a base of this description is that no metal extends beyond the edge of the socket, and consequently there is no danger of accidental contact with the lamp base. This is of importance where lamps are used in damp places as moisture may make a contact between the outer shell of the socket and the lamp base, thus causing a slight ground on the line.

This porcelain base is specially adapted for marine work, breweries, stock yards, refrigerators, basements, mines, or any other place where considerable moisture exists or gases and acid fumes of an injurious nature prevail. Moisture and gas attack metal and cause it to corrode, and in consequence in time to deteriorate. A hard, vitreous glazed porcelain, such as these bases are made of, is much less liable to the action of the atmosphere and noxious gases and does not cause any leak of current due to the accumulation of moisture.

The high degree of insulation makes it very desirable for out of door work, for 220 volt systems and street railway work.

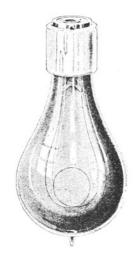
These Bases are made for T. H. Base Lamps only.

Our standard lamps are all supplied with regular metal bases, as illustrated on other pages of this catalogue.

The Porcelain Base is furnished only when specified in the order.

We do not sell the Bases separately but only on the

Prices quoted upon application for lamps of standard sizes with porcelain bases.

























Incandescent Lamps—(Continued.)

Bases.

Lamps are furnished with bases suitable for all sockets, as shown below:

Packages.

All lamps furnished in standard packages containing the following quantities: 12, 25, 50, 400, 150, 200, 250. A full barrel will contain 250 16 c. p.; 200 25 c. p.; 175

Packages will be charged at cost, or as follows: 25 lamps or less, one box, 15c.

Over 25 to 50 lamps, two boxes, 30c.

More than 50 lamps put in barrels are charged at 35c. for each barrel.

Lamps in heavy pasteboard box, without the separating partitions, no charge for package; shipments in this shape must be entirely at customer's risk of breakage.

The weights, including packages, of lamps from 6 to 20 c. p., are approximately as follows: 50 lamps, 28 lbs.: 100 lamps, 42 lbs., 200 lamps, 55 lbs.; 250 lamps, 60 lbs.

Miniature Incandescent Lamps.



The range of our Lamps is: From 1/4 to 8 candle power, from 1 to 3 watts per c. p., from 2 to 60 volts, from .07 to 2.0 amperes.

They can be lit in series or in multiple, from batteries or on dynamo circuits. Following is an abridged table of c, p. voltage and current of our Lamps:

½ c. p. 2	volts	, 1.5 a	mp.	1 c. p. 4	volts,	.7 a	mp.	3 c. p. 6	volts,	1.2 a	mp.
3	**	.8	*6	6	44	.4	64	4 c. p. 8	44	1.0	64
4	66	.5	66	8	16	.25	64	15	66	.4	
6	"	.3	66	10	44	.2	66	20	44	.25	66
8	"	.2	66	2 c. p. 4	66	1.5	44	6 c. p. 10	46	.8	44
10	"	.1	16	6	44	.8	0.	25	66	.4	66
20	"	.07	64	8	66	.5	44	8 c. p. 40	66	.4	16 .
1 c. p. 3	44	1.0	"	10	66	.3	44	60	66	.25	44
				20	66	.1	64				

Miniature Incandescent Lamps—(Continued.)





Battery Lamps.

Code Word	List No.					List Price Each.
Sightful	22074	1/2	c. p	., with platinum	loop termin	als \$ 0.75
Sighfuliness	22075	1	44	**	44	
Sightless	22076	2	44	**	**	
Sightlessly	22077	3	44	14	44	
Sightly	22078	4	4.5	44	64	
Sightseeing	22079	6	44	**	**	
Sightseer	22080	1/2	- 44	without platium	m loop term	inals70
Sightshop	22081	1	16	16	66	
Sightsman	22082	2	44	15	**	
Sigel	22083	16	44	pear-lamp		
Siggillative	22084	1	64	**		
Sigla	22085	2	66	44		
Sigma	22086	16	66	grain lamp		
Sigmoid	22087	1	46			1.00
Sigmoidal	22088	1/2	66	pearl lamp		1.25

Mounting on Screw Bases, 10 cents extra.

Note.-All our large sizes of Lamps of every kind, when not mounted on screw bases, are provided with platinum loop terminals, to which copper wires are fused on. This effectively prevents breaking off of wires.



Special Series Lamps.

Mounted on either Edison, T.-H., or Sawyer-Man Standard Bases. 6 to 8 c. p. 90 to 20 volts

		6 to 6 c. p. 20 to 50 voits.	
Sigmoidally	22089	Accumulator Lamp, mounted	1.00
Sigmoiding	22090	Spherical Lamp	1.00
Spe	cify can	dle power when ordering Nos. 22089 and 22090.	

Mounted on Candelabara and Miniature Bases.

		1		
	/		1	
1	ALC: NO.	•		1
1	6	100		1

1/2	to 8	c.	p.		

Sign	22091	1/2	to	4 c.	p., 2	to	2	20	V									
Signal	22092	4	c. p	, 20	volt	8,												
Signalfire	22093	4	66	30	64													
Signalist	22094	6	66"	30	44													
Signality	22095	8	•,4	40	66												. ,	
Signally	22096	9	44	60	66													

With Coiled Carbons.

Signalment	22097	4 to 8 c. p., 15 to 60 volts	.85
Signation	22098	Kinetoscope 20 volt lamp	1.00
Signatory	22099	Stereopticon Lamp, 20 volts, 20 c. p	1.25

Specify candle power and voltage when ordering Nos. 22097, 22098 and 22099.

Mounting on Screw Bases, 10 cents extra.













Miniature Incandescent Lamps—(Continued.)

Candle Lamps.

For Decorative Lighting.

Code Word.	List No.								Price.
Signator	23000	2	c. p.,	10	volts,	without	screw b	ase	\$.70
Signature.	23001	3	**	10	44	66	44		 .80
Signaturist	23002	4	66	20	66	66	66		 .70
Signboard	23003	5	44	30	"	44	44		 .70
Signer	23004	6	44	50	44	44	44		 .70
Signet	23005	8	44	60	64	44	66		 .70
Signeted	23006	2	66	10	66	44	66		.70
Signetring	23007	3	44	10	44	66	44		 .80
Signifer	23008	4	16	20	66	66	44		 .70
Significance	28009	5	66	30	66	66	44		 .70
Significancy	23010	6	44	50	66	66	66		 .70
Significant	23011	8	"	60		44	44		 .70

Any other voltage furnished to suit requirements, Mounting on Screw Bases, 10 cents extra.

Candle Flame Lamps.

Significantly	23012	2	c. p.	, 10	volts	, without	screw base	٥				.70
Significate	23013	3	66	10	66	46	66					.70
Signification	23014	4	66	20	66	46	.4					.70
Significative	23015	5	66	30	66	44	60					.70
Significator	23016	6	46	50	66	66	44					.70
Significavit	23017	8	44	60	44	44	44					.70

Ellipse Lamps.

Signify	23018	2	c. p,,	10	volts	, without sc	rew ba	se	.70
Signior	23019	3	44	10	66	44	44		.70
Signiorize	23020	4	44	20	66	66	66		.70
Signiorship	23021	5	44	30	66	66	44		.70
Signiory	23022	6	66	50	66	66	66		.70
Signmanual	23023	8	+4	60	66	double car	rbon la	mp	1.50

Any other voltage furnished to meet requirements. Mounting on Screw Bases 10 cents extra.

Bend Flame Lamps.

Signor	23024	2	c. p.	, 10	volts,	without so	crew ba	se	.90
Signpost	23025	.3	66	10	66	44	"		.90
Sike .	23026	4	66	20	66	64	44		.90
Siker	23027	5	- 66	30	66	66	44		.90
Sikerness	23028	6	66	50	44	16	44		.90
Sikhs	23029	8	66	60	66	66	64		.90
			_						

Straight Flame Lamps.

Sile	23030	2	c. p.	, 10	volts,	without s	screw ba	se	.80
Silence	23031	3	66	10	66	44	44		.80
Silene	23032	4	66	20	66	66	66		.80
Silent	23033	5	66	30	66	66	44		-80
Silentiary	23034	6	66	50	66	66	66		.80
Silently	23035	8	66	60	"	46	66		.80

Other voltages furnished when specified. Mounting on Screw Bases, as shown in cut, 10 cents extra. List No.





Code Word.

Silhouette Silica

Miniature Incandescent Lamps—(Continued.)

Prism Lamps.

Style No. 23037 is made in sizes ranging from 2 to 8 c. p., and 20 to 60 volts.

Price List.

When ordering specify candle power and voltage.

conc moral	Each.	
Silentness	23036 Not mounted \$0.9	0
Silesia	23037 Mounted	0
	Style No. 23038 is broader and shorter than Style No. 23037. Can be made from ½ to 8 c. p., 2 to 60 volts.	
	Coiled carbon taking the place of straight one for the higher pressures.	
	Specify candle power and voltage when ordering.	
Silesion	23038. Not mounted	0
Silex	23039 Mounted 1.0	0

Silesion	23038.	Not mounted	.90
Silex	23039	Mounted	1.00



No. 22037.



No. 23038.

Lance Tip Lamps.

Voltage same as that of Battery Lamps. Made in sizes from 1/2 to 8 candle power. Specify candle power and voltage when ordering.

23040	Not mounted	.70
23041	Mounted	,80





Corrugated Cylinder Lamps.

From ½ to 8 candle power. 2 to 40 volts. Specify candle power and voltage when ordering.

Silicate	23042	Mounted on screw base	1.00
Silicated	23043	Not mounted	.90

Corrugated Cone Lamps.

From ½ to 8 candle power. The voltage the same as as any other series or battery lamps as required. Specify candle power and voltage when ordering.

Silice	23044	Mounted on screw base	
Siliceous		Not mounted	
Silicious	23046	With straight stem	1.00





Miniature Incandescent Lamps—(Continued.)

Corrugated Cone Lamps—(Continued.)

From 1/2 to 8 candle power. Voltage the same as any other series or battery lamps as required. Specify candle power and voltage when ordering.

Code Word.	List No.		Lis	t Price. Each.
Silicie	23047	Plain platinum wire terminal		\$.90
Silicify	23048	Loop terminals		-90
Silicite	23049	With hooked stem	٠.	1.00



Corrugated Sphere Lamps.

1/2 to 8 candle power. 2 to 40 volts. Specify candle power and voltage when ordering.

23050 Mounted on screw base

23051 Not mounted.....





No. 23052B.

Cone.
Globes striped red, blue and white (natural

Tricolor Lamps.

1/2 to 8 candle power. Voltage up to 60 volts. Specify candle power and voltage when ordering. 23052 Mounted.....



No. 23057.

Silicon Silicule Siliqua

Silicited Silicle

> 23054 With stems.... The stripes are made in two styles as shown in the cuts, style A and style B.

Sphere.

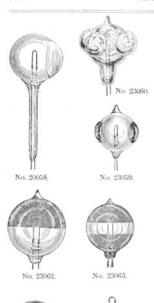
1/2 to 8 candle power. Voltage up to 20 volts. Specify candle power and voltage when ordering.

Silique	23055	Mounted	1.10
Silk	23056	Not mounted	1.00
Silk cotton	23057	With stems	1.10





No. 23056D.



Miniature Incandescent Lamps—(Continued.)

Lens Lamps.

The lenses are fused on the globe during the process of blowing. They are able to quadruple the amount of light emitted by a lamp through concentration into a beam. They can be used in microscopes, models, and for stage effects.

½ to 6 candle power. 2 to 20 volts. No higher voltage is possible on account of the small size of the globe.

Code Word.	List No.												List	Price.
Silken	23058	Single	Lens	Lamp	o			 			 			
Silkgrass	23059		66	*6										1.50
Silkiness.	23060	Three	46	66				 	 		 			2.00
Silkman	23061	Single	.44	44			 ,	 						1.00

Same Lamps with coiled carbons 25 cents extra.

Mounting on Screw Bases or Glass Stems 10 cents extra.

Zone Lamps.

Milk,

These Lamps are especially suitable for such kinds of illumination where movable lights of constantly varying colors are required,

The Bulbs of these Lamps are made of combination of two or three of the following kinds of glass:

Ruoy		colors are		,				
23062	Lamps of	two kinds	of glass.		 	 	 	1.50
23063	44	three. "	66		 		 	2.00

Blue,

Amber.

Thèse Lamps can be furnished mounted for stage dress for 40 cents extra.



Lantern Lamps.

1s to 8 candle power. 2 to 60 volts.

Crystal,

Silkwill Silkness

> Specify candle power and voltage when ordering. These Lamps are suitable for Yacht, Carriage, Bicycle,

These Lamps are suitable for Yacht, Carriage, Bicycle Miners' and Doctors, Head and other Lanterns.

Silkshag	23064	Sphere	Lam	p with side connection. ,	1.25
Silkwood	23065	44	44	plain	.90
Silkworm	23066	Flat	16		.90
Silky	23067	44	66	,	1.25



Miniature Incandescent Lamps-(Continued)

Lantern Lamps-Continued.

1/2 to 8 candle power. 2 to 60 volts. Specify voltage and candle power.

	Code Word.	List No.													ĭ	Pr	ic	e	L	ist	ć.
)	Sill Sillily	23068 23069	Flat	Lamp														\$		91	0



From 2 to 20 volts only. 1/2 to 8 candle power. Specify voltage and candle when ordering.

Sillock	23070	Lantern Lamp	.75
Sillon		Condenser Lamp	.85

No. 23071 Condenser Lamp is same pattern as No. 23070, but larger in size with a U shaped filament.





Silly	23072	Condense	er Lam	р	/	 	. 1.50
Sillyhore		Railroad					
Silo	23074	66	"	double	- 66	 	. 2.00

Colored Lamps.

All lamps here illustrated can be furnished in the following natural colors:

- 1. Milk-white; Opaque, superior to 5. Violet, 6. Amber.
- frosted glass. 2. Ruby; Chloride of gold glass.
 - 7. Greenish-Yellow; Uranium,

phosphorescing glass,

- 3. Blue. 4. Green,
- For colors, 20 cents additional for each lamp.

Frosting, 10 cents additional per lamp.



Receptacles for Candelabra Lamps.

Standard Round Candelabra Receptacle.

		Li	ist Price.
Code Word.	List No.		Each.
Lancsboro	13580		\$.30



No. 13581

Standard Flat-Base Candelabra Receptacle.

.30



No. 13582.

Candelabra Shade-Holder Receptacle.

.75



Star Shades with Colored Edging.



Receptacles for Miniature Lamps.

Round Miniature Lamp Receptacle.





Square Miniature Lamp Receptacle.



Miniature Shade-Holder Receptacle.



Larami

Shades for Miniature Lamps.

Electric Cooking and Heating Apparatus.

General Instructions as to installation and use of Cooking and Heating Devices.

In wiring for Electric Heating and Cooking Appliances, the capacity of conductors should be the same as for electric lights or motors using the same current.

Installations must be made in accordance with the rules of the Local Board of Underwriters applying to Electric Light, Heat and Power.

Special Plug Switches should be used, and the receptacle properly fused. Ordinary attaching plugs for lamp sockets must not be used; nor any appliances connected to a lamp socket, unless expressly specified.

Flexible Conductor Cord furnished with the apparatus should be used. This cord is made expressly for the purpose; is water and fire-proof, and has been specifically approved by the Board of Underwriters.

In ordering always state voltage required. All our apparatus will work on either the direct or alternating current.

'All articles are marked for the volts required; under no circumstances should the apparatus be used on circuits of different voltage

In the event of failure of any article to operate properly, notify the agent from whom you purchased the device, explaining the nature of the failure as you understand it, but do not take the article apart.

When using the cooking utensils always prepare the

food before turning on the electricity; and if the vessel is to hold a liquid, be sure that some liquid is in it before the current is turned on, and that the supply is not exhausted while the utensil is in use.

Never empty a vessel while the current is turned on.

Articles should never be taken apart nor immersed in
water, unless intended for that purpose.

Appliances for heating water in which the heating apparatus is enclosed in a coiled copper tube, should be always kept supplied with sufficient water to cover the coil.

Always turn the current off when the apparatus is not in use. As this rule is observed, it is cheaper or dearer than coal.

Suspend the conductor cords of laundry irons by spiral springs or rubber bands over the work tables. This will keep the wires away from the work. Smoothing irons heat rapidly when on the stand with the current on. Don't pull the utensils around by the connecting cords.

Smoothing irons, portable stoves and similar apparatus require from four to ten minutes to heat to their working temperature. Devices for boiling, such as tea kettles, chafing dishes, farina boilers, glue pots, etc., require from ten to twenty minutes to boil. Large urns, from thirty to forty minutes.

FIL

No. 23152.

Electric Chafing Dish.

The use of a Chafing Dish has become well-nigh universal, but how frequently does it happen that when the guests are gathered at the table it is discovered that the alcohol is exhausted. The Electric Chafing Dish requires no alcohol, but is always ready for use. It is furnished in a graceful pattern, in the conventional form, of spun copper, highly finished in silver or nickel. A most acceptable present for any one. Adapted to any lighting circuit. Mention voltage.

Code Word,	List No.		Amperes at		List Price, Each.
Sinisterly	23152	Two quarts, nickel plated	, 4		\$15.00
Sinistrul	23153	Two quarts, silver plated,	4	.,	20.00

Electric Cooking and Heating Apparatus

(Continued.)

Farina Boiler.

This very useful device has proved to be the most convenient for a great variety of uses. The outer vessel is of heavy copper, nickel plated, the inner being made entirely of porcelain, the heating coil (also nickeled) is in a water bath surrounding the porcelain pot in which the cooking is done. It is so constructed that all parts are easily separated.

Any little article of food prepared and served in an attractive manner is always more palatable, and this adds much to its enjoyment whether one is ill or well. For the many uses to which this boiler may be applied it is ideal. It is so designed that three divisions of heat may be obtained—the maximum, to quickly heat up the vessel; then a less amount may be used to do the cooking, or a still less amount to keep the contents of the vessel warm.

Made for direct or alternating current, the usual voltages used for lighting.



"Five O'clock Tea."

With this very handsome combination one can complete the furnishing of a tea table in keeping with its dainty silver, china and linen. The silent electric current quickly supplies the necessary heat without the use of alcohol, matches and flame, and also provides a stove (when the kettle is removed), on which to warm the wafers or crackers. It is artistic in design, highly finished in silver or nickel plate.

Made for any electric lighting circuit.

					Amp 110		
Sinker	23156	One	quart,	nickel			 15.00
Sinkhole	23157	66	44	$_{ m silver}$	"	4	 20.00

Electric Stew Pan.

This is a universal utensil, very attractive in appearance, and one of the most salable of electric heating devices. The heater consists of a 44 inch disc, to which is fitted an (removable) Aluminum Stew Pan, with capacity of \$\frac{3}{2}\$ of a quart. Just the thing to use in lighthousekeeping, exactly what is wanted in a physician's office, drug store, hospital, the nursery, or where a little food is to be cooked, a hot drink made, or hot water used. Quick, clean and inexpensive. Connects to any lamp socket. Packed complete with cord and plug.



Sinless 23158 Heater and Aluminum Stew Pan, 2 5.00



No. 23154.



No. 23156.



No. 23158.

Electric Cooking and Heating Apparatus (Continued.)

Electric Curling Iron Heaters.



No. 23159. .

This simple device has become a necessity in many homes, apartment houses, hotels, steamers, etc., where the incandescent lamp has displaced gas or lamps. It may be attached to any lamp socket, heats quickly, uses less current than a 16 c. p. lamp, and renders unnecessary candles or other more or less dangerous heating devices in the dressing room. The use of an always clean iron is of no little importance when just finishing the toilet. They are quite ornamental. The current is automatically cut off when the iron is removed. Made for direct or alternating current—52, 100 or 110 volts. Mention whether for Edison, Westinghouse or T. H. Sockets. One in a package, complete, ready for use.

Code Word.	List No.		Amperes of	L	ist Pri Each
Sinner	23159	Automatic,	10		-

Special Electric Heating Devices to order.

Electric Heating Pad.

The perfection of this device is a very important step in electrical development. By its use heat may be applied in an ideal way to the body. In form it is similar to that of a piece of thick, soft felt. It is light (weighing but a few ounces), clean, safe, and free from all objectionable features of hot water bottles, poultices or other hot applications, and far more effective. It is always ready for use, wherever electric lights are used, costs very little to operate, is so constructed that it will last for many years, and the first cost is moderate. Its great value in the hospital and cases where hot applications are necessary to sustain life is evident. It is extremely useful as a foot warmer for invalids or elderly people, and proves to be a household necessity wherever used. Operates on any incandescent lighting circuit. State voltage and kind of lamp socket when ordering.

One-half amperes at 110 volts.

Simplegue 23160 12 x 15 inches, complete, with cord and plug ... 5.(

Electric Cooking and Heating Apparatus —(Continued.)

T. F.

No. 23162.

Portable Stove.

This Electric Stove is 4½ inches in diameter, is mounted on enameled slate base, has five feet of flexible cord, with plug connection for lamp socket. The stove is "hot" in about two minutes from the time current is turned on, It is just the thing for warming milk, boiling an egg, quickly making a hot drink of any kind, and for a physician's office.

Code Word,	List No.						L	ist Price.
Sinter	23162	Complete,	4 in.	diam.,	ready	for	use	\$4.00
Sintoe	23163	44	7 in.	"	66	64		7.00

The current required is 2 amperes at 110 volts. Made for 50, 100, 110 volts direct or alternating current.

Immersion Coil Heater.

This useful form of heater has many applications. It may be used for heating liquids contained in almost any kind of vessel, and has the advantage over any other form of liquid heater of communicating all the heat generated to the liquid. While shown coiled in cylindrical form, they can be furnished in flat coils or to conform to the shape of vessels in which they are to be used. These heaters are also made for three divisions of heat, controlled with a switch on the coil. The amounts are maximum, one-half and one quarter. By having this arrangement the highest economy is obtained in operation. The maximum being used to quickly heat up, and the minimum to maintain the temperature.

The coils consist of copper tubes, and are furnished either plain or nickeled. They are made for 52 or 110 volts, alternating or direct current, of such capacity as desired.



State voltage when ordering



No. 23171.

Electric Cooking and Heating Apparatus (Continued.)

Electric Glue Pot.



No. 23164.

No fire, no snoke, no dirt, no gases, no danger.

It it made entirely of burnished copper, and will last indefinitely. The water bath contains a relatively small amount of water, which is automatically replenished from a reservoir, heated by coil heater, arranged to give three divisions of heat. The maximum to be used to quickly heat the glue, and the minimum is usually sufficient to maintain the glue at the proper consistency. Absolutely no fire risk as with pots heated by gas or gasoline. This advantage alone is enough to justify a change from the old to the new. Pots are made for 52, 100 or 110 volt circuits, either direct or alternating.

			Amper	res at 110 v	olts.	
			Max.	Med.	Min.	
Sinnate	23164	1 pint	3	1.5	2	13.00
Sinuation	23165	1 quart	4	2.	1	14.00
Sinuose	23166	2 quarts	6	3	11	16.00
Sinnous	23167	1 gallon	10	5.	$2\frac{1}{2}$	18.00

Other sizes to order. State voltage when ordering.

In addition to the special glue pot shown in cut, we also furnish them without the reservoir. The entire pot is of heavy copper, with coiled copper heater, being in every way as substantial and durable as is possible to construct such a device. With this pot it requires from 16 to 20 minutes to have the glue ready for use, starting with everything cold. Much less time is required for the special type. In no other particular are they superior, while the price is less. In all glue pots the minimum current is sufficient to maintain the glue in proper condition for work.

			Amperes at 110 volts.				
			Max.	Med.	Min.		
Sip	23168	1 pint	4	2.	1	10.00	
Sipe	23169	1 quart	6	3.	$1\frac{1}{2}$	11.00	
Siphon	23170	2 quarts	8	4.	2	12.50	

Electric Cooking and Heating Apparatus

(Continued.)

Electric Smoothing Irons.

Unlike all others, except in form, are always clean, polished, and permit of continuous use. No time is lost in changing, cleaning, or useless rubbing with a cold iron, for they produce a "live heat" which is continuous throughout the period of use. A greater amount of work can be done by an operator in a given time with more ease and comfort than is possible with any other iron. The ordinary iron when first taken from the stove is frequently scorching hot, and gradually cools until repeated rubbing is necessary, where one stroke would suffice if the iron was "just right." Electric irons remain "just right," and no hot coal or gas stoves are required. These irons have proven of great value in sewing rooms, laundries and manufacturing establishments, and are deemed indispensable by those who have them.

We call particular attention to the Small Seaming Iron, No. 23175, for apartment house use, as it is specially suitable for laces, handkerchiefs and all similar light goods. Can be attached to any lamp socket,

Each iron is supplied with a suitable stand on a slate base; also five feet of duplex conductor. For additional length add 15 cents per foot to cost of iron. Special forms for factory use, 50, 100 or 110 volts as required.

Code Word.	List No.				An	peres a	at s.		t Price.
Sir	23175	41	lbs.,	Small Seaming,	2	Amp		 	\$5.00
Sire	23176.	$6\frac{1}{2}$	64	Light Domestic,	4	44		 	7.00
Siren	23177	75	66	Domestic,	. 5	"		 	7.50
Sirene	23178	9	66	Heavy Laundry,	5 or f	.44		 	8.00



No. 23177.

No. 23179.

Sirenical Sirenize

23180 110 9

Polishing Irons.

Regular Standard Sizes.

These from have the regular polisher bottom and are usually installed where the electric sad iron is adopted. Made in one weight, about four pounds.

Volts.	Amp. Consumpt.	Fuse required.
50	3, 4, 41, 5,	5 amp.
110	$1\frac{1}{2}$, 2 , $2\frac{1}{2}$,	3 "
Volte		

Electric Cooking and Heating Apparatus (Continued.)

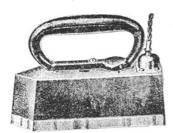
Goose Irons.

These are essentially an industrial appliance, Their adoption has been so general that they may now be considered a fixture which no manager, seeking the most economical operation of his factory, can afford to overlook. Four people will easily do the work of five who use any other form of iron. One iron to each person is all that can be used. It is always ready for use and at hand; no walking half the length of the building to a stove to exchange irons with its consequent loss of time,

12 and 18 lbs. {	Volts. 50	Amp Consumpt. 7, 8, 9, 10	Fuse Required 10 amp.
12 and 18 10s.	110	$3\frac{1}{2}$, 4, $4\frac{1}{2}$, 5	5 "
95 the \$	50	10, 12, 14, 16	16 "
25 lbs.	110	5, 6, 7, 8	.8 "

23181	12 lb.	Goose	 10.00
23182	18 lb.	44	 11.00
22102			

State voltage when ordering.



No. 23181.

Siriasis Siritch Sirins



No. 23161.

Electric Foot Warmer.

This device appeals at once to many who suffer with their head bursting from heat in a vain endeavor to keep warm, Improper distribution of heat, floor draughts, the temperature difference between the floor and a higher level, all combine to produce cold feet and, as a sequence, an uncomfortable condition generally. The electric foot warmer exactly supplies the remedy by producing a little heat just where it is wanted, and a high temperature in the room is unnecessary. It is made of cast-iron, in form to constitute a most desirable foot rest, finished in black japan, is guaranteed to last for many years, and may be left in circuit indefinitely-packed complete with cord and plug ready to connect to lamp socket. The current required is the same as for the usual (16-candle power) incandescent lamp. State voltage and kind of socket when ordering. Made for all incandescent lighting circuits.

> Amperes at de

Simople

23161 Foot Warmer, size 9 x 12 ins.

.... 6.00



No. 23188

Electric Cooking and Heating Apparatus

(Continued.)

Disc Heaters.

The cut represents Disc Heater. The heating plate is 64 inches in diameter and mounted on a cast iron base, neatly japanned.

An intense heat is made by turning the switch to the extreme right, when boiling, frying, etc. When switch is placed on middle contact the temperature is reduced one-half, where it may be maintained indefinitely. This feature makes the utensil valuable in the kitchen, sick room or nursery, where water may be heated or food quickly and easily prepared. This serviceable utensil is now in use in private families, hotels, restaurants, physicians' offices, match factories, furniture factories, printing offices, laboratories, smelting works, sugar refineries, etc.; etc.

Disc Heaters 8 and 9 inches in diameter will be made to order in lots of not less than one half dozen. Apply for prices. Amp. Consumption.

6, 8, 10,

Fuse required.

10 amp.

		110	4,	4. "	
Code Word.	List No.			1	List Price.
Sirupy	23188	Disc Heater, 6	in. diameter		

Volts.

50

Pancake Griddles.

Griddles for Domestic use are made with one or with three polished circular heating plates on a cast iron frame or stand, neatly japanned. Their action is very quick, being ready to bake cakes within two minutes from the time the current is turned on.

The restaurant griddle, having one polished plate 12 x 18 in., is the largest size made. Three, four or more of these griddles side by side, may be operated at once or in units of one, two or three, according to the amount of work to be done, by which you pay for the actual amount of work done, instead of heating up a large griddle to do a small amount of work.

1 Sec. }	Volts. 50	Amp. Consumpt. 4, 5, 6,	Fuse Required 6 amp.
1 000. 3	110	2, 21, 3,	3 "
12 x 18 }	50.	30,	30 "



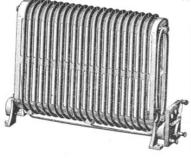


No. 23187.

23187 Restaurant Size, 12 x 18 (Polished Surface) 15.00 Sirrah

Electric Air Heaters.

Western Electric Company's Heater.



No. 23189.

Unless electricity is produced at very low cost, it is not commercially practicable to heat residences or large buildings. While this is true, the electric heater still has a wide field of application in heating small offices, bath rooms, snuggeries, cold corners of rooms, street railway waiting rooms, the summer villa on cool evenings, and in mild climates a still wider range. It has the pecufiar advantage of being instantly available, and the amount of heat is regulated at will. The heaters are perfectly clean, do not vitiate the atmosphere, and are portable. No definite rule can be given to determine the amount of electricity necessary for heating a given space though approximate estimates can be made by allowing from 1 to 2 watts for each cubic foot of air space to be heated. The latter amount for well constructed buildings in cold weather, or for quickly heating a bath room. The electric heater is extremely valuable in the late spring, when furnace fires are not in use, and a sudden raw spell comes on-the electric current is immediately available and takes the chill from the rooms at a minimum expense and trouble.

The Western Electric Company's Heater, made in the shape of a small steam radiator is 14½ inches long, 3½ inches thick, and stands in height 12½ inches, is finished in black enamel or Japan. It is made for two adjustments, half capacity and full capacity; the switch indicates when the current is off, when half of the heater is used and when it is all in use.

Made for 50 or 100 volts. Specify in your order the voltage, and whether direct or alternating current.

Volts. Amp. Consumption: Fuse required.

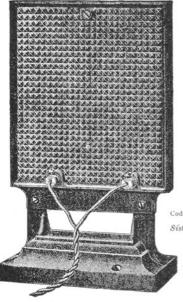
		100	14	20 amp.
Code Word.	List No.			List Price. Each.
Servente	23189	Western	Electric Heater	\$18.00

American Heaters.

The Heaters are finished in Black Japan, and are usually arranged to give three different adjustments of heat. They are made for any circuit. State whether for direct or alternating, and voltage when ordering.

Code Word.	List No.	L	engt	h.	He	ight		Wi	dth.	Max. Wat	t						I	ist Price. Each.
Sisalgrass	23190	26	in:	х	22	in.	x	2	in.,	2,000	١,							\$25.00
Sisery	23191	26	44	Х	22	44	х	4	+6	4,000		, ,	 					30.00
Siskin	23192	26	"	X	22	66	х	7	66	6,000		 						45.00
Siskinit .	23193	26	66	Х	101	"	X	2	44	1,200								15.00
Siss	23194	26	66	х	101	64	х	4	66	2,400		 						20.00
Sissoo	23195	26	66	х	101	16	x	7	44	3,500								30.00
Sist	23196	26	66	Х	103	66	Х	10	44	4,500								40.00

Made in Gold Bronze or White Enamel for \$10.00 additional to List Prices.



Electric Air Heaters—(Continued.)

Atmospheric Heater.

Double.

This Heater is constructed with two heating plates, each 7 x 8 inches, supported on a neat base four inches high. In setting up, it can be so arranged that one or both plates may be used at the same time, and will be found very serviceable in small rooms or for other light work.

Volts.	Amp. Consumption.	Fuse Required
50	17	18 amp.
110	84	9 "

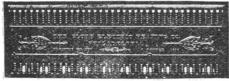
Code Word. List No. List Price.

Sister

23197 Atmospheric Heater

\$12.00

No. 23107.





No. 25590.

Stationary Electric and Car Heater.

Each Heater consumes 1 ampere on 500 volts circuit, giving a temperature of 220 deg. Fahrenheit at Grate Opening.

Size Type B, 31 inches long, 101 inches high, 2½ inches deep, Weight 22 pounds.

25589 Type B, Car Heater 15.00

Type C panel heater for side seat cars heating coils and current consumption same as type B.

Aconitine 25590 Type C car heater, 15.00



No. 23400.

Heater with Jacket removed

Will work on either direct or
alternating current.



Portable Electric Heater.

The smaller heater contains ten heating coils, each coil consuming .5 of 1 ampere on 110 volt circuit.

The larger heater contains twenty heating coils, each coil consuming 75 of ampere on 110 volt circuit.

. To determine the heating capacity of these heaters figure 1 watt of electric energy to every two cubic feet of air space

This rule will hold good in well constructed buildings, with the outside temperature at 32 degrees Fahrenheit

Code Word	List No G No List
Sisterly	23199 600 Height 191 inches,
	diameter, 14 inches, weigth, 28 pounds
Sistrum	23400 601 Height, 26 inches,
	diameter, 14 inches, weight 35

Electric Broiler.

Size 9 x 11 broiler, weight, 27 pounds, 8 amperes, 110 volts.

Broils steaks, chops or chickens in six minutes.

There is no odor or smoke from this Broiler, as the heat is applied from the top. The jucies of the meat are retained and a rich flavor imparted, which it is impossible to obtain by any other method.

Can be used in windows or on lunch counters by simply attaching to any electric light circuit,

Cannot be appreciated without a trial,

Acolythist 25588 Electrical Broiler...... 2

When ordering please state voltage.



Electric Heating Irons.

These laundry irons, tailors' irons and curling iron heaters are noted for their excellent mechanical, as well as electrical design and they possess no parts that will easily get out of order.

The heating coils are made of the very best material obtainable, and will last for years when properly used.

When ordering always state voltage.

Three Lb. Oval Shape Nursery Iron.

This iron is intended only for small and fine work, such

In strongs intended only for smart and the work, such as lace collars, fine handkerchiefs, baby dresses, etc.

It is wound for any voltage up to 125, direct or alternating, and can be attached to any ordinary lamp socket. Will get hot in less than 10 minutes,

25473 Consumes 240 watts...... \$6.00

Five Lb. V Shape Laundry Iron.

This size is best adapted for ordinary laundry work, where the iron is used constantly on the same grade of goods. It is not intended for heavy ironing. Wound for any voltage up to 125, direct or alternating.

Six and One-Half Lb. V Shape and Oval Shape Household Irons.

25476 Consumes 600 watts..... 8.00

These two sizes will meet all requirements for regular household ironing. They will give sufficient heat for the heavy work, and are not too heavy for the small work. Wound for any voltage up to 250, direct or alternating. 25475 Consumes 600 watts...... 8.00

Eight Lb. V Shape Laundry Iron.

This iron is constructed for constant heavy ironing and will give sufficient heat for the heaviest material.

Wound for any voltage up to 250, direct or alternating.



The electric tailors' irons can be depended on to give a steady uniform heat, and will always remain clean.

Wound for any voltage up to 250, direct or alternating. Accountability 25478 12 lb. consumes 530 watts, 91 inches long; 31

inches wide..... Accountableness25479 16 lb consumes 600 watts; 91 inches long; 3

inches wide..... 16.00

Twenty Lb. Tailor Iron.

This is the size mostly used by custom tailors. It is constructed on the same principle as the 12 and 16 lb. irons. When ordering always state whether for custom tailors, or manufacturing clothiers use.

Wound for any voltage up to 250, direct or alternating.

25480 Consumes 700 watts, length 11 in., width 31 in. 18.00 Accountably

Curling Iron Heater.

The heater is finished in bronze and made in shape of a dog, with opening at the mouth to admit curling iron. It is mounted on a handsome marbleized base, always ready for use, giving out no odor or smoke. Wound for any voltage up to 125,





No: 25477

No. 25478

Accusted

Accordion



No. 25480



Electric Soldering Iron.

The advantages of an electric soldering iron over those heated by gas, gasoline, or charcoal, are numerous. The heat is constantly applied, the copper remains tinned much longer, and the operator can work right along with one iron, thus saving considerable time. In hot weather it is a great boon to discard the old time soldering-iron stove or furnace, and use an iron that emits no heat except at the point where wanted.

The irons are made in different sizes to meet all requirements. When ordering specify what kind of work the iron is to do.

Special irons made to order. Always state voltage.

No. 2 Light.

This iron is made for very light work. It is a great time saver and a very convenient tool. Can be attached to an ordinary lamp socket. Wound for any voltage up to 125, direct or alternating.

Code Word. Accomptable List No Price 25469 Weight, 1 lb. 6 oz.; length 13 in.; tip $\frac{9}{16}$ in. diameter. Consumes 135 watts..., \$6.00

No. 2 Regular.

This size will do for any work requiring a medium hot iron, such as light tinsmith's work, lead glazing, soldering commutator connections and bands on small armatures, wire joints in ceilings, and places where the marks from a flame would be objectionable, etc. It is not intended for heavy work.

Wound for any voltage up to 125, direct or alternating.

25470 Weight, 1 lb. 10 oz.; length 13½ in.; tip 1 in. diameter, either chisel shape or pointed. .Consumes 155 watts.....

No. 3 Regular.

The iron is recommended for all-around work. It is heavy enough to do any ordinary soldering, and is not too heavy to be used on light work.

Will be found well adapted for banding armatures of of any size, electrotype soldering, regular tinsmith's work, etc.

It is also made with a straight pointed tip, § inch diameter, known as No. 3 light. If anchored to the work bench, leaving both hands of the operator free to handle the work, it can be used to great advantage on toys, lamp cases, fuse plugs, etc., and will save time.

Wound for any voltage up to 250, direct or alternating.

25471 Weight, 2 lbs. 8 oz.; length 14 in.; tip 1½ in. diameter, either chisel shape or pointed. Con-

No. 4 Regular.

sumes 320 watts... 7.00

This size is intended only for extra heavy work, and will get very hot. It is constructed on the same principal as the other sizes.

Wound for any voltage up to 250, direct or alternating.





Accomptant



Accordable



20112





Cross Section.

Conduit and Conduit Fittings.

Interior Conduit.

Iron Armored Conduit.

For Direct and Alternating Currents.

The Iron Armored Conduit possesses all the qualities of gas or water pipe, and can be installed with equal case by the use of tools for cutting, threading, etc. In combination with the brass armored conduit it can be advantageously employed in construction work under concrete, tiled or mosaic floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or brass armored conduit.

Thickness of armor, \(\frac{1}{6}\) inch. All sizes supplied in ten foot lengths, each length having a coupling attached to one end. Tubes have straight threads at both ends, and in making joints these ends should be firmly butted in center of coupling to secure continuity of insulation.

Prices on all Iron Armored Conduit and fittings are subject to change, on thirty days' notice, on account of the fluctuation in prices of iron piping. Contractors are advised to obtain from us latest quotations before placing their orders.

Code Word,	List No.							t	ast Price Per 100 ft.
Needle	6710	1	in.	inside diam.	.81	in. o	utside		
Needless	6711	10	66	66	1.05		66		
Needlessly	6712	29	44	44	1.315	44			18.00
Needlewark	6713	11	44	66	1.66	66	**		28.00
Neglected	6714	1,4	44	44	1.90	44	44		36.00
Negotiate	6715	1,8	44	66	2.375	44			50.00
Negro	6716	21	66	44	2.875	44			67.00
Negus	6717	2_{19}^{N}	44	44	3.50	16			84.00

All elbows, nipples and special couplings, as well as tools necessary for use with Iron Armored Conduit, can be furnished by us, and prices on same may be had on application.

Iron Amored Conduit-(Continued.)





Code Word.	List No.							ist Price. Per 100.
Nomadic	6728	1	inch,	inside diam.,	14	inches offset	t	\$41.00
Nomenclatur	e 6729	77	5 44	44	17	66		62.00
Nominal	6730	19	66	44	19	44		76.00
Nominate	6731	11	16	66	23	**		96.40
Nonage	6732	1,4	5 66	44	28	6.6		182.00
Nonconform	st6833	1	"	44	16	-4		42.70
Nondescript	6834	7	66	44	19	66		64.25
Nones	6835	3	66	66	21	44		79.10
Nonparcil	6736	11	46	44	25	66		100.40
Nonplus	6737	1,4	6	66	30	44		187.00
Nonsense	6738	ł	44	44	18	44		44.40
Nook	6739	17	146	66	21	64		66.50
Noon	6740	13		44	23	66		82.20
Noonday	6741	11	44	44	27	- 44		104.40
Normal	6742	11	64	66	32	- "		192.00

No. 6743.

No. 512 Iron Covered Corner Elbow.

Northerly	6743	1	inch.	inside diam.,	14	inches offset	 41.00
Northern	6744	13	- 44	44	17	44	62.00
Northward	6745	10	- 14	44	19	66	76.00
Nosegay	6746	11	44	46	23	44	 96.40
Nosology	6747	1,5	44	46	28	44	182.00
Nostrum.	6748	1	64	66	16	44	42.70
Notable	6749	10	44	66	19	**	 64.25
Notably	6750	10	44	6.6	21	44	79.10
Notarial	6751	11	66	64	25	66	 100.40
Notary	6752	1,4	44	44	30	4.6	 187.00
Notation	6753	1	44	66	18	66	 44.40
Notch	6754	170	64	64	21	6.6	 66.50
Note	6755	10	+4	66	23	66	82.20
Notebook	6756	11	4.6	66	27	66	104.40
Noted	6757	1,4	44	44	32	44	 192.00

No. 416 Long Insulating Elbows.

No. 416 Elbow corresponds in style with No. 116 Brass' Armored Elbow.

INSIDE DIAMETER.	- j	70	10	1.}	1_{75}^{4}	OFF-SET.		
Length, 10 inches Per 10 " 12 " " " 14 " " " 16 " " " 18 " "	0 \$23 00 25, 00 27 00 29 00 31 00	\$28 Q0 30 50 33 00 35 50 38 00	\$40 00 44 00 48 00 52 00	\$58 00 63 00 68 00	\$106 00 114 00	½ inch Elbo	w, 6g inches. 7 " 8½ " 10½ " 12 "	

Iron Armored Conduit-(Continued.)



No. 414 Short Insulating Elbows.

Code Word.	List No.										List Price, Per 100.
Nocturnal	6718	1/2	inch,	inside	diameter						 \$18.00
Nod	6719	10	**	44	44						 23.00
Noddle	6720	10	44	**	**						 30.00
Noddy	6721	11	44	44	44						 *35.00
Node	6722	1,	. "	44	44		. ,				 60.00
Nodule	6723	1,	0 44	4.6	44						 165.00
Noggin	6724	21	64	4.6	66						240.00
Noise	6725	2,	0 **	4.6	44	,					350.00



No. 418 Insulating Outlet Elbows.

Sauci	21475	+	inch	 22.00
Saucy	21476	10	44	 30.00
Sauerk	21477	10	16	 40.00



No. 419 Insulating Outlet Elbows.

Saupt	21478	1	inch	inside	diameter	 20.00
Sunn	21479					
Sauri.	21480	10	**	4.4	4.4	 35.00



No. 580 Insulating Elbow Outlets.

Sausar	21481	1	inch	inside	diameter	 25.00
Savab	21482			4.6		
Sava	21483	10	61	4.6	**	38.00
Suragel	21484	13	44	4.6	**	 50.00



No. 581 Insulating Elbow Outlets.

Savagen	21485	à	inch	inside	diameter	25.00
Savager	21486			66	44	30.00
Savagis	21487	10	44	4.6		38.00
Savanna	21488	11	. 44	44	**	50.00



No. 284.

Iron Amored Conduit-(Continued.)

No. 284 Insulating Nipples.

List Prices.

DIAM.	LENGTH IN INCHES PRICE, EACH				PRICE, EACH, OF EXTRA LONG.											
Inches.	Close. Short		Short Long					Long.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 is
$\begin{array}{c} \frac{1}{2} \\ 70 \\ 90 \\ 10 \\ 1\frac{1}{4} \\ 1\frac{4}{70} \\ 1\frac{8}{70} \\ 2\frac{1}{4} \\ 2\frac{8}{10} \end{array}$	118 188 114 118 12 2 24 24	1½ 2 2 2½ 2½ 2½ 2½ 3	2 2½ 2½ 3 3 3 3 3½ 3½	2½ 3 3 3½ 3½ 3½ 4 - 4	3 3½ 3½ 4 4 4 4 4½ 4½	3 to 4 to 4 to 4 to 5 to 5	\$0 07 09 10 14 17 25 56 75	\$0 10 11 15 20 25 35 75 95	\$0 18 20 22 29 36 44 75 95	\$0 19 21 24 31 38 49 80 1 00	\$0 20 22 27 33 40 54 85 1 06	\$0 21 23 29 35 42 59 91 1 15	\$0 22 25 31 38 45 64 1 00 1 24	\$0 23 27. 33 40 48 69 1 10 1 34	\$0 25 29 36 43 51 74 1 20 1 44	\$0 2 3 4 4 5 7 1 3 1 5

100	200		
	accorde		器
Basis	25025	er 20.5	

No. 21489.

		No.	104	Coupl	ings.		
Code Word.	List No.					Lis	t Price.
Savan	21489	1 inch	inside	diameter,	per 100		\$7.00
Sur	21490	70 66	+6	44	44		10.00
Saven	21491	9 44 TO	44	44	44		13.00
Savir	21492	11 "	66	46	66		17.00
Savingo	21493	1,4 "	66	66	66	 	21.00
Savingne	21494	1,8 "	66	66	66		28.00
Savo	21495	21 "	44	44	44		40.00
Savori	21496	2,8 "	44	66	66	 	60.00

No. 104 Right and Left Couplings.

170	4		
	A		
	"		
- V	"		

No. 21505.

Savorl							 11.00
Savoryl	21498	70	66	44	"	44	 15.00
Saul	21499	20	66	66	44	66	 20.00
Sandust	21500	11	66	44	66	44	 25.00
Samull	21501	1,4	66	66	44	44	 30.00
Sawpit	21502	1,8	46	44	+4	44	 50.00
Smeset	21503	21	16	6.6	66	44	 85.00
Sawyer	21504	2,8	66	66	44	44	 20.00
				2	0 0		

No. 582 Caps.

Suxifrage	21505	1	inch	inside	diameter,	per 100		5.00
Saxon	21506	70	16	44	44	44	8	8.00
Saxonism	21507	100	66	+6	44	44	1	1.00
Scab	21508	11	66	66	66	66		5.00
Scabbard	21509	1.4		66	6.6	44	22	00.5
Scabbed	21510	1.5		44	44	+6		0.00
Scabiness	21511	21	44	44	66	66	50	0.00
Scabby	21512	2,8	0 66	64	44	44	80	0.00



No. 21514.

No. 583 Plugs. Cast Iron.

21513 + inch. each.....

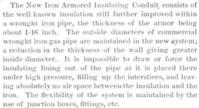
Scabrous	21514	10	44	44														
Skewback	24058	10		**										ø				
Skewbridge	24059	11	44	66														
Skewer	24060	1,4	66	44														
Skewery	24061	1,8	16	66														
Skiff	24082	21	66	44														
Skidder	24063	2,8		44			. ,		 									

Conduit and Conduit Fittings.

INTERIOR CONDUIT.

New Iron Armored Insulating Conduit.

For Direct and Alternating Currents.



The New Iron Armored Insulating Conduit possesses all the qualities of gas or water pipe, and can be installed with equal ease by the use of tools for cutting, threading, etc.

In combination with the Brass Armored Conduit it can be advantageously employed in construction work, under concrete, tiled or mosaic floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or Brass Armored Conduit,

A saving in labor is effected in installing the New Iron Armored Conduit, inasmuch as it can be installed in advance of the mason work, at the most advantageous time during the construction of a building, without fear of accident to it by masons, mechanics or other workmen.

Code Word.	List No.							I	ist Price. Per 100 ft.
Site	24003	176	in, insid	le diam	675	in.	outside	diam	
Sited	24004	á	44	"	.84	44	- 66		11.50
Sitfast	24005	2	66	"	1.05	66	46		15.00
Sith	24006	1	"	64	1.315	66	66		21.00
Sitology	24007	11	44	66	1.66	66	66		27.00
Sitta	24008	11	64	66	1.90	66	66		34.00
Sitter	24009	2	46	66	2.375	66	6.6		. 47.00
Sitting	24010	$2\frac{1}{2}$	ke	44	2.875	66	44		67.00

All sizes supplied in ten-foot lengths, with a coupling for each length.

Tubes have slightly tapering threads at both ends, and in making joints these ends should be firmly abutted in center of coupling to secure continuity of insulation. Wherever the tube is cut the burr should be removed by using Butt Reamer.

Prices on all New Iron Armored Conduit and Fittings are subject to change without notice, on account of the fluctuation in prices of iron piping. Contractors are advised to obtain from us latest quotations before placing their orders.





New Iron Armored Conduit-(Continued.)

No. 1510 Iron Covered S Elbow.



Code Word.	List No.							st Price. er 100.
Sized	24027	76	inch,	înside diam.,	14	inches	offset\$	33.00
Sizel	24028	á	66	64	17	44		41.00
Sizer	24029	3	44	66	19	66		62.00
Siziness	24030	1	66	66	23	44		76.00
Sizing	24031	11	66	66	28	44		96.00
Sizy	24032	70	66	44	16	66		34.50
Sizzle	24033	5,	44	66	19	66		42.70
Sizzling	24034	3	66	66	21	66		64.00
Skain	24035	1	66	44	25	44		79.00
Skald	24036	11	44	44	30	44		100.00
Skate	24037	76	44	44	18	66		35.00
Skater .	24038	á	44	44	21	.44		44.40
Skayless	24039	3	66	64	23	- 44		66.00
Skenn	24040	1	**	44	27	44		82.00
Skeel	24041	11	46	**	32	66		104.00

No. 24012.

No. 1512 Iron Covered Corner Elbow.

Skeet	24042	28	inch	inside diam.,	14	inches	offset	33.00
Skeg	24043	à	16	44	17	44		41.00
Skegger	24044	3	- 66	61	19	44		62.00
Skein	24045	1	44	44	23	66		76.00
Skeletal	24046	11	66	66	28	66		96.00
Skeleton	24047	38	66	44	16	44	*******	34.50
Skelly	24048	28	44	66	19	44		42.70
Sken	24049	3	66	44	21	44		64.00
Skelp	24050	1	44	66	25	61		79.00
Skep	24051	11	61	+4	30	66		100.00
Skeptie	24052	38	64	66	18	44		35.00
Skeptical	24053	5	66	64	21	44		44.40
Skepticism	24054	3	66	66	23	44		66.00
Skepticize	24055	1	64	66	27	66		82.00
Skerry	24056	13	66	"	32	66		104.00

No. 1416 Long Insulating Elbows.

No. 1416 Elbow corresponds in style with No. 116 Brass Armored Elbow.

1N5	SIDE	DIAMI	ETER.	76	8	3	1	11			OFFSET	Γ.	
	12 i		Per 100	\$22.50	\$25.50 27.50	\$32.80	\$43.50 47.00	\$52.00 56.50	500.0	inch	Elbow,	7	inches.
44	14	44	"	24.00 25.50	29.50	37.80	50.50	61.00	- x ³	66	66	101	44
44	16	44	"	25.50	31.50	40.30	54.00	65.50	13	66	66	12	66

(New Iron Armored Conduit-Continued.)



No. 1414 Short Insulating Elbows.

Code Word	List No.											1	Per 100.
Situate	24011	16	inch,	inside	diameter	٠.	 . ,		 				\$16.00
Situation	24012	ğ	+6	44	66								18.00
Situated	24013	3	44	**	*4		 						23.00
Situs	24014	1	66	16	4.6				. ,				30.00
Sivan	24015	11	66	66	44		 						35.00
Siver	24016	11	66	66	44								60.00
Sixfold	24017	2	4.6	44	44					. ,			165.00
Sixpence	24018	25	66	44	44						. ,		240.00



No. 1418 Insulating Outlet Elbows.

Satiate	21430	70	inch	1																	21	-0	0	
Satiation	21431	8	44										,			,					24	.0	0	
Satiety	21432	3	16																		28	3.0	0	



No. 1419 Insulating Outlet Elbows.

Satin	21433	17	inch	inside	diameter	١.									18.00
Satinet	21434	8	44	+4	44									,	20.00
Satinflower	21435	4	**	44	4.0										24.00

No. 1580 Insulating Elbow Outlets.



No. 21436.

Sati	nspar	21436	12	inch	inside	diameter									25	.00
Satt	stone	21437	8	44	61	66									30.	.00
Sati	awood	21438	3	44	4.6	44									38	.00
Sati	ng	21439	1	66	66	+6									50	.00
Sixp	enny	24019	11	44	+4.	66							 		70	.00
Sixs	core -	24020	15	44	**	44									85	.00
Sixs	hooter	24021	2	66	44	66				. ,					110	.00
Sixti	uly	24922	21	66	6.6	66									150	.00

No. 1581 Insulating Elbow Outlets.



No		

Station	21440	17	inch	inside	diameter							 		25.00
Satire	21441	98	41	44	64									30.00
Satiric	21442	1	44	44	66									38.00
Satirical	21443	1	44	**	64							. ,		50.00
Sixthrate	24023	11	44	64	66									70.00
Sixtieth	24024	15	44	64	66									85.00
Sizable	24025	2	6.	44	44									110.00
Sizar	24026	21	14	16	44									150.00



No. 1284.

New Iron Amored Conduit-(Continued.)

No. 1284 Insulating Nipples.

List Prices.

INSIDE DIAM.		LEN	GTH I	N INC	IES.		PRICE	, EACH		Pl	RICE, E	ACH. (OF EXT	RA LO	NG.	
Inches.	Close.	Short Long.					Closeor Short.	Long.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 in.
17.0 8.0 14.1 1.1 1.1 2.2 2.1	1 1½ 1½ 1½ 1½ 1½ 1½ 2 2	1½ 1½ 2 2 2½ 2½ 2½ 3	2 2 2 2 2 3 3 3 3 3	2½ 2½ 3 3 3½ 3½ 3½ 3½ 4	3 3 3½ 3½ 4 4 4 4 4 4 4½	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$0 06 07 09 10 14 17 25 56	\$0 09 10 11 15 20 25 35 75	\$0 17 18 20 22 29 36 44 75	\$0 18 19 21 24 31 38 49 80	\$0 19 20 22 27 33 40 54 85	\$0 20 21 23 29 35 42 59 91	\$0 21 22 25 31 38 45 64 1 00	\$0 22 23 27 33 40 48 69 1 10	\$0 23 25 29 36 43 51 74 1 20	\$0 25 27 31 40 46 55 79 1 30

Code Word. List No.



w	Section 1	200	
	Nr	014	
	INO.	214	**.

ľ	No.	1104	Coup	lings.	
			diameter,		

List Price.

Satirist	21444	1/2	inch	inside	diameter,	per 100	 \$6.00
Satirize	21445	500	66	16	66	66	7.00
Satisfaction	21446	3	16		44	4.6	 10.00
Satisfactive	21447	1	44	44	44	44	 13.00
Satisfactoril,	/21448	11	in	44	44	66	17.00
Satisfactory	21449	11	66	44	44	46	 21.00
Satisfiable	21450	2	66	4.6	44	44	 28.00
Satisfier	21451	21	44	61	64	44	 40.00

No. 1104 Right and Left Couplings.

Satisfy	21452	78	inch	inside	diameter,	per 100)	8.00
Satire	21453	ĝ	44	66	66	44		11.00
Satrap	21454	3	.44	6.6	44	44		15.00
Satrapal	21455	1	44	44	66	66		20.00
Satrapess	21456	11	61	41	44	44		25.00
Satrapical	21457	1	116	4.6	+4	94		30.00
Satrapy	21458	2	**	4.6	+4	44		50.00
Saturable	21459	21	44	44	44	44		85.00



No. 21460.

No. 1582 Caps.

S	aturant	21460	350	inch	inside	diameter,	pér-100					 		3.00
S	aturate	21461	â	16	44	44	**							5.00
S	aturation	21462	2	44	44	44	44							8.00
S	aturity	21463	1	44	44	164	44		,					11.00
S	atarn	21464	11	56	66	* 44	4.6							15.00
S	aturnalia	21465	11	w	66	44	16				٠.			22.00
S	aturnatian	21466	2	66	44	*66	44							30.00
S	aturnaliar	21466	2}	44	44	44	66							50.00



No. 21469.

No. 1583 Plugs. Cast Iron.

Saturnian	21467	10	inch,	eact	ì.					٠,								
Saturnine	21468	9	44	66														
Satyr	21469	¥	44	66														
Satyrie	21470	1	66	66														
Sauce	21471	11	66	66														
Sauceboxy	21472	11	66	66											. ,			
Saucerx	21473	2	44	66														
Saucilyx	21474	24	66	64					 									

Sketcher

Iron Armored Insulating Conduit—(Continued.)

Single Tube System for Direct or Alternating Currents.

Main Junction and Terminal Box.

If installation is to be made before partition walls are erected, we place the Outlets to order, to clear the thickness of Terra Cotta wall. If orders for special Boxes do not specify "Brick" or "Lath and Plaster," we make the



No. 32502

em for B	rick Worl	k.							
de Word	List No							List Price Each.	
etcher	32502	Dimensions:	Outside	length,	6	inches,	width,		

3% inches, depth 3 inches..... We advise the use of Nipples, as they are fitted flush with inside of

boxes before they are lined, thus keeping the insulating lining intact, which during installation, is liable to damage by screwing lengths of conduit too far into the Boxes.

Porcelain Cut-Out for No. 32502.

1201 Two Circuit Cut-Out Sketchily

Covers for Box No. 32502.

DIMENSIONS OF BOXES	FINISH.	DESI	GNS.
OUTSIDE.	PINISH.	No. 32034.	No. 32036
6 x 3g	Bronze Polished Nickel "Galvanized Plain Iron	\$0 65 55 55 40	\$0 65 60 20

Double Tube System for Direct Current Only.

Main Junction Boxes for Double Tube Mains and Double Tube Branches.

They are made so that covers can be used.

Junction Boxes for Brick or Terra Cotta Work have the upper rim of holes parallel with and 5 inch from rim of box.

Junction Boxes for Lath and Plaster Work have the upper rim of holes parallel with and \$\frac{2}{3}\$ inch from rim of box.

Sketchy	32002	Two Circuit, Main Line, for Brick; length, 8§	
		ins.; width, 37 ins.; depth, 3 ins	6.50
Skew	32011	Two Circuit, Main Line, for Lath and Plaster;	
		langth \$5 inc . width 27 inc . donth 23 inc	6.75

Porcelain Cut-Out for Nos. 32002 and 32011.

128‡ Two-Circuit Cut-out..... Skewarch 1.90

Porcelain, 1 inch thick.

Metal Covers for Junction Boxes.

DIMENSIONS	FINISH.	DESIGNS.							
OF BOXES INSIDE.	FINISH.	No. 32062.	No. 32064						
8§ x 3¾	Bronze Polished Nickel "Galvanized	\$0 85 70 75 55	\$0 75 70. 25 55						



No. 32002.



No. 32590.



No. 32590-Right Hand.



No. 32591-Left Hand.

Iron Armored Insulating Conduit—(Continued.)

Feeder Terminal Junction Boxes for Single Tube System.

These Boxes are manufactured on the plans shown for the various circuits as described below; prices include Nipples,

Two Wire System.

Dimensions of Boxes inside-Length, 7½ inches; width, 3% inches.

Code Word.	List No.	List Price. Each.
Sky	32590	Right Hand, for Brick Work or Terra Cotta, depth 3 inches
Skyblue	32591	Left Hand, for Brick Work or Terra Cotta, depth 3 inches
Skyrolan	32592	Left Hand, for Lath and Plaster Work, depth 3½ inches
Skyed	32593	Right Hand, for Lath and Plaster Work, depth 3½ inches

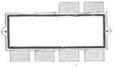
Unless otherwise specified, Outlets are made for 14-inch Conduits for feeders, and 1-inch Conduits for distributors.

Porcelain Cut-Out for Above.

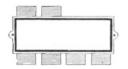
Skyry Skyry

No. 32091.

61 Two-Wire Feeder Terminal 3.5	3.50
---------------------------------	------



No. 32091-Right Hand.



No. 32090-Left Hand,

Feeder Terminal Junction Boxes, Double Tube System.

Two Wire System.

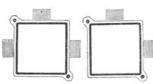
Dimensions of Boxes inside-Length, 85 inches; width, 35 inches.

Skyhigh	32090	Left Hand, for Brick Work, depth 3 inches	6.50
Skylark	32091	Right Hand, for Brick Work, depth 3 inches	6.50
Slavedriver	32092	Left Hand, for Lath and Plaster Work, depth 32	
		inches	6.75
Slaveholder	32093	Right Hand, for Lath and Plaster Work, depth	
		32 inches	6.75

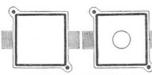
Prices for Boxes include Nipples.

Unless otherwise specified, these Boxes are supplied with Nipples for Risers for 1-inch Conduit; Mains, for 2-inch Conduit.

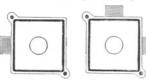
No. 32964.



Nos: 32690, 32678, 32694 and 32675.



Nos. 32696, 32665, 32692 and 32666.



Nos 32598, 32667, 32698 and 32668.

Iron Armored Insulating Conduit—(Continued.)

Feeder, Splicing, or "Pulling-in" Boxes for Single Tube System.

Unless otherwise specified in orders, Feeder Junction Boxes are furnished for 14-inch Conduit.

				Tw	o Wire Syster	m.		
	Code Word.	List No.						Price.
	Slaver	32598	For	Brick	or Terra Cotta,	2	Outlet	4.10
	Slaverer	32692	66	66	44	3	61	 4.75
	Staveringly .	32696	66	66	44	2	44	 4.10
1	Slavery .	32690	66	-66	44	3	44	 4.75
l	Slaveship	32694	44	44	44	2	44	 4.10
•	Stavetrade	32698	44	44	44	3	66	 4.75

Nos. 32678, 32675, 32665, 32666, 32667, 32668 are for Lath and Plaster Work. For list prices of these add 50 cents to the above list.

Dimensions inside, for Brick or Terra Cotta Work: Length, 61 inches; width, 61 inches; depth, 23 inches. Nipples are placed to allow for 15 of an inch for Plaster.

Dimensions inside, for Lath and Plaster Work: Length, 61 inches; width, 61 inches; depth, 31 inches. Nipples are placed to allow for 1 of an inch for Lath and Plaster.

Covers to fit these Boxes are listed on separate page, but are not included in these prices.

In ordering be careful to specify sizes of Conduit to be used, and if Cutout will be required. Cut-outs for these Boxes are not carried in stock; but will be made to order at short notice, mounted on Marbleized Slate.

Intersection or Splicing Boxes.

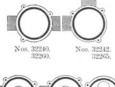
Diameter inside, 31 inches. Depth for Brick Work 11 inches. Depth for Lath and Plaster 17 inches. Thickness of Walls, 75 inch. This Box is not intended to be used with a Cut-out.

Price includes Nipples.

For Brick or Terra Cotta Work. WITHOUT COVER.

Code Word.	List No.		1//	II	HOU	T	C	OV	E	R.								Li	st Price.
Slavie	32252	3	Outlets,	2	Side	, 1	I	30	tto	m	١.								\$1.39
Stavonic	32273	2			Bott														1.18
Slavish	32240	2	44	2	Side	٠													1.18
Slavishly	32242	2	44	2															1.18
Stavishness	32250	2	"	1	**	1	В	ot	to	m									1.18
Slavism	32266	3	Outlets,	2	Side	, 1	В	ot	to	m									1.49
Slavocracy	32274	2			Bott														1.28
Stavonian	32260	2	66		Side														1.28
Slaw	32265	2	44	2															1.28
Slay	32267	2	44	1	66			Sot											1.28

Outlets are placed to inch below rim of Box for Brick or Terra Cotta and 3 inch for Lath and Plaster Work.



Nos. 22250. Nos. 32273.

32266. 32267.32274. 32174.

Iron Armored Insulating Conduit—(Continued.)



Nos. 32196. 32165.	Nos. 32192. 32166.	Nos. 32098. 32167.

Splicing or "Pulling=in" Boxes.

Double Tube System.

Dimensions for Brick or Terra Cotta: length, 61 inches; width, 61 inches; depth, 23 inches For Lath and Plaster: length, 64 inches; width, 64 inches; depth, 34 inches. Con Delak on Tonna Cotta

		For Bi	rick or	Terra C	otta.		
Code Word.	List No.						Price.
Slayer	32196	Two-wire	System,	without	Cover		5.50
Sleaziness	32192	66	44	66	44	 	7.00
Sleazy	32098	66	61	44	61	 	5.50
Sled	32172	44	66	66	66	 	8.50
Sledding	32194	44	44	44	14	 	5.50
Sleek	32198	44	66	44	66	 	5.50
Sleekly	32190	64	44	44	44	 	7.00
		For	Lath an	d Plast	er.		
Sleeky	32165	Two-wire	System,	without	Cover	 	5.75
Steekness	32166	66	4.1	66	44	 	7.25
Sleekstone	32167	66	66	,66	44	 	5.75
Sleep	32173	44	44	66	44	 	8.75
Sleeper	32174	66	44	64	44	 	5.75
Sleepful	32175	66	64	+4	44	 	5.75
Sleepily	32178	44	66	44	**	 	7.25

Unless otherwise specified in orders, Feeder Junction Boxes for Double Tube System are furnished with Nipples.

Cut-outs for these Boxes are made only to order.

Nos. 32190.

32174.

Branch Circuit Junction Boxes.

Large Size-Complete with Nipples. Single Tube System.

For Brick or Terra Cotta. Sleepiness 33132 3 Outlets, 1 Main, 2 Branch \$3.75

Sleeping	33133	3	66	1	66	2	"]	R.	(r]	L								3.7	5
Sleepless	33134	3	41	2	44	1	66													3.8	35
Sleeplessly	33136	4	46	2	64	2	44													4.3	5
Sleepy	33142	1	44			1	44	,												2.7	5
Sleet	33144	2	64			2	66													3:1	5
Sleetch	33138	3	Outlets,				Plaste									,				4.0	00
Sleetch Sleetiness	33138	3	Outlets,	1	Main,	9	branen "													4.0	
				2		-	66													4.1	-
Sleety	33140	3		_		1									ı	٠					_
Slecvefill	33141	4	44	2	44	2	66							i						4.6	0
Steerehand	33143	1	66			1	44							,			,			3.0	0
Sleeveless	33145	2	44			2	66											 		3.4	0

Dimensions for Brick or Terra Cotta Work, inside diameter, 43 inches; depth, 21 inches. For Lath and Plaster Work, inside diameter, 43 inches; depth, 3 inches.

D. P. Porcelain Cut-Out Blocks for Above.

Sleid	7131	Round	Pattern	special	binding posts	 2.05
Steigh	720±	66	64	plain	44	 1.35
Sleighing	7121	Square	44	41 -	64,	 1.05
Sleight	7221	64	46	special	44 .	 1.20

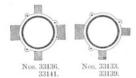


Nos. 32194.

No. 33142 and 33143.



Nos. 33134.



Code Word. List No.

List Price Each.

Branch Circuit Junction Boxes.

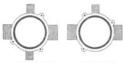
Single Tube System.

Medium Size-Complete wih Nipples.

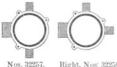
For Brick or Terra Cotta. WITHOUT COVER.



No. 32256, 32259.



Nos. 32247. Nos. 32241. 32245. 32244.



32248.

Right, Nos: 33 Left, Nos. 32254

Slid	32241	- 3	Outlets,	2	Main,	1	Branch		.39
Slidden	32247	4	64	2	44	1	66	1	.64
Stidder	32257	3	66	1	44	2	66	1	.30
Slide	32251	3	44	1	44	2	44		.39
Slidegroat	32258	3	"	1	66	2	66	Right	.39
Slider	32254	3	66	1	66	2	66	Left !	.39
Sliderest	32256	1	66			1	66	., 1	.00
Slideralce	32249	2	66			2	"		.18
			For Lat	h	and P	la	ster W	ork.	
Slitter	32244	3	Outlets,	2	Main,	1	Branch		.49
Slice	32245	4	66	2	66	2	66		.74
Sliver	32248	3	66	1	66	2	66		.49
Sloakan	32253	3	66	1	66	2	66	Right 1	.49
Slowing	32255	3	66	1	66	2	66	Left !	.49
Slout	32259	1	66			1	že.		.10

Dimensions: For Brick or Terra Cotta Work, inside diameter, 34 inches; depth, 11 inches. For Lath and Plaster Work, inside diameter, 31 inches: depth, 17 inches.

The Threaded Outlets for both depth of Boxes are placed so as to allow for the embedding of Conduit 16 of an inch under the surface of plaster for Terra Cotta or Brick work, and 3 of an inch for Lath and Plaster.

Porcelain Cut-Outs for Above.

Slobberer	7051	Double Pole Cut-outs for Two Branch Circuits.	.90
Sloberry	706±	Double Pole for One Branch Circuit only	.65

Branch Circuit Junction Boxes.

Single Tube System.

Small Size-Complete with Nipples.

For Brick or Terra Cotta Work.

WITHOUT COVERS.

Slock	32134	3	Outlets,	2	Mains,	1	Branch		1.20
Slot	32136	4	"	2	66	2	66		1.45
Slogun	32132	3	**	1	44.	2			1.20
Sloke	32133	3	66	1	66	2	66	Right	1.20
Sloo	32137	1	66	1	66	2	66	Left	1.20
Sloom	32046	1	66			1	66		.85
Shamer	32048	1.	66			9	- 66		1.10

Iron Armored Insulating Conduit—(Continued.)

Branch Circuit Junction Boxes-(Continued.)

Small Size-Complete with Nipples.-(Continued.)

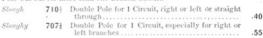


For Brick or Terra Cotta Work, inside diameter, 2½ inches; depth, 1½ inches. For Lath and Plaster Work, inside diameter 2½ inches; depth, 1½ inches.

For Diagram of Outlets, see Branch Circuit Junction Boxes preceding page.

Porcelain Cut-Outs for Above.

These Boxes being of small diameter, do not admit of using a Double Pole Cut-out for more than one Branch Circuit.



Branch Circuit Junction Boxes.

Double Tube System. Complete with Nipples.
For Brick or Terra Cotta.

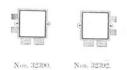
Code Word.	List No.		. 01 01	••		• •			•							1	Li	st	Pric	œ.
0000 110101																			Each.	
Sleightful	32390	4	Outlets,	2	Main,														4.5	50
Sleightily	32392	4	66	2	46	2	66												4.5	0
Sleightly	32396	6	-4	2	66	4	66						 						6.0	00
Stender	32400	6	**	2	64	4	66												6.0	00
Stenderly	32398	6	66	4	6.6	2	56												6.0	00
Slenderness	32402	6	- 46	2	66	4	_66									,			6.0	00
Slept	32394	8	"	4	66	4	- 66												7.7	5
			For	L	ath an	d	Plaster	٠.												
Slouth	32391	4	Outlets,	2	Main,	2	Branch					1			. ,				4.6	55
Sleuthhound	32393	4	66	2	6.6	2	66			:									4.6	55
Slew	32397	6	44	2	66	4	66				. ,								6.1	5
Slewed	32401	6	66	2	6.6	4	46												6.1	5
Sley	32399	6	44	4	44	2	44												6.1	5
Slibber	32403	6	66	2	66	4	66										- 54		6.1	5
Slice	32395	8	44	4	44	4	**			٠	 								7.9	0
					* (11)			,						. 1		2		٠	-1	

Inside Dimensions for Brick and Terra Cotta Work: length, $4\frac{3}{8}$ inches; width, $4\frac{3}{8}$ inches; depth, $2\frac{1}{2}$ inches.

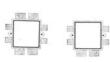
Inside Dimensions for Lath and Plaster Work: length, 43 inches; width, 43 inches; depth, 3 inches.

Porcelain Cut-Out for Above.

Slicer	717+	Complete with 6 Fuse Holders	2.05
Slick	7161	Fitted with Binding Screws, no Fuse Holders	.90
Slicking	6951	Fuse Holder, complete, extra heavy terminal, no fuse	.20
Slickness	6901	Fuse Holder, complete, regular terminal, no- fuse	.20

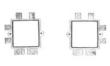


32391.



Nos. 32394. Nos. 32396. 32397.





Nos. 32400. Nos. 32402. 32401. 32403.



Nos. 32046 and 32072.



No. 32246 and 32073.



No. 32075 and 32079.



No. 32478.

Iron Armored Insulating Conduit--(Continued.)

Outlet Boxes.

With Fixture Support for Electric Only-Single Tube System.

	Small Size.
Code Word.	List No. List Price.
Sloop	32046 LOutlet Box, 21 inches diameter, 11 inches deep,
	and Cover, No. 527 \$1.40
Slop	32072 Dutlet Box, 24 inches diameter, and Cover, 524 1.40

For Lath and Plaster add 8c. on 21-inch and 10c. on 31 inch. Lath and Plaster Boxes are made 17 inches deep.

Porcelain Cut-Outs for Above.

Slope Slopeness		Outlet or Tap Cut-out, without leads Double Pole Porcelain Cut-out, without leads	.40
		Outlet Boxes. Large Size.	
Slopewise	32246	Outlet Box, 34-inch diameter, and Cover, No. 528	1.60
Sloping	32073	Outlet Box, 34-inch diameter, and Cover, No. 525	1.60
		Porcelain Cut-Outs for Above.	
Slopingly	7051	Double Pole Cut-Out for Two Branch Circuit	.90
Sloppiness	7061	Double Pole for One Branch Circuit only, right or left	.65
		VI ICIV	-00

Outlet Boxes.

Sloppy	32075₺	Outlet Bo	x, 21	inches diameter,	with Cover	1.40
Slopy	32079	Outlet Bo	x, 31	inches diameter.	with Cover	1.55

The Box is made for Brick Work. For Lath and Plaster Work add 10 cents to the above list. The ordinary form of "Bug" Cut-out can be used in these Boxes.

Outlet Boxes.

Outlet Box, Cover and Fixture Support-For Elecrtric Only. Double Tube System.

Dimensions of Boxes inside-Length, 34 inches; width, 34 inches.

Slot	32478	Outlet Box for Brick or Terra Cotta Work, depth	
		1½ inches	2.15
Slote	32479	Outlet Box for Brick or Terra Cotta Work, depth	
		2 inches	2.25
Sloth	32480	Outlet Box for Lath and Plaster Work, depth 2	
		inches	2.20
Slothful	32481	Outlet Box for Lath and Plaster Work, depth 24	
		Inches	2 20

The Fixture Support is threaded to receive a 3-inch (inside) Brass Insulating Joint. When necessary to fuse in this Box the regular Bug Cut-out can be employed. Covers are not included in above prices. Price of Cover 65 cents each.



No. 32496.

Iron Armored Insulating Conduit--(Continued.)

Outlet Boxes.

Outlet Box, Cover and Fixture Support—For Electric Only.. (Continued.)

Double Tube System.

Dimer	isions of	Boxes inside—Length, 31 inches, width, 21 inches.
Code Word.	List No	List Price Fach
Smarten	32496	Outlet Box for Brick or Terra Cotta Work, depth
Smartle	32497	14 inches
Smartly	32498	2 inches
Smartness	32499	inches
		inches 2.05

Extra Outlets for these Boxes will be supplied to order at the following list price: 22 cts. each.

Covers are not included in above prices. Price of Cover, 60 ets. Unless of otherwise specified in orders, Cover is supplied with Threaded Nipple for 4-inch (Brass) Insulating Joint or Coupling.

Porcelain Cut-Outs for Above.

No. 7704, Porcelain Cut-Out, designed for a Ceiling Pendant, can be used in a side Outlet Box for Portable Fixture of Fan Motor. The Cut-Out is made in two parts. The base is supplied with heavy terminals, forming the contact pieces, into which are placed the Binding Screws. Fuse Leads are arranged on the Porcelain plug, which can be removed when fusing. Contacts are sliding, connections quickly and easily made, and the Cut-out is adapted to all 24-inch boxes. The price does not include Box.

Smartweed	7701	Double Pole Porcelain Cut-out, without leads.	.65
Smash	7104	Outlet or Tan Cut-out	40

Combination Gas and Electric Branch Circuit Box and Cut-Out.

Single Tube System.

This Box is designed especially for Hotels, Office Buildings, Apartment Houses and other Fire-proof Buildings, where the Feeders are run between the Terra Cotta and floor boards, direct from the Cut-out Cabinets or Junction Boxes, to a center of distribution. This center may be located at the largest or most convenient electrolier of a suite or section of rooms, and the Box attached thereto. It will then supply the electrolier and two branches which are run on ceiling for side lights. The box, being but five inches in diameter, admits the use of an ordinary size fixture shell.

Cut-out No. 715} has Binding Posts for supply, that will carry Conductors up to No. 4 B, & S. Gauge. The Branch Terminals have been tested up to fifteen amounts.

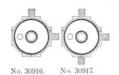
If over ten lights are required for an electrolier, we supply Porcelain Fuse Holders No. 6954, having double the carrying capacity and fit any of the Fuse Terminals. The Cut-out will fuse two Branch Circuits, which may be taken out at either side, or at right angles; at the same time fusing fixture. Unless otherwise specified in order, we supply Fuse Holder No. 6904.

Price includes Nipples.



Iron Box No. 30917.

No. 30913. No. 30914. No. 30915.



Iron Armored Insulating Conduit—(Continued.)

Combination Gas and Electric Branch Circuit Box and Cut-out Single Tube System .- (Continued.)

Iron Box-Lined.

Diameter, 51 inches; depth, 21 inches. Diameter, Gas Outlet, 11 inches. Diameter, Electric Outlet (inside) 1g inches.

Code Word.	List No.																		L	ist Price. Each.
Styboots	30913	1	Main,	1	Outlet							 								\$1.75
Slyly	30914	1	44	2	66	, .		,				 								2.25
Slyness	30915	1	66	2	66									,						2.25
Smack	30916	1	66	2	66							 								2.25
Smacking	30917	1	44	3	44	 	. ,					 			 			4		. 2.75

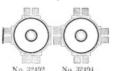
Other sizes of Outlets and combinations made to order.

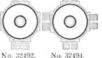
Porcelain Cut-Out.

Diamete	r, 43 inch	es. Height, with Adjustable Fuses, 13 inches.	
Smallage	715	Complete, with 6 Fuse Holders	2.05
Smallish	700±	Copper-tipped Fuses, 3 or 6 amperes	-05



No. 32486. No. 32488. No. 32490.





Combination Gas and Electric Branch Circuit Box and Cut-Out.

Branch Junction Box .- Double Tube System. Diameter, 54 inches; depth, 24 inches. Diameter Gas Outlet, 18 inches.

Smallness	32486	2	Mains,	2	Outlets												2.25
Smallpox	32488	2	46	4	66												2.75
Smalls	32490	2	46	4	44												2.75
Smally	32492	2	64	4	- 66	 											2.75
Smalt	32494	2	44	6	+4												3.25

Combination Gas and Electric Outlet Box with Cut-Out.

Single Tube System.

This Box is designed to be used for side Outlets on walls or partitions The diameter being small, a 4-inch Fixture Shell will cover it. Cover admits of ready access to Box, and when in place it effectually closes the Outlet against moisture. Cut-out No. 7181 is designed to fuse two Branch Circuits, is fitted with the adjustable Fuse Holders, or will be supplied with Binding Screws only, so that the ordinary copper-tipped fuse may be em-

If it is desired to fuse the fixture at which the box is located, the cover can be omitted, the ends of conduit sealed with compound, and the work thus made tight.

Specify in orders the size for Mains and Branches.



Smaltine	30911	As illustrated. Dimensions: Diameter, 3\mathbf{\xi} inches depth, 1\mathbf{\xi} inches	1.60
Smaragdine	30912	Plain Iron Cover, Insulated Lining	.25
		Porcelain Cut-Out.	
Smaragdite	718	Complete with four Adjustable Safety Fuses .	1.65
Smart	719	Cut-Out, without Adjustable Fuses, but having Binding Screws for Copper-tip Fuses	.85



Iron Armored Insulating Conduit—(Continued.)

Combination Gas and Electric Outlet Box with Cut-Out.

-(Continued.)

Double Tube System. Iron Box and Cover.

Code Word.	List No.		Price.
Smasher	30920	Diameter, 3g inches; depth, 1g inches. With	ach.
0. 71	22212	six Nipples	
Smatch	30912	Plain Iron Cover, Iusulated Lining	.25
		Porcelain Cut-Out.	
Smatter	718	Complete, with four Adjustable Safety Fuses	1.65
Smatterer	719	Cut-out, without Adjustable Fuses, but having	
		Binding Screws for Copper-tipped Fuses	.85

Combination Gas and Electric Ceiling Outlet and Branch Circuit Boxes.

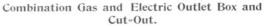
Single Tube Iron-Double Tube Brass.

The Box is of Iron, Insulated and designed to be placed at a chandelier outlet, and fed from the floor above by a single tube of Iron Armored Conduit $\frac{3}{4}$ of an inch inside diameter or less. Owing to the position and necessity of sinking the Box into the Terra Cotta ceiling, no threaded joint can be made, but an iron sleeve one inch in height is provided, into which the Conduit is inserted. The Center or Gas Outlet will admit the use of $\frac{3}{4}$ -inch (inside diameter) gas pipe. The short Iron Nipples are threaded for $\frac{3}{8}$ -inch coupling, on to which can be screwed combination coupling for $\frac{5}{4}$ or $\frac{3}{8}$ -inch Brass Armored Connuit.

Outside Dimensions—Diameter, 5½ inches; depth, 2½ inches. Diameter Gas Outlet, 1½ inches. Diameter Electric Outlet (inside), 1¾ inches.

Diameter Porcelain Cut-out, 4% inches; Height, with Adjustable Fuses, 1% inches.

Smattering	30504	1	Main,	1	Electrolier	and 2	1	Branches	 2.05
Smear	30505	1	44	1	66	4		66	 2.75
Smeardab	30506	1	66	1	44	4		66	 2.75
Smeary	30507	1	44	1	66	4		44	 2.75
Smeath	30508	1	"	1	14	6		44	 3.45

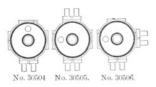


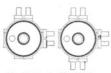
Double Tube Iron-Double Tube Brass.

For Direct Current Only.

Iron Box and Cover.

	non box and covers	
Smectite	32920 With four \$\frac{2}{3} inch Combination Nipples and two \$\frac{2}{3} inch Iron Insulated Nipples without cover	2.65
	Dimensions: Diameter, 3g inch; depth, 1g inch.	
Smatch	30912 Plain Iron Cover, Insulated Lining	.25





No. 30507. No. 32508.

Iron Armored Insulating Conduit—(Continued.)

Combination System.

Using Both Iron and Brass Armored Conduit.

Illustration showing the application of the Combination Coupling or "Connecting Link" between the two systems—Iron Armored Conduit and Brass Armored Conduit. The union if properly made, by the use of white lead on the iron threads and the crimping tool on the brass coupling, will be a pefect joint.

The illustration shows a Cross Section of Iron Armored Insulating Conduit and Brass Armored Conduit; the union being properly made. Both ends of insulation abut.

The demand for this system has arisen principally from its flexibility; also from the fact that the diameter of the Brass Armored Conduit is less than that of the Iron Armored. In modern fire-proof structures, the thickness of plaster ordinarily used on walls will always cover the β_c-inch Brass Conduit, and usually the β-inch, without having to channel the walls. This channeling being a considerable item in the general expense of the installation, the labor thus saved is an important consideration where the specifications do not provide for "Furring" or a sufficient thickness of plaster to cover the Iron Armored Conduit,

Combination Couplings are necessary in connecting the Brass Armored Double Tube System to the Single Tube Iron System, at Junction Boxes, Cut-out Cabinets, etc., and when the Feeders or Risers are run in separate Brass Armored Conduits on account of their size, or to avoid induction when the Alternating System is employed.



No. 205‡. Combination Coupling.

No. 32640.



No. 32641.



No. 32642.

Combination Coupling.

Code Word.	List No.				1	ist Price.
Snod	2051	g-inch	Iron Nipple to	§-inch	Brass Coupling	
Snood	2061	g-inch	66	g-inch	"	.12
Snook	207	3-inch	44	3-inch	66	.14
Suonze	2081	1-inch	44	1-inch	46	.17
Snore	2091	14-inch	44	14-inch	66	.21
Sanrer	2104	14-inch	44	14-inch	66	.27

Angle and Corner Insulating Boxes.

Single Tube System.

For Splicing or "Pulling-in" Conductors.

Snort	32640	Iron Insulated	Box,	with	Two Nipp	des,	\$1.85
Snorter	32641	Iron Insulated	Box,	44	44		1.85
Snout	32642	Iron Insulated	Box.	66	66		1.85

Above prices include Plain Iron Covers and Screws fitted; also Nipples. Specify size of Nipples.

Iron Armored Insulating Conduit-(Continued.)

Angle and Corner Insulating Boxes-(Continued.)

Single Tube System—(Continued.)

Dimensions.

The above Boxes are made for Brick or Terra Cotta Work, the Nipples being placed fr of an inch from rim of Box, to allow for plaster to cover Conduit. Covers are made of thin iron, and extend ‡ of an inch over rim of Boxes.

Double Tube System-Double Iron.

For Splicing or "Pulling-in" Conductors.

Code Word,	List No.							st Price. Each.
Snouty	32643	Iron	Insulated	Boxes,	with	four	Nipples	
Snow	32644	"	44	46	".	44	44	 2.25
Snooball	32645	**	"	"	44	"	"	 2.25

The above prices include Plain Iron Cover and Screws fitted. These Covers extend 4 inch over the rim of Box.

For Boxes with § inch Nipples, add 10 cents to above list prices for each Nipple.

Dimensions.

No. 32643 – Inside each angle, length, 3 ins.; width, $2\frac{1}{2}$ ins.; depth, $1\frac{1}{2}$ ins. Same style as No. 32642.

No. 32644 $\,$ Inside each angle, length, 3 ins.; width, 2½ ins.; depth, 1½ ins. Same style as No. 32640.

No. 32645 Inside each angle, length, $3\frac{1}{4}$ ins.; width, $2\frac{1}{4}$ ins.; depth, $1\frac{1}{4}$ ins. Same style as No. 32641.

These Boxes are made for Brick or Terra Cotta work, the Nipples being placed $\frac{\pi}{18}$ of an inch from rim of Box to allow plaster to cover Conduit.

Single Tube Iron-Double Tube Brass.

For Direct or Alternating Currents.

Summing	30646	Iron Insulated Box, with one Iron and two Combination Couplings fitted. Same style as No.	
		32642	2.25
Snowderp	30647	Iron insulated Box, with one Iron and two Com- bination Couplings fitted. Same style as No.	
		32640	2.25
Suowdrift	30648	from Insulated Box, with one from and two Com- hination Couplings fitted. Same style as No.	
		32641	2.25

The above prices include plain iron covers and screws—fitted, If $\frac{1}{16}$ -inch brass Conduit is to be used please state so in ordering.

Iron Armored Insulating Conduit—(Continued.)

Angle and Corner Insulating Boxes-(Continued.)

Double Tube Iron-Double Tube Brass. List No. List Price. Code Word 30649 Iron Insulated Box, with two Iron and two Com-Snowdrop bination Couplings fitted. Same style as No. 2.45 32642 Snmoflake 30650 Iron Insulated Box, with two Iron and two Combination Couplings fitted. Same as style No. 32640 2.45 Snowfleck 30651 Iron Insulated Box, with two Iron and two Combination Couplings fitted. Same style as No. 32641 2.45

The above prices include Iron Covers and screws fitted.

If 15-brass Conduit is to be used, please state so in ordering.

The above Boxes are made for Brick and Terra Cotta Work, Nipples being placed & inch from Rim of Box.

Switch Box for Cutter and Other Flush Switches.

For Single Tube System.

The Box, as illustrated, is designed for a Single Pole Flush Switch. We manufacture these Boxes for all makes of Flush Switches, either Single Pole, Double Pole and for Three or Four Wires.

Where the installation is to be made before the partition walls are erected, we place the Outlets near the rear edge, on top, to clear the front wall of the terra cotta brick.

Snowflood	30981	Box with one	Nipple	\$1.00
Spantagive	30986	Gang Switch	Boxes Prices on application.	

For Double Tube System-Iron Armored.

Snowless	30983	Box, with two Nipples	1.25
Samenton		Gang Switch Roy Prices on application	

For Double Tube System-Brass Armored.

Snowshoe	30984 B	ox	with two	(Combinati	on Nipp	les.	,	1.45
Outside	Dimension	8:	Height,	4	inches;	Width,	21	inches;	Depth, 31
inches.									

Snowstorm 30987 Gang Switch Boxes. Prices on application.

Outlets are placed 15 of an inch from rim for Brick or Terra Cotta work and 3 of an inch for Lath and Plaster. Switches extra.



No. 30981.

Iron Armored Insulating Conduit—(Continued.)

Combination Gas and Electric Side Outlet Box.





Unless otherwise specified all Boxes will be tapped for §-inch gas pipe.

These Boxes are designed to be used for side outlets on walls or partitions. The diameter being small, a 3½-inch fixture shell will cover them. The hole on back of Box is tapped to receive a g-inch gas pipe. The thread on gas pipe must be cut back so that the pipe will project through the Box a sufficient length to allow an insulating joint to be serewed on. All Boxes of this type are porcelain lined.

Outlets are placed so as to leave $\frac{\sigma}{2}$ of an inch for the hard finish of walls, between the outlets and front rim of Box for brick and terra cotta work, and $\frac{\sigma}{2}$ of an inch for lath and plaster.



Nos. 30682, 30683.

Outlet or Switch Box.

Double Tube System Complete with Nipples.

Code Word.	List No.							Li	st Price. Each.
Saub	32404	Box for	r Terra Cotta or	Brick	work,	2	outlet		
Saubnose	32405	66	+6	64	44	4	46		1.70
Shubpost	32406	44	44	+4	66	4	44		1.70
Snudge	32407	66	Lath and Plaste	r	66	2	66		1.25
Snuff	32408	66	66		44	4	44		1.80
Snuffbox	32409	44	66		44	4	66		1.80

Inside dimensions for Brick or Terra Cotta: Length $2\frac{1}{2}$ in., width $2\frac{1}{7}$ in., depth $1\frac{\pi}{4}$ in.

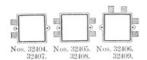
Inside dimensions for Lath and Plaster: Length 2½ in.; width 2½ in., depth 2½ in;

Outlets are placed $\frac{\pi}{16}$ of an inch from rim of Box for Brick and Terra Cotta work and $\frac{\pi}{2}$ of an inch for Lath and Plaster.

This Box, being but 2½ inches square, is especially adapted for use with flush switches,



No. 32404 and 32407.



List Price.

.40

.35

.55

.50

.55

.60

.55

.15

.20

.30

Code Word. List No. Scaffold

Scagliola

Scalable

Scalade

Scaldic

Scale

Scalene Scaliness

Scall

Scallion

Scallop Scalloped

Scalp

Scald



No. 21515.



Covers for Iron Armored Branch Junction or Outlet Boxes.

66

21525 521, Plain Cover for 21 inch Round Box . . .

21528 524, Cover with Nipple, Female Thread, for 21

21526 522, " " " 31 " " "

21527 536, " " " 43 "

21516 541, Nickeled "

21517 538, Bronzed

21518 546, Nickeled

21519 547, Bronzed

21520 548, Nickeled

21521 549, Bronzed 21522 551, Nickeled

21523 539, Bronzed

21524 543, Nickeled

21515 537, Bronzed Polished Covers for 21 in. Round Box, \$0.35

66 21

31

31

21

21

31

48

48

. 31

Interior Conduit—(Continued.)

Iron Armored Conduit-(Continued.)



No. 21528



No. 21534.



No. 21532.



No. 21530.





		inch Round Box	.55
Sealpel	21529	525, Cover with Nipple, Female Thread, for 31	
		inch Round Box	.60
Scaly	21530	527, Cover with Nipple, Male Thread, for 21 inch	
		Round Box	-50
Scamble	21531	528, Cover with Nipple, Male Thread, for 31 inch	
		Round Box	.60
Scambler	21532	530, Cover with Rubber Bushing for 21 in. Round	
Detemotor	21002	Box	.35
Scammony	21522	531, Cover with Rubber Bushing for 31 in. Round	.33
Scientinony	21000		40
	01504	Box	.40
Scamp		533, Cover for Receptacle for 24 inch Round Box.	.20
Scamper	21535		.25
Sketch	24057	912, Plain Iron Cover, insulated lining	.25
	Cover	rs for all Boxes have an Insulating Lining.	
	Tools	for Inon Assessed Conduit	
	1 0018	s for Iron Armored Conduit.	

Comstock Pipe Cutters.

Scandal	21537	Cuts from	720	inch	to	1	inch								 	1.20
Scandalize	21538	44	3	66		2	44						 			1.60
Scandalous																

Butt Reamer.

This Reamer is fitted for use with ordinary brace. It should be used after a cut has been made to remove the "burr" from Iron Armor and to true up the end of Conduit. This operation should be performed before the thread is cut.

No. 21540.

Scandalously 21540 Size of Conduit # to 12 inch 1.50

Brass Armored Conduit.

For Direct and Alternating Currents.

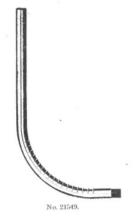
This is plain conduit with a brass armor or covering drawn upon it. We furnish this tube for better protection against mechanical iojury and the destructive action of the alkalies of 'cement, where used under tile floor's or in like exposed places. When polished it will be found unequaled for surface work in the matter of finish and accessibility.



Code Word.	List No.													1	Li	st l	Price 00 Ft
Concretice :	3981	16	inch,	inside	diameter	٠.										\$	4.95
Concreture	3982	38	66	44	66												5.68
Concur	3983	1	66	66	"												6.88
Concurrence	3984	6	66	66	66												7.90
Concurrency	3985	3	- 11	66	44												9.28
Concurrent	3986	1	44	66	66											1	2.22
Concurring	3987	11	44	44	44											1	4.95
Concuss	3988	11	44	66	66											2	5.25

No. 114 Brass Armored Elbow.

		Inside Diameter inches.	Outside Diameter Inches.	Radius Inches.	Length over all Inches.	Per 100 Pieces.
Scandent	21541	756	.495	31	42	6.60
Scansion	21542	3	.625	4	51	8.00
Scansorial	21543	1/2	.730	41	6	10.20
Scant	21544	B	.792	41	64	11.80
Scantily	21545	4	1.000	6	74	15.60
Scantiness	21546	1	1.230	9	11+	27.85
Scantling	21547	11	1.540	10	137	38.35
Scantly	21548	11	1.875	12	154	57.10



No. 116 Brass Armored Long Elbow.

		Inside Diameter inches.	Outside Diameter Inches.	Radius inches.	Length over all Inches.	Per 100 Pieces.
Scantness.	21549	76	.490	34	172	16.00
Scanty	21550	R	.625	4	172	17.75
Scupe	21551	3	.730	45	18	18.75
Scapement	21552	8	792	.44	18	20.25
Scapula	21553	2	1.000	6	19	26.25
Scapular	21554	1	1.230	81	23	41.00
Scapulary	21555	11	1.540	94	26	55.00



Brass Armored Conduit-(Continued.)

No. 114½ Brass Covered Short Elbow, with Attached Coupling.

Code Word.	List No												Li	st Price. er 100.
Immoderate	1404	15	inch,	inside	diameter									
Immodest	1405	3	66	66	44	 								21.50
Immodestly	1406	1	44	66	66									25.60
Immolate	1407	5	44	66	66	 								30.00
Immoluted.	1408	3	66	66	66	 								43.00
Immolating	1409	1 .	66	66	44	 								63.00

No. 116½ Brass Covered Long Elbow, with Attached Couplings.

Immovably	1417	15	inch,	inside	diameter	 								26.0
Immure	1418	3	66	66	.66									28.7
Immuring	1419	1	66	14	66									31.7
Impair	1420	8	44	44	66									36.2
Impaired	1421	3.	66	4.6	. 66									49.2
Impairer	1422	1	44	66	66									71.0

No. 117½ Brass Covered S Elbow, with Attached Couplings.

Impartment	1430	5	inch,	inside	diameter										25.75
Impeach	1431	8	66	66	46										28.25
Impeached	1432	1	66	66	66										33.00
Impeacher	1433	5	44	66	66										38.50
Impeaching	1434	3	66	66	66										50.50
Impecahment	1435	1	66	66	66										64.00

No. 115½ Brass Covered T, with Attached Couplings.

Igniting	1443	Mains	370	inch,	branch	16	inch									90.7	5
Ignition	1444	66	1	66	44	3	66									95.0	0
Ignoble	1445	46	5	"	66	8	44								1	00.0	0
Illbred	1446	44"	58	**	44	1.	v								-	14.0	0
Itlicit	1447	66	2	66	66	8	66								1	32.0	0
Illicitly	1448	44	1	44	66	ä	"								-	67.0	0



No. 21556.



No. 21563.



Brass Armored Conduit--(Continued.)

No. 117 Brass Armored S Elbows.

Code Word.	List No.	Inside Diameter inches.	Outside Diameter inches,	Offset inches.	Length over all inches.	List Price Per 100.
Sear	21556	10	.495	4	9	15.75
Scarred	21557	3	.625	4	101	17.25
Scarring	21558	+	.730	4	11	20.00
Searce	21559	8	. 792	4	11	22.50
Scarcely	21560	3	1.000	4	111	27.50
Seurceness	21561	1	1.230	4	16	34.00
Scarcity	21562	11	1.540	4	17	50.00

Terminal or Outlet Elbows.

These Elbows are made with a sharp bend and are especially adapted for Fixture Outlets. These Elbows are trimmed back # of an inch; this trimming will be done without extra charge when so ordered, or can be readily accomplished by use of Universal Trimmer.

The radii of curves in these Elbows are much smaller than No. 21541, and they will be found better adapted for use at outlet.

No. 118 For Brick and Tile Work.

		Diameter inches.	Offset inches.	Length inches.	
Scare	21563	ŧ	1 ±	57	10.30
Scarecrow	21564	15	1 ½	53	11.35
Scarf	21565	3	1±	7	12.40
Scarfed	21566	+	13	8‡	12.60
Scarfing	21567	8	2	9	13.70
Searfskin	21568	4	2.	103	15.30

No. 119 For Lath and Plaster.

		Diameter inches,	Offset inches.	Length inches.	
Scarifier	21569	4	3	5.7	10.30
Scarify	21570	16	3	54	11.35
Scarlatina	21571	2	3	7	12.40
Scarlet	21572	-4	34	81	12.60
Seurp	21573	R	3 ‡	9	13.70
South	21574	2	4 1	101	15.30

No. 21575.

Interior Conduit.—(Continued.)

Brass Armored Conduit-(Continued.)

Special Elbows.

No. 511.

Code Word.	List No.	Diameter Inches.	Radius of Bend. Inches.	Offset. Inches.	List Price. Per 100
Scuthe	21575	15	3	8½	\$13.20
Scathful	21576	H	3	9	16.00
Scathless	21577	3	4	111	20.40
Seatter	21578	9	4	12	23.60
Scattered	21579	3	5	14	31.20
Scattering	21580	1	7	21	55.70
Scarenger	21581	11	9	24	64.70

No. 518.

		Diameter Inches.	Bend. Inches.	Offset Inches.	
Scene	21582	7 ⁵ c	3	71	13.20
Sceneny	21583	3	3	8	16.00
Scenic	21584	1/2	4	101	20.40
Scenical	21585	9	4	11	23.60
Scenographi	21586	2	5	$12\frac{1}{2}$	31.20
Seenography	21587	1	7	20	55.70
Scent	21588	11	9	23	64.70

List for Additional Length of Straight Run.

		Diameter. Inches.															Per Foot
Scentless	21589	75			 				 								-05
Scepter	21590	8							 . ,								-06
Sceptered	21591	1															-07
Sceptic	21592	8															.08
Schedule	21593	4							 								-09
Schemation	21594	1							 								.12
Schematist	21595	11															-15



No. 21582.

Return Elbows.

No. 515.

		Diameter Inches.	Radius of Bend. Inches.	Distance between sides. Inches.	Per 100.
Scheme	21596	16	3	6	13.20
Schemer	21597	8	4 -	8	16.00
Schemist	21598	1	4 ½	9	20.40
Schism	21599	8	5	10	23.60
Schismatic	21600	2	6	12	31.20
Schist	21601	1	7	18	55.70
Schitose	21602	11	9	22	76.70

List No.



No. 21604.

Interior Conduit—(Continued.)

Brass Armored Conduit-(Continued.)



Couplings.

No. 21604—After use of Coupling Tool.

THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	DESCRIPTION OF	Bourse	ST TO STATE OF THE PARTY OF THE
Chattering Statement (1962)	BOUTHOUS PUR	PERMITTER	CONTRACTOR OF THE PARTY OF
DEMERSON OF THE PARTY OF THE PA	100 C	220000000	et suintel to
		EARTH	

No. 21612-	-Cross Section—Before Coupling Tool.	using
------------	---	-------

couplings.

List Price. Per 100.

No. 1031/2, Plain.

Schistons	21603	5	inch	Seamless	Brass,	25	inches	long		 \$2.00
Scholar	21604	1	44	44	66	24	66	66		 2.00
Scholarly	21605	1	44	44	44	25	44	44		 2.25
Scholastic	21606	å	44	44	- 66	25	66	66		2.35
Scholiast	21607	3	44	44	44	24	66	66		3.25
Scholium	21608	1	66	44	66	31	44	66		 4.45
School	21609	11	44	44	66	34	44	66		 7.35
Schooling	21610	$1\frac{1}{2}$	"	66	44	34	66	. 66		 12.00

No. 103, Insulated.

No. 21612—After use of Coupling Too	1	No.	21612 -	-After	use	of	Cour	ling	Too
-------------------------------------	---	-----	---------	--------	-----	----	------	------	-----

Schooner	21611	10	inch	Seamless	Brass	 		 			. ,					3.	6	J
Schort	21612	38	"	44	66											3.	91	J
Sciatic	21613	+	- 66	66	66		,									4.	3	ď
Sciatica	21614	9	66	44	44											4.	7	5
Science	21615	2	**	44	44				,							7.	51	ď
Scientific	21616	1	- 64	44	44			 								8.	6	J
Scilicet	21617	11	66	44	46										. 1	2.	5(J
Accountbook	25483	14	11	44	.11										4	9.	0	J

Sizes given with above Couplings are those of the inside diameter of the Conduit Tubes for which they are intended.

Sheet Brass Clips for Conduits.



No. 1573.

1573 1 inch per gross Indented 1574 16 " .50 8 " 66 India 1575 .65 1 11 .80 1576 .90 1577 1.00 1578 1.40 Indignation 1579 Indignity 1580 11 " 2.00

Twisted Wire Clips for Conduits.



No. 1581.

Indirect	1581	Size	A, 4	inches lor	g, for tul	oes up	to §	inc	h, inclusive,	per 1,000					4.00
Indirection	1582	14	B, 7	- "	44	44	1		"	"					5.00
We re	commen	d for	use	with these	Wire Cl	ips Fla	t H	ead	Nails, which	we will	furnish	at the	followi	ng net p	rices:
															0.0

List Price.

List No.

Code Word.



No. 1449.

$Interior\ Conduit-({\it Continued}).$

Branch Circuit Junction Boxes—Plain and Brass Covered.

Illiterate	1449	No.	46,	100	inch	branches,	plain,	each			\$0.30
Illjudged	1450	4.4	46,	į	**	**	* 44	**			.30
Illogical	1451	4 =	46,	800		4.0	brass	covered,	each.		.50
Illude	1452	**	46,	1/2	**	**	**	4.6		٠,	.50



No. 1453.

Image	1453	No.	40,	550	inch	branches,	plain,	eac	1				 	.33
Imaged	1454		40,	100	**	**	++	11	٠.				 	.33
Imbecile	1455		40,	4726	**	4.6	11	44					 	.33
Imbecility	1456	**	40,	0,0	**	**	brass	cove	ered	, (ac	sh		.55
Imbed	1457	**	40,	į	4.4	**	**				**			.55
Imbedded	1458	**	40,	ŝ	**	- 11	"	4						.55



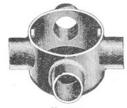
No. 1459.

Imbedding	1459	No.	42,	alo	inch	branches,	plain,	each			.33
Imbiber	1460	44	42,	ł	**	**	44				.33
Imbibing	1461	4.6	42,	å	**		**	**			.33
Imbitter	1462	11	42,	spe	**	41	brass	covered	, eac	h	.55
1mbittering	1463	1.1	42,	1	66	44	4.6	**	11		.55
Imbittered	1464		42,	5	6.6	44	44	**	4.6		.55
	Imbiber Imbibing Imbitter Imbittering	Imbiber 1460 Imbibing 1461 Imbitter 1462 Imbittering 1463	Imbiber 1460 " Imbibing 1461 " Imbitter 1462 " Imbittering 1463 "	Imbiber 1460 " 42, Imbibing 1461 " 42, Imbitter 1462 " 42, Imbittering 1463 " 42,	Imbiber 1460 " 42, ½ Imbibing 1461 " 42, ½ Imbitter 1462 " 42, ½ Imbittering 1463 " 42, ½	Imbiber 1460 " 42, ½ " Imbibing 1461 " 42, ½ " Imbitter 1462 " 42, ½ " Imbittering 1463 " 42, ½ "	Imbiber 1460 " 42, ½ " " Imbibing 1461 " 42, ½ " " Imbitter 1462 " 42, ½ " " Imbittering 1463 " 42, ½ " "	Imbiber 1460 " 42, ½ " " " " Imbibing 1461 " 42, ½ " " " Imbitter 1462 " 42, ½ " " " brass Imbittering 1463 " 42, ½ " " " " "	Imbiber 1460 "42, \(\frac{1}{2} \)" """	Imbiber 1460 " 42, ½" " " " " " " " " " " " " " " " " " " "	Imbiber 1460 " 42, \frac{1}{2}" " " " " " " " " " " " " " " " " " " "



No. 1465.

Imbody	1465	No.	41, §	inch	branches,	plain,	each		.35
Imbosom	1466	* 1	41, 1	44	**	4.4	**		.35
Imbound	1467	6.6	41, §	++	4+	++			.35
Imboro	1468	6+	41, 8	11	4.6	brass	covered,	each	.55
Imbowed	1469	6.4	41, 1	4.6	1.6	44	11	**	.55
Imbowing	1470	. "	41, 5	**	11	**	**	"	.55



No. 1471

Imbosoment	1471	No.	47,	8	inch	branches,	plain,	each	 	
Imbox	1472	1.6	47,	1	**	**	41	**	 	
Imitable	1473	4.4	47,	500	1.1	6.4	4.6	"	 	
Imitate	1474	4.6	47,	8	11	**	brass			
Imitation	1475	+ 4	47,	1	**	64	**	44	51	
Imitating	1476	6.6	47,	ģ.	11	**	**	44	11	

Immaturity

Immense

Immensely

Immensity

Immemorial 1485 § "

1486 1 "

1487 5 "

1488 # "

Interior Conduit—(Continued).



No. 1477.



Branch	Circuit	June	ction	Boxes-Plair	and
	I	Brass	Cove	red.	
Code Word.	List No.				List Price.
T	1477 37 4	0 0 1 1	1	- 1-11	60.40

Imitative	1477	No.	49,	8	inch	branches,	plain,	each		50.40
Imitator	1478	6.6	49,	ł	4.4	41	64			.40
Immaculate	1479	66	49,	age.	4.4	11	* 6			.40
Immanacle	1480	* *	49,	986	+1	4+	brass	covered,	each	.65
Immature	1481	4.4	49,	1	4.4	4 +	.**	44	"	.65
Immatured	1482	1.6	49,	oge	**	4.4	**	44		_* 65

Immaturely 1483 1 inch branches, plain, each 1484 15 " " " "

" brass covered, each.....

66

.35

.55

.55



No. 1483-Two Outlets.

	1	
ENGLY, III	1	
	100	



No. 1489-Four Outlets.





No. 1495-Four Outlets.

AA

No. 1501-Six Outlets.

Implacable	1489	1	inch	branches,	plain,	each				 			
Implacably	1490	15	**	44	4.6	**				 	 		
Implant	1491	8	**	**	4.6	* 4				 			
Implicated	1492	1	1.6	**	brass	cover	ed,	eac	h				
Implicating	1493	15	**	+4	**			1.6					
Implication	1494	용	11	4.6	41	4.6		4.0					

Implicative	1495	1	inch	branches,	plain,	each				
Implicit	1496	rio Tio	11	4.6	**	**				
Implicitly	1497	8	4.6	4.6						
Implunge	1498	ł	**	4.4	brass	covered	. eac	h		
Imply	1499	10	**	**	**					
Implying	1500	50		**	6.6	4.4	- 4			

Impocket	1501	1 incl	branches,	plain,	each				
Impoison	1502	10 "	**					 	
Impoisoned	1503	8 **	**	+6					
Impolicy	1504	1	4.1	brass	covered,	each	1	 	
Impolite	1505	18 ··	41			**			
Impolitely	1506	å ··	**	**		. * *			

.15

.20

.25

.30

.30

.40

Interior Conduit—(Continued).



No. 1507-Eight Outlets.

Branch Circuit Junction Boxes-Plain Brass Covered

			\sim	1433	DOVE	icu.					
Code Word.	List No.									L	ist Price.
Impolitic	1507	1	inch	branches,	plain,	each				 	\$0.50
Impoliticly	1508	16	**	**	**	"				 	.50
Import	1509	音	63	44	4.4					 	.50
Importable	1510	1	4:	64	brass	covered	eac	h.,	,	 	.70
Importance	1511	15	44	11	1.6	6.6	61			 	.70
Important	1512	8	**		4.4	4.4	. 6			 	.70



No. 1513-Two Outlets.

Importantly	1513	1 inc	h branches,	plain,	each		 	 	.33
Importation	1514	15 "	44	**	"		 	 	.33
Imported	1515	8 "		44			 	 	.33
Importer	1516	ł "	61	brass	covered,	each	 	 	.55
Importing	1517	16 "	**	**	**	**	 	 	.55
Importune	1518	8 "		**	**	64	 	 	.55

Killing

Kiln Kilt Kimbo

Kindle

Kindled

Kindred

Kingbird Kingeraft



Fancy Cover, Regular.

No. 63.

Plain Cover,

Regular.



No. 597. Fancy Cover, With Rubber Bushing.



No. 66. Plain Cover, With Rubber Bushing.

Metal Covers for Branch Boxes.

63	Dipped brass,	each	١.													
66	**	4.5						. ,								
60	**	4.											. ,			
597	**	1.1			 											
599	**	**								 						
857	4.6	4.4													,	



1280



No. 857 Fancy Cover, With 24 inch Holder.



	No.	599.
	Fancy	Cover,
Vith	Nozzle	for Sockets.

1273	Black	Iron,	each.	 .06
274	**	**	" .	 .11





Fig. 1.



No. 21626.



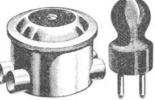
No. 21628.





No. 21630.

No. 21632.



No. 21633.

No. 21635.

Scissors Scientic Scoff Scold Sconce Scoop

Scope

Interior Conduit—(Continued.)

Polished Brass Armored Conduit.

For Exposed Surface Work.

For this purpose the regular Brass Armored Conduit Elbows and Fittings are highly polished and coated with a fine quality of lacquer. The Conduit can be held directly on the surface of the walls by polished brass clips. This class of work has been largely used in buildings that were not originally wired for electric light, and presents a very neat appearance.

Code Word.	List No.												L	is	Price	
Seimiter	21618	15	inch	inside	diameter									\$	9.9	5
Scimitar	21619	3	64	66	44										10.6	3
Scintillant	21620	à	44	66	66						 ,				11.8	8
Scintillate	21621	5	66	44	66			 							12.9	Ú
Sciolism	21622	3	66	66	66										14.2	В
Scion	21623	1	44	44	44										20.2	2
Scirrhus	21624	11	66	66	6.6										24.9	5
Scission	21625	$1\frac{1}{2}$	44	44	**											

Sockets and Receptacles for Conduit. Branch Boxes.

Figure 1 shows the complete Socket and Receptacle inclosed in Branch Box, in which it is held in position by the Brass Cover, No. 21628, and the Rubber Screw Ring, No. 21632; the Dummy Plug, No. 21630, of wood or hard rubber is also shown. The whole is arranged so that no part projects beyond the cover itself or its edge. This has been done with special reference to the use of the device as a Floor Receptacle, and is an advantage in any place where it may be used.

	E:	ach.
21626	Socket with porcelain base including cut-out	.75
21627	Receptacle with porcelain base without cut-out	.65
21628	Cover for No. 21626 and 21627, brass, plain	.15
21629	" " 21626 " 21627, " polished	.25
21630	Dummy plug to protect contacts when Socket or	
	Receptacle is not in use, wood	.15
21631	Dummy plug, made of hard rubber	.50
21632	Hard rubber screw ring for Nos. 21626 and 21627	.10

Attachment Plug and Receptacle.

Scorbutic	21633	Receptacle, including cover to fit Branch	
100000000000000000000000000000000000000		Boxes, polished brass	2.75
Score	21635	Attaching plug, hard rubber	2.75

Plain Conduit.

Since the introduction of Armored Conduits there has been an increased demand for the plain conduit in making installations for electric bells, telephones, telegraph, district messenger and other sytems employing low tension currents.

All tubes and elbows are cut squarely, thoroughly reamed and tested for obstructive matter by passing a test line through them, thus reducing labor of installation and waste material to a minimum.



List No.							List Price, Per 100 Ft.
3971	1	inch,	inside	diameter,	grade	1	\$2.25
3972	15	44	66	66	66	1	2.25
3973	3	44	44	+4	44	1	2.75
3974	5	66	14	44	44	1	3.75
3975	2	64	**	44	46	1	. 4.25
3976	1	66	6.6	44	44	1	5.25
3977	11	66	11	44	14	1	8.00
3978	13	44	**	44	64	1	12.50
3979	2	4.1	44	44	+6	1	20.00
3980	$2\frac{1}{2}$	44	66	66	44	I	32.00
	3971 3972 3973 3974 3975 3976 3977 3978 3979	3971	3971 ‡ inch, 3972 ½ " 3973 § " 3974 § " 3975 ‡ " 3976 1 " 3977 1‡ " 3978 1½ " 3979 2 "	3971 4 inch, inside 3972 % " " " 3973 8 " " " 3974 8 " " " 3975 4 " " " 3976 1 " " " 3977 14 " " 3978 14 " " 3979 2 " "	3971 ‡ inch, inside diameter, 3972 ½ " " " 3973 ¾ " " " 3974 ‡ " " " 3975 ¾ " " " 3976 1 " " " 3977 1‡ " " " 3978 1½ " " "	3971 ‡ inch, inside diameter, grade 3972	List No. 3971 ½ inch, inside diameter, grade 1

 $\ensuremath{\frac{1}{4}}$ inch size in six foot lengths; all other sizes in ten foot lengths.



No. 110, Standard Short Elbow.

Impearling	1338	1	inch	inside	diameter							Per 100. 5.50
Impede	1339	10	66	44	44							
Impeded	1340	3	66	44	**							5.60
Impeding	1342	98	44	**	**							7.50
Impeditive	1343	2	61	64	66							10.00
Impel	1344	1	44	44	4.6							13.00
Impelled	1345	1}	14	64	11							25.00
Impellent	1346	13	9.6	6.6	,16							47.00

Larger Sizes Furnished to Order.



No. 112, Plain Long Elbow.

Impenned	1354	1	inch,	inside	diameter							15.50
Impenning	1355	10	66	66	46							16.00
Imperceptible	1356	3	64	64	66							17.75
Imperfection	1358	98	44	14								19.75
Imperfectly	1359	9	44	1.4	11							21.75
Imperfectness	1360	1	60		6.6							25.00
Imperforate	1361	11	66	64								32.50

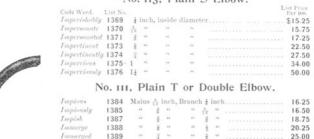
Immerging



Interior Conduit.—(Continued.)

Plain Conduit -- (Continued.)

No. 113, Plain S Elbow.



No. 110½, Plain Short Elbow, with Attached Couplings.

‡ " 35.00

Immeshing	1397	1	inch,	inside	diameter									13.30
Imminent	1398	10	66	64	41									13.30
Immingle	1399	3	44	44	44									13.50
Immix	1401	5	66	44	44									18.50
Immixed	1402	1	66	44	64									22.00
Immixing	1403	1	44	+6	66									30.00

No. 112½, Plain Long Elbow, with Attached Couplings.

Immolation	1410	1	inch,	inside	diameter									23.50
Immoral	1411	10	16	46	44									24.00
Immorality	1412	8	66	66	61									25.75
Immortality	1414	â	. 44	44	44									30.00
Immortalize	1415	3	44	66	66									34.00
Immovable	1416	1	61	46	44									41.00

No. 113½, Plain S Elbow, with Attached Couplings.

Impairing	1423	1	inch,	insi	de diameter						23.00
Impule	1424	10	44	66	66						 23.60
Impalement	1425	H	44	+6	66						25.50
Impartial	1427	á	66	. 66	66						 31.00
Impartible	1428	7	44	64	66	 					 39.75
Imparting	1429	1	44	66	16						 50.00

No. 1111/2, Plain T, with Attached Couplings.

Impearl	1436	Mains	10	inch,	Branch	1	inch.								26.25
Impearled	1437	66	77	66	44	10	46							. ,	27.90
Idolize	1439	66	â	44	66										29.50
Igenous	1440	66	â	66	66	1	64								32.25
Ignite	1441	66	4	66	66	Ř	66								34.50
Ignited	1442	66	1	66	66	2	4.4								41.00





No. 1410.

			5	Staple	Drivers.	
	Code Word. Indispose Indisposed Indisposing	List No. 1583 1584 1585	16 " 8 "	"	iet	\$0.10 .11
	Indistinct	1586	1 "			.14
	Indistinctly	1587	\$ "			.16
	Indorse	1588	1 "			.18
No. 1583.	Indorsed	1589	1			.20
	Indorsement	1590	11 "			.24
			(Coupli	ng Tool.	
THE PART OF THE PARTY OF THE PA	Indorser	1591	1 inc	ch cach	net	.90
THE PARTY OF THE P	Induce	1592	5 ·			.90
3	Induct	1593	8 4			1.00
	Inducted	1594	1 .			1.20
	Inducting	1595	4			1.25
ALCON TO SERVICE STATE OF THE PARTY OF THE P	Inductive	1596	4 .	1 66		1.50
	Inductor	1597	1 .	4 14		1.75
AND DESCRIPTION OF THE PARTY OF	Indulge	1598	11 '			2.15
No. 1591.			1	Miscel	laneous.	
	Indulgent	1316	Staple	es, all size	es, per pound, net	.10
	Industry	1317	Comp	ound for	Making Joints, per pound, net.	.20
	Inez	1318	Powd	lered Soar	pstone, per pound, net	.04
	Infamous	1319	Fishir	ng Wire,	per foot, net	.0
	Finis	shing	and	Fitti	ng Tools for Conduit	s.
No. 153—Outside Reamer.	Infamy	153	Outsi	de Reame	er, each	1,00
No. 154—Inside Reamer.	Infancy	154	Inside	e Reamer	. each	1.00
	Infantile	157	Comb	oination K	eamer each	1.90
No. 157—Combination Reamer.						
	Infected	156			nmer for Brass Covered Conduit size conduits, each	4.25

No. 156. Trimmer for Metal Covered Conduit Tube.

Instructions.

In ordering Tube and Fittings the proper amount of Fittings bears about the following ratio to the Tube:

Three Couplings to every ten feet of Brass Armored Tube.

Four Couplings to every ten feet of Iron Armored Tube.

Four Elbows to every thirty feet of Tube.

Fifteen Clips to every thirty feet of Plain or Brass Armored Tube.

The number of Main Line, Junction, Feeder and other Boxes can only be determined by actual count and the arrangement of the circuits.

Small quantities of Compound, for sealing-Tubes in Junction Boxes, Soapstone and Fishing Wire, should always accompany every order.

Iron Armored Conduit is shipped in bundles, securely tied.

Packing Charges are as follows: Slats for Bundling Plain or Brass Armored Condult, 7 cts. each, Six-foot Crates, 75 cts. each; Ten-foot Crates, \$1.00 each; Barrels, 25 cts. each; Small Boxes, 15 cts. and 25 cts. each

We charge net cost of material only, and are not reimbursed for the labor expended in packing.

Flexible Conduit.

For Interior Wiring



				01 1111		,	θ.									
Code Word.	List No												1	Lis	st Price. Per foot.	
Amidships	3925	1	inch	inside	diameter										\$0.06	
Amiss	3926	38	66	44	64										.07	
Ammunition	3927	1	16	44	66										.08	
Amnesty	3928	ú	66	44	44										.10	
Among	3929	3	44	64	66										.12	
Amorous	3930	1	44	44	66										.16	
Amount	3931	14	66	44	66										.20	

Shipped in coils unless specially ordered on reels.

Size of Coils and Weight.

				Fee per C	
1	inch	inside	diameter		90
78	6.6	66	44		100
J	66	44	64		125
â	64	6.6	44	200	140
3		44	44	150	175
1	66	64	4.6	100	250
11	66	66	44		280







Three Duct.



All Styles are made Six Feet Long.







Six Duct.



This cut is taken from a photograph showing a four chamber Conduit, 8 x 8 inches, six feet long, distance between bearings five feet four inches, supporting seven tons of pig iron.





Cross section of six chamber Conduit, showing position of dowel pins in abutting joints.

The McRoy Vitrified Terra Cotta Conduit.

Manufactured from pure shale, finely ground, giving density and smoothness; is thoroughly and uniformly burned, affording good alignment and adding great bearing strength.

Made in lengths of 6 feet, and widths of 8½ and 13 inches, this size alone commends it to general favor owing to the great surface bearing of each piece.

In cross section dimensions the outer walls are $\frac{3}{4}$ in. with partitions $\frac{1}{8}$ in. thick, and duct openings $3\frac{1}{4} \times 3\frac{1}{4}$ inches square, with rounded corners.

The interior and exterior of Conduit being thoroughly salt glazed, prevents the moisture from penetrating.

The ends of each piece have the duct openings beveled to avoid any possibility of cable coming in contact with sharp edges.

Being manufactured of shale places it foremost as a material not affected by electrolysis or any gases or acids in the earth, besides being entirely free from corrosion.

The large amount of duct area obtainable in the McRoy Conduit compared with the small cross section of Conduit is well worthy of consideration.

Being made in multiples of two, three, four and six ducts, any odd number of multiple Conduit can be constructed.

In making joint a simple Portland cement mortar coating around joint is generally used,

To make an airtight joint a strip of burlap 8 to 10 inches wide, saturated with hot liquid asphalt is wrapped several times around joint, adding to its rigidity and making joint waterproof. No cement mortar is needed for this joint,

It can be laid surrounded entirely by concrete, in which case the concrete on the sides necessarily need not be very thick.

It is considered practical to lay it on a concrete foundation, none on sides, but the top covered with concrete for protection against the users of picks.

Prices Quoted on Application.

Western Electric Fan Motors.

Fan Motors for Direct Current Incandescent Circuits.

In designing the W. E. Fan Motor for 1898, great attention has been given to the essential qualities of a Fan Motor, namely Cost, Appearance, Economy of Operation and Durability, and we feel warranted in saying that this motor possesses all these requirements to a remarkable degree. The design of the Motor is artistic and graceful, and when running at the maximum speed the 16 inch motor consumes but little more current than an ordinary 16 candle power incandescent lamp and the 12 inch motor consumes less than any ordinary 16 candle power lamp. The motor is designed upon scientific principles, and drop-forged steel is used in the construction of the horseshoe field magnets—the most economical form of maguet known—all of which contributes to the extraordinary high efficiency obtained in the motor.

The armature is iron-clad and furnished with mica-in sulated commutator, and is entirely encased by the metal of the motor, protecting it from dust and injury from external sources.

The brush holders are so designed as to automatically take up the wear of the carbons, without the necessity of manual adjustment, and to press the carbon brushes upon the commutator in the direction of rotation. This is a very essential feature for noiseless operation.

The Motor is furnished with self-oiling, self-aligning bearings and is silent in operation, the only noise to be detected being caused by the whirring of the fan through the air.

The utmost care in the selection of material and assembling of the Motors is maintained and every Motor is guaranteed.

These Motors have three speeds and are furnished with 16-inch and 12-inch Fan Blades.

The 16-inch Motor is wound for 110, 220 and 550 volts direct current. The 12-inch Motor is wound for 110 volts only

The Ceiling Fan Motors have three speeds and are furnished with 60 inch Fan Blades. They are wound for 110, 220 and 550 volts, direct current.

The Column Fan Motors have two speeds.



.Desk Fan Motor-12 inch

List No. F-1

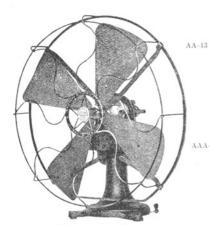
A-4.

A-5

A-6.



Desk Fam Motor-12 inch.



Desk Fan Motor-16 inch,

Direct Current Fan Motor—(Continued.)

Western Electric Desk Fan, 12-inch, 110 Volts.

List Price, Each One-sixteenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,875, 1,500 and 1,200 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self aligning, self oiling bearings, black enamel finish, complete with 12-inch black enamel fan and guard......\$34.00 With polished brass Fau and Guard, and all other outside With nickel-plated Fan and Guard, and all other outside Western Electric Desk Fan, 16-inch, 110 Volts. One-tenth H. P., Western Electric Fan Motor, with regu lating switch, giving three speeds, viz. 1,375, 1,000 and, 750 revolutions per minute at 110 volts for constant potential circuits up to 125 volts, self-aligning, selfoiling bearings, enamel finish, complete 16 inch black

Western Electric Desk Fan, 16-inch, 220 Volts.

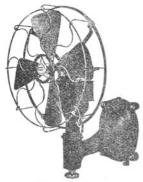
One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz 1,375, 1,000 and 750 revoultions per minute at 220 volts, for constant potential circuits up to 240 volts, self-aligning, self-olling bearings, with polished brass Fan and Guard and all other outside brass fittings polished.... 50.00

Western Electric Desk Fan, 16-inch, 500 Volts.

AAA-15 One-tenth H P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz. 1,375 1,000 and 750 revoultions per minute at 500 volts, for constant potential circuits, up to 550 volts, Self-aligning, self-oiling bearings, with polished brass Fan and Guard and all other outside brass fittings polished. ... 55.00

In ordering give List No. and Voltage,

AAA-16.



Bracket Fan Motor 12-inch.

AA-14

Bracket Fan Motor 16-inch.

Direct Current Fan Motors—(Continued.)

	List Price Each.
F-7	One-sixteenth ff. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,875, 1,500 and 1,200 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan; feet of base drilled for screws; black enamel finish; complete with 12-inch black enamel Fan and Guard\$34.00
F-8	With polished brass Fan and Guard, and all other outside brass fittings polished
F-9	With nickel plated Fan and Guard, and all other outside brass fittings nickel-plated
	Western Electric Bracket Fan, 16-inch, 110 Volts.
A 10	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,375, 1,000 and 750 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan; feet of base drilled for screws; black enamel finish; complete, with 16-inch Fan and Guard
A-11	With polished brass Fan and Guard, and all other outside brass fittings polished
A -12.	With nickel-plated Fan and Guard, and all other outside

One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,375, 1,000 and 750-revolutions per minute at 220 volts, for constant potential circuits, up to 240 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan, feet of base drilled for . screws; polished brass Fan and Guard, and all other

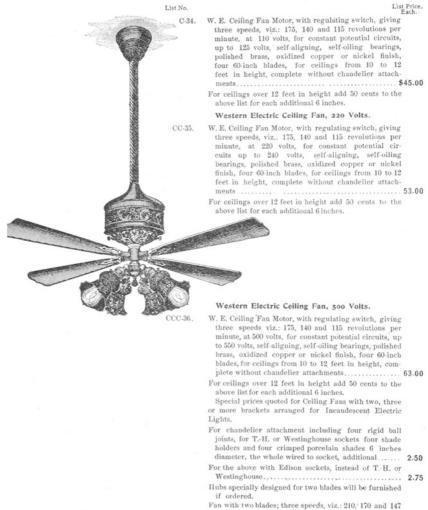
Western Electric Bracket Fan, 16-inch, 500 Volts.

One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,500, 1,200 and 800 revolutions per minute at 500 volts, for constant potential circuits, up to 550 volts, selfaligning, self-oiling bearings, thumbscrew for adjusting direction of Fan, feet of base drilled for screws; complete, with 16-inch Fan and Guard...... 55-00

In ordering give List No. and Voltage.

Direct Current Fan Motors-(Continued.)

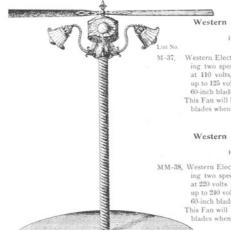




revolutions per minute.

In ordering give List No. and Voltage.

Direct Current Fan Motors—(Continued.)



Western Electric Column Fan, 110 Volts.

Height of Blades from floor, 7 ft. 4 in.

List Price. Each.

Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 110 volts, for constant potential incandescent circuits up to 125 volts, self-oiling bearings, polished brass finish, 60-inch blades

This Fan will be arranged for chandelier lights under the blades when so desired.

60.00

Western Electric Column Fan, 220 Volts.

Height of Blades from floor, 7 ft. 4 in.

MM-38, Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 220 volts for constant potential incandescent circuits up to 240 volts, self-oiling bearings, polishd ebrass finish, 60-inch blades

This Fan will be arranged for chandelier lights under the blades when so desired.

67.50

Western Electric Column Fan, 500 Volts.

Height of Blades from floor, 7 ft. 4 in:

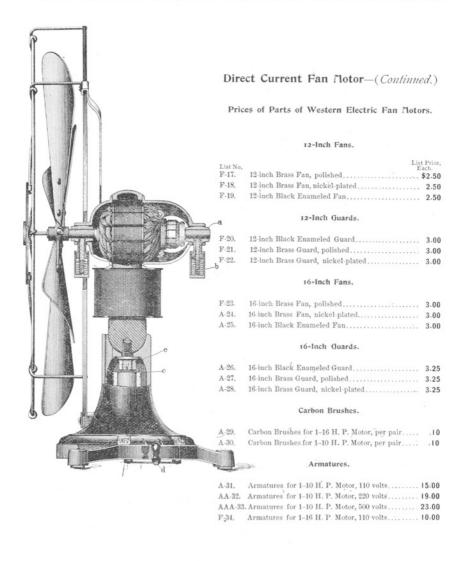
MMM-39, Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 500 volts, for constant potential incandescent circuits up to 550 volts, self-oiling bearings, polished brass

blades when so desired.

Special prices quoted on Column Fans with two, three or more brackets arranged for incandescent lights.

We furnish Column Fans with round mahogany table around standard, for restaurants.

In ordering give List No. and Voltage.



Parts of Western Electric Desk Fan

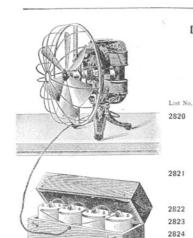
Motors—(Continued.)

List No.		List Price.
F-54.	12-inch Rheostat for 110 ve	olts\$1.60
F-55.	16 " " 110	" 1.60
F-56.	16 " " 220	" 1.60
F-57.	16 " " 550	" · 1.60
F-58.	12 " Switch Base, 110	" ·90
F-59.	16 " " 110	" ······ •90
F-60.	16 " " 220	*
F-61.	16 " " " 550	9090
F 62.	Oil Cup Complete,	
F-63.	" " Spring,	
F-64.	" " Wick,	
F 65.	Self aligning Journal,	
	•	
Parts	of Western Electi	ric Ceiling Fan Motors.
C 66.	110 volt Armature,	10.80
CC-67.	220 " "	14.80
CCC-68.	550 " "	20.00
C-69.	110 " Field Coil, (Two S	ections)
	(Each Field Coil is made	e up of two sections.)
CC 70.	220 volt Field Coil,	9.25
CCC-71.	550 " " "	11.70
C-72.	110 " Rheostat,	1.60
CC-73.	220 " "	
CCC-74.	550 " "	1.60
C-75.	Carbon Brushes for 110, 220	and 550 volts
C-76.	45 degree Ball joint for Cha	ndelier attachment
C 77.	Switch handle,	
C-78.	Blades per pair,	
	Note. (Always order b	dades in pairs as they have to
	be balanced in weight to p	orevent swaying.)
C-79.	Oil Cops, complete,	
C-80.	Oil Cup Springs,	
C-81	Oil Cup Wicks.	

Self aligning Journal,

C 82.

2825 2826 2827

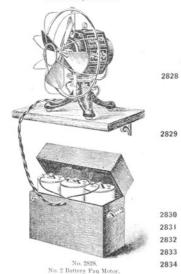


Direct Current Fan Motor—(Continued.)

Battery Fan Motor, No. 1.

Outfit complete with charge to run 125 hours\$	Price. ach. 25.00
Consisting of Edison battery motor with 9 inch Fan and Guard, battery cords, four Edison Lalande cells, type S, porcelain jars, in polished oak box 25 inches long, 8 inches wide, 15 inches high.	
Battery motor with 9-inch Fan and Guard	12.00
The motor with fan occupies a space 10 x 12 inches. It is absolutely noiseless.	
Flexible battery cord connecting cord to battery	1.00
Complete renewals for 4 cells, type 8	4.76
Zinc plates	.21
Copper oxide plates	.25
Caustic potash per can of 8 sticks	.96
U C II b	0.1

No. 2820. No. 1 Battery Fan Motor.



Outfit complete with charge to run motor 150 hours. . 17.50

Iron Clad Fan Motor, No. 2.

Consisting of iron clad motor with J-inch Fan and Guard, battery, cords, 3 Edison Lalande cells, porcelain jars, type S in polished oak boxes 18% inches long, 8 inches wide, 15 inches deep.	
Edison iron clad battery fan motor with 7-inch Fan and Guard. It is noiseless, has self-oiling bearings, and is entirely enclosed in iron clad case, being provided with glass window at rear for regulation of brushes.	8.50
When ordering renewals for this outfit always state for type S.	
Complete renewals for 3 cells, type S	3.60
Zinc_plates	.21
Copper oxide plates	.25
Caustic potash per can of 6 sticks	.74
Heavy paraffine oil, per bottle	.12

Alternating Current Desk Fan Motors.

Our Alternating Current Fan Motors are made for either 60 cycles or 125 cycles.

The Motors have a speed regulating device consisting of an inductive resistance operated by a three-point snap switch capable of giving full speed and half speed, the third position of the switch cutting the motor out of circuit. This controlling switch will be recognized as a great convenience, as it not only permits a change of speed but allows the motor to be wired directly to a circuit without the introduction of a lamp socket and plug counection.

The field core is a ring of iron punchings upon the inwardly projecting teeth of which the field coils are placed. The armature has no insulated wire, but consists of the customary laminated core through which, near the periphery, bare copper rods are run, their ends being riveted to copper disks at the ends of the core. As the rotation is produced by inductive action, Lo commutator or brushes are required. This permits the armature core to overhang the bearing to such a degree that, together with the fan, a balance is effected in the single bearing of the motor. This bearing is long and is provided with a self-oiling device so that it does not heat By this method of lubrication the flying of oil is prevented

The 12-inch motor is supported on trunnions which allow a vertical angular adjustment.

These motors are made in three styles.

10-inch diameter, with regulating switch, rigid base.

12-inch diameter, with regulating switch, with trunnion. 14-inch diameter, with regulating switch, rigid base.

List Price

For 125 Cycles. Alternating Current Fan Motor, 104 volts, 10-inch Fan,

Description.

	rigid base\$25.00
GG-41.	Alternating Current Fan Motor, 52 volts, 10 inch Fan, rigid base
G-43.	Alternating Current Fan Motor, 104 volts, 12-inch Fan, adjustable base
GG-44,	Alternating Current Fan Motor, 52 volts, 12-inch Fan, adjustable base
G-83	Alternating Current Fan Motor, 104 volts, 14-inch Fan, rigid base
GG-84.	Alternating Current Fan Motor, 52 volts, 14-inch Fan, rigid base
	For 60 Cycles.
G-45.	Alternating Current Fau Motor, 104 volts, 10-inch Fan 25.00
GG-46.	Alternating Current Fan Motor, 52 volts, 10-inch Fan 25-00
G-48.	Alternating Current Fan Motor, 104 volts, 12-inch Fan 30-00
GG-49.	Alternating Currrent Fan Motor, 52 volts, 12 inch Fan 30.00
G-85.	Alternating Current Fan Motor, 104 volts, 14-inch Fan, rigid base
GG-86	Alternating Current Fan Motor, 52 volts, 14-inch Fan, rigid base



10-inch and 14-inch Motor with rigid base



G-40.

12-inch Motor with adjustable base, or Trunnion.



It is operated by induction and has no brushes or commutator, all bearings self-oiling, the Motor is supplied with a starting and stopping switch, and a blade adjuster, which admits of the blades being changed to any angle without stopping motor or changing speed. It is necessary to oil the motor only once a year

The motors are furnished in the following finishes: bronze, nickel, bower-barff, polished brass and white and gold.

Each Fan has marked on a plate the voltage on which same should be run; a slight variation from this will make no difference.

Made for 60 cycles, 52 and 104 volts. Made for 125 cycles, 52 and 104 volts. Made for 140 cycles, 52 and 104 volts,

We can furnish them up to 120 volts when required.



For ceilings over 14 feet \$1.00 per foot extra will be charged. Without switch, \$2.00 less, net.

When ordering Alternating Ceiling Fans state number of cycles or number of alternations and give voltage. In case you can not determine the number of cycles or alternations state what systems are used, viz. General Electric, Westinghouse, Stanley or Fort Wayne.

In ordering give List Number and Voltage.

Combined Exhaust Fans and Lundell Motors.

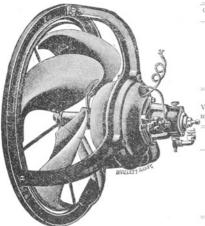
Direct Connected, Noiseless, Efficient, Variable Speeds.

The design of the Lundell Meter lends itself most readily in application exhaust fan work. The motor, being fron clad, is almost wholly inclosed and easily permits of connection by radial arms, spider, or bolts to any of the many forms of exhaust fans now to be found in the market.

It has been the practice of manufacturers of exhaust fans to supply a bearing in front as well as in the back of the fan, but in our application we carry a shaft, which may be horizontal or vertical, in two bearings in the motor frame itself, not supporting the shaft in any sense from the fan ring. This course insures perfect alignment and noiseless running.

All exhaust fan outfits are made with horizontal shafts, unless otherwise ordered, and are invariably made so that the direction of the flow of air is from the motor toward the fan. If it is desired to operate the fan with a vertical shaft or to drive the air through the fan and over the motor, it should be specifically stated in the order. With all standard horizontal shaft fans, an adjustable thrust bearing is provided. When the flow of air is desired contrary to the standard direction, a button and thrust bearing is placed at the rear of the motor.

In all horizontal shaft fans, lubrication is effected by oil. In vertical shaft fans, lubrication is effected in an oil receptacle enclosing a step at the bottom of the shaft, and a graphite or other self-lubricating bearing (never a grease cup or oil bearing) at the upper end of the shaft. Particular care should be taken to see that the white line marked upon the motor be in a vertical position when the fan outfit is erected.



Catalogue No.	Size of pan. Inches.	Speed	Motor Horse- Power.	Amperes	Voltage.	Price.
990	18	1000	1	1.5	115	s220.00
992	24	775	- 6	3.	115	300.00
994	30	650	1	5.	115	360.00
996	36	600	2	10.	115	490.00
998	42	550	4	20.	115	650.00
1000	48	500	5	25.	115	750.00
1002	60	400	10	30.	115	1200.00
1004	72	350	15	50.	115	1500.00

We attach our Lundell Motors to any of the standard makes of Ventilating or Exhaust Fans. A list of prices and the charge we make for attaching is given herewith.

Horse-Power.	*Price of Motor and attaching.	Size of Fan. Inches,	Price for attaching only.
ł	132.00	18	\$42.00
1 2	180,00	24	50.00
	220,00	30	60.00
2	320.00	36	70.00
	505.00	42	80.00
5	565.00	48 60 72	90,00
10	820.00	72	120,00
15	1100.00		200,00

Combined Exhaust Fans and Lundell Motors— (Continued.)

Motors are wound for 115, 230 and 500-volt circuits. 4, 4, and 1 H.-P. Motors, wound for 500-volt circuits, \$5.00 net extra.

Purchaser will understand that, for example, a 2-horse-power motor whose standard speed is 1000 revolutions per minute is a 1-horse-power motor at 500 revolutions per minute, or in other words the power a motor exerts is directly, proportional to its speed.

The prices on preceding page are for disc fans only. Centrifugal fans, prices on application.

Motors for direct-connected outfits are made special, and are different from the standard power motors, having extra length of shaft, extra heavy bearing next to fan, thrust bearing, etc.

*Customers to furnish fan and ring or frame.

Direct Connected Electric Blowers and Exhausters.

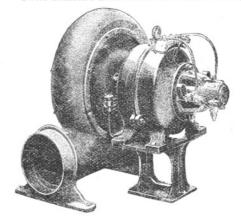


Table for Direct Connected Blowers.

	Pres-	Sizes of Motors (These Vary				
B. F. Sturte- vant & Co. "Monagram."	Buffalo Forge Co. "B" Volume	Boston Blower Co.	American Blower Co. "Dixie"	J. F. Polsey Exeter.	sure	According to Pressure of Ai Required.) Horse-power.
00 0 1 2 3 4 5 6 7 8 9 10 36 37	1B 2B 3B 4B 5B 6B 7B 8B 9B 10B	24 27 30 35 40 45 53 63	14 18 22 26 30 34 38 42	AA A B C C D and E F G H and I J	From 0 to 5 ounces.	1 - 4 1 - 1 1 - 1 1 - 2 1 - 4 1 - 5 1 - 7½ 2 - 10 3 - 15 7½-15 10 - 20 20 - 25 25 - 35 25 - 35

Prices upon application.

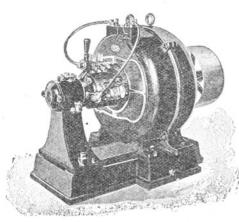
Lundell Motors and Dynamos.

Data and Prices.

Guaranteed	Watts.	Amperes	Voltage*	Approxi- mate	PULLEY		List
Brake H P		at 115 Volts.	Torrage	Speed	Diam	Face	List
710			4 Battery	1300	1	V	s 28 00
12			115	1050	1	V	28 00
1			8 Battery	1200	1+	V	32 00
î			115	1200	15	V	40 00
1	.250	2.2	*115, 230, 500	1640	.29	13	90 00
i	-500	4.3	*115, 230, 500	1485	3+	2	130 00
1"	.1000	8.7	*115, 230, 500	1225	45	23	160 00
9	1920	16.7	115, 230, 500	1040	6	38	250.00
3	2750	23.9	115, 230, 500	1480	6	38	350.00
4	3675	32.	115, 230, 500	1150	7	32	425 0
** 5	4525	39.4	115, 230, 500	1073	8	44	473.00
** 74	6650	57.8	115, 230, 500	1060	9	5	600.00
**10	8750	76.1	115, 230, 500	878	11 -	6	700.00
**15	12700	. 118 7	115, 230, 500	785	13	6+	900.00
**20	16700	142 2	115, 230, 500	725	15	7	1100.00
**25	20650	179.5	115, 230, 500	770	17	8	1300.00
**35	28500	248.7	115, 230, 500	750	22	10	1800 00

^{*4,} ½ and 1 H.-P. motors, wound for 500-volt circuits, \$5.00 net, extra.

^{**4-}Pole Type, all smaller sizes 2-Pole Type.



NOTICE.

Prices subject to change without notice Boxing and cartage charged at cost.

Above prices include fire-proof starting boxes.

Adjustable base, for tightening belt when re quired, will be furnished with 2 H. P size and over without extra charge.

Machines are also wound for slower speeds with proportionately smaller outputs, and for any voltage between 50 and 150 volts.

Regulating Rheostats capable of 50 per cent Preduction in speed furnished at a special quotation

Plating Dynamos.

Price List.



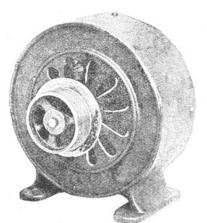
No. 1 Plating Dynamo.

	Silver per hour	Nickel	H. P. required at full load.	Pulley	Speed, Approximate.	List Price.
No. 1	2 oz.	36 ga	. 1	1½ x 1½ in.	2,500	\$ 40.00
No. 3	6 "	100 4	1	2 x 11 "	2,000	95.00
No. 4	12 "	200 "	3	3 x 2 "	1,750	140.00
No. 5	25 "	400 "	1	4 x 2 "	1,900	190.00
No. 6	53 "	825 "	2	5 x 3 "	1,750	250.00
No. 7	110 "	1,700 "	4	7 x 4 "	1,600	390.00
No. 8	160 "	3,600 "	5	8 x 5 "	1,400	425.00

With No. 6 and larger sizes are sent sub-base, sliding rails and belt-tightening gear.

Rheostat included in above prices.

Alternating Current Power Motor.



Alternating Current Power Motor.

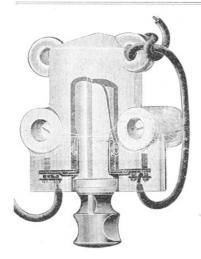
This Motor is non-synchronous, and runs at a practically constant speed under any change of load up to its full capacity.

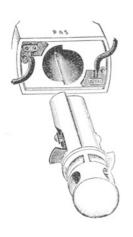
The armature and field are finely laminated. The winding on the armature consists of copper bars, which are inserted in holes near the periphery, and are connected at the ends by massive copper rings, thus furnishing a closed circuit winding of great capacity. The current in these conductors is produced by induction, hence no collector, commutator, nor connection with the outside circuit is needed. The winding of the fields and the arrangement of the iron in the pole pieces produces a starting torque equal to one-half that of the machine under full load.

In starting the motor the button on the back of the motor is pushed in for a few seconds until the armature comes up to speed, when it is released. The motor requires no further attention while running.

List Price. $\frac{1}{8}$ H. P., 52 to 104 volts, with grooved or flat pulley. . . . \$40.00 $\frac{1}{8}$ H. P., 52 to 104 volts, with grooved or flat pulley. . . . 60.00

These motors are built for 52 or 104 volts, high or low frequency. In ordering be particular to state voltage and number of periods or cycles per second. Low frequency machines are only made to order.





P. & S. All China Junction Box and Motor Cut-Out.

The illustration shows a form of motor cut-out and junction box that will meet the requirements of the average motor installation.

The fuse chamber is entirely surrounded by porcelain and is completely divided by means of projections on the plug, this gives plenty of room for the fuse.

A five (5) inch fuse is required in this cut-out.

The plug is held in the box by means of the Knife Contacts shown in the illustration and cannot drop out.

The connections will take a wire from No. 4 B & S to the smallest size.

This device should not be used on motors taking over 60 amperes of current on normal loads.

It can be used for motors,

On 110 volts up to 8 H. P. On 220 " " 15 "

On 500 " " 25 "

For larger size motors the Bryant High Tension Service Switch and fuse box combined should be used.

On each corner of the P. & S. junction box is an eye,

to these eyes service wires may be attached thus saving the expense of an extra insulator.

In addition to its use as a motor cut-out it may be used as a junction box for transformers, as a telephone cut-out and for outside work on service lines. It may be fastened to its supports by lag serews or wood screws.

Code Word.	List No	P. & S. No.	Each
Accredit	25488	139	White\$1.00
Accredation	25489	$139\frac{1}{2}$	Black

Furnished in black or white.

Two lag screws are furnished with each cut-out.

TOOLS.



Carrying Hooks.

Code Word. List No. List Price.

Merritt 15005 Carrying hook, with swivel bearing, each \$ 5.00



 Maro
 15010
 Extra heavy, 7-foot handle
 4.50

 Marquan
 15011
 Heavy, 6-foot handle
 4.00

 Marquette
 15012
 Medium, 5-foot handle
 3.50

These hooks are made with particular regard to construction work. They are not malleable iron. The swivel bolt is forged wrought iron; hooks steel, with special long prods. The handles are made especially for us.



Cant Hooks.

15007 Cant hook, 4 feet long, each...... 2.50



Digging Shovels.

No. 14910

Meshhoppen	14910	Pole hole shovels, regular, 7-foot, handle,	100000
Metamora	14911	Pole hole shovels, regular, 8-foot handle,	1.25
Metculf	14912	Pole hole shovels, heavy, extra long straps,	1. 40
Metropolita	14913	7-foot handle, each	1.50
		8-foot handle, each	1.60
Meyers	14915	Shovel handles, 7-foot, per dozen	5.50
Micani	14916	Shovel handles 8-foot per dozen	6.00

of the last and agreement to the	The same of the second	-0		Digging Spoons.	
	No. 3780.				
		Code Word. Becsionx		Pole hole spoons, regular, 7-foot handle,	Price.
		2 Control	0,00		1.60
		Beetle	3781	Pole hole spoons, regular, 8-foot handle,	
				each	1.75
		Befall	3782	Pole hole spoons, heavy, 7-foot handle, each. With extra long straps	1.75
		Befit	3783	Pole hole spoons, heavy, 8-foot handle,	1.20
				each. With extra long straps,	2.00
		Micanopy		Spoon handles 7-foot, per dozen	7.50
		Michigamme	14918	Spoon handles, 8-foot, per dozen	7.50
1	Eas.			Grading Shovels.	
	No. of the last of				0.00
	No. 3869.	Binocular	3869	Kound point, per dozen	9.00
TO THE STREET		Binoculate	3870	Square point, per dozen	9.00
	No. 3870.				
427	A STATE OF THE PARTY OF THE PAR		Fo	reka Post Hole Diggers.	
		50	Lu	ireka i ost iiote Diggersi	
	No. 3622.	Anchorage	3622	Each.,	2.50
			Va	ughan's Patent Augers.	
			V 21	ughan s ratent Augers.	
A STATE OF THE PARTY OF THE PAR		Middleboro	14920	10-inch, each	3,50
		Middleburg	14921	12 " "	4.00
	No. 14920.	Middlefield	14923	14 " "	4.50
				Digging Bars.	
		-			
	No. 3689.	Beheaded	3689	Digging bar, round, 11/8 inches diameter,	
				8 feet long, best steel, each	2.50
		Middle port	3690	Bligging bar, octagon, 1% inches diameter,	2.50
				A 1994 INIBI AND AND A STATE OF THE STATE OF	

Crow Bars.

No. 3687.	Code Word: Behavior Behead	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		Tamping Bars.
Carried Control of the Control of th	Crecy Creasing	1108 Tamping bar, wood, 711 long 2.25 3075 Tamping bar, iron, 7 ft long 2.00
No. 1108	Cricket	3078 Combined digging and tamping bar, iron 2.50



No. 14928.

Raising Forks.

Millan rille	14925	Length,	12	fee	 2.20
Millanfield	14926	4.6	14	4 4	 2.30
Millerrille	14927	**	16	* *	 2.40

Pike Poles.

Millerton	14928	Pike pole,	length,	12	feet.	 1.20
Millenburg	14929		**	14	11	1.35
Millar	14930	**	11	16		1.50
Millerburg	14931	61	4.6	18	**	1.60



Pole Supporters.

Miller field	14932	Jenny pole supporter, height	
		6 feet	8.00
Millerean	14933	Jenny pole supporter, height	
		7½ feet	8.50



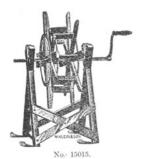
Benignant	3693 #	"Mule"	patteri	,heig	ht41/2 ft.	7.00
Benumb	3694 1	**	**	44	6 "	7.00
Benumbed	3695 1	**	4.4	**	716 "	7.00

No. 3693.



Reels.

List Price. Code Word List No. Constricted 2543 Take-up reel, each...... \$15.00



Martel

The improvement in this reel consists of a separate guard piece (shown in cut below) which is slipped on shaft and fasened with a flat key. To empty the reel, lift the spool out of buck, draw the key, and turn reel on end, the guard piece and coil will then come off together. This arrangement does away with the loose toggle guard irons of the old style reel and is much handier.



Constrictive 2545 Pay-out and take-up reel, each...... 16.50

No. 2544.

7.50 Constriction 2544 Pay-out, reel, each.....

Categorical 2546 Reel straps, per set 5.00

Nos. 14935 and 1109.

Vises-Stubs .

Code Word.	List No.										L	Price.
Millergan	14935	Stubs	, 51/2	incl	1							\$ 2.25
Millington	14936	**	6							. ,		3.00
Millmont	14937	**	51/2	4.6	co	ppe	r	fa	ce			3.50
Millstadt	14938	**	6	"		. 6		•	6			4.50

Vises-Vom Cleff's.

Bilking	2547	51/2	inel							1.75
Billbook	2548	6	4.4				 			2.00
Billet	2549	51/2	4.4	copper	face	٠	 		 	2.50
Millrille	2538	6	66	4.	+6		 			3.00
Milroy	1109	Vis	e str	aps					 	.75

"Come=Along" Eccentric.

Milton	14940	For No. 9 wire	.60
Millwood	14941	For No. 3 wire	1.25
Milo	F4942	For No. 000 wire	1.50



No. 3705,

Klein's Plain Eccentric.

Beauty	3705	Brass	1.25
Beautyspot	3706	Steel	01.1



Haven's Clamp.

Blundering	3494	Small size	1.75
Blunt	3495	Large size	3.50



No. 14945.

The Buffalo Grip.

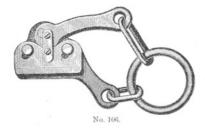


Parallel Screw Clamp.



Ferdinand Wire Stretcher.

Martinstille | 15020 1.00

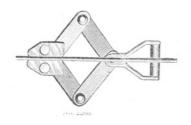


Fulford's Eccentric.



Landee's Clamp.

Marville 15021 1.50



The Parallel Wire Stretcher.

	No Tee	th. Direct Pull. All Steel.	
Code Word.	List No.	Lit	st Price.
Capna	2265	Fine tool steel, per dozen	36.00
Captured	2542	Cast steel, arranged for hooks; suitable for electric light and trolley wires; carries any size up to No. 000, inclusive, per	
		dozen	42.00



Klein's Compound Eccentrics.

Style A.

Milford	2525	Klein's Compound Eccentric	
		clamp, brass, each	1.70
Milard	2526	Iron, large size, each	2.50



Style B.

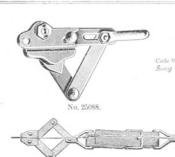
As both the upper and lower bearings of this clamp are made of brass, there is no danger of injuring the wire.

For hard drawn copper wire.



Style C.

Maryville	15025	Light, for No. 4 B. & S. and finer,	
		each	3.50
Marquota	15026	Heavy; for No. 0 and finer, each	5.00



The Westfield Grip.

Carries any size Wire up to No. 4.

 Code Word.
 List No
 List Price.

 Song
 • 25088
 Each.
 \$ 2.50

Improved Parallel Wire Stretcher,

Sonyish 2

Songful

25089 No. 0 Telephone size, small size, each....... 3.00 25090 No. 1 Telegraph, Electric Light and Trolley

Wire, each. 3.50

Cutter Lag Screw Wrench.

Made in two sizes, for 3 inch and for 4 inch lag screws. Is especially handy for putting up windlasses, pole pulleys, brackets, and the like.

Songster 25091 Songster 25092

25091 For § inch Lag Screws, each.....
25092 For ½ " each.....

.30

The Electric Spud.



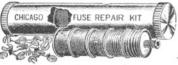
No. 25093.

No. 25091.

The handles being made of crucible steel tubing, (especially for this purpose) and are as strong as a solid steel bar. The blades are forged from best open hearth crucible mining tool steel and tempered.

These Spuds are provided with tamper on upper end for tamping ground around pole, thus combining a Spud and tamping bar in one tool. Length 9 feet.

Songstress 25093 Each..... 3.00



Chicago Fuse Repair Kit.

Contains five sizes of fuse wire, also a good assortment of fuse links,

Acquirer 25598 Kit, complete \$1.00

2.25

3.50

5.00

Pulley Blocks with Eye For Attaching Separate Clamp. Code Word. Masoaville 15030 4-inch, per pair..... \$- 2.50 No. 15030. Masenna 15031 5 " " Pulley Blocks. With Eccentric Attached. 15032 4-inch, per pair..... 4.25 No. 15032. Matamoras 15033 5-inch, extra heavy, per pair...... 6.50 Pulley Blocks. With Eccentric Attached. No. 15035. Matfield 15035 21/4-inch malleable galvanized iron. per pair..... 3.50 Pulley Blocks. GALVANIZED IRON, WITH LOOSE HOOKS. Single Iron Sheaves. Dangerous 6807 Diameter of rope, 1/2 inch, per dozen. 7.20 Dangling " " 5% " " .. 6808 10.80 Daniel 6809 15.00 Double Iron Sheaves. No. 6810. Dandy 6810 Diameter of rope; 1/2 inch, per dozen . . Dandle " 6812 " 5% " 18.00 Danger 6817 GALVANIZED IRON, WITH SWIVEL EYES. Single Iron Sheaves. Dapper 6818 Diameter of rope, 1/8 inch, per dozen . . .75 .. Dapple6819 4.6 " 1/4 " 1.00 5 · · · 66 Dare6820 1.75 38 " Daring 6821 2.75 Darken 1/2 " 6822 4.00 Double Iron Sheaves. Darkness 6823 Diameter of rope, 1/8 inch, per dozen . . 1.00 Darling " " 14 " 6824 6.5 1.50

Dart

No. 6818.

Darted

Dash

6825

8788

8789

" 3/8 "

" 1/2 "



Stubs' Side Cutting Pliers.

Code Word.	List No.				1.	ist Price.
Anarchist	3663	4	Inch,	per c	loz	\$10.00
Anarchy	3664	45%		- 11		10.00
Anatomist	3665	5				10.00
Anatomy	3667	6		4.0		11.00
Anatron	3668	7	0.5			18.00
Ancestor	3669	8				24.00
Milbrook	2523	9	4.4	++		30.00
	Nickel	plate	d, 30c.	per I	pair extra, net.	



Solid Steel Pliers.

With Raised Cutter.

Matapan	15040	5.	inch,	per dozer	١.							14.50
Matawa	15041	6	4.1	11								15.50
Matawan	15042	7	4.1	**								19.50
Mattison	15043	8	**	**				4				22.50



Safety Pliers.

Patent Insulation.

Mattoon	15045	(j=	inch,	per doz	en	25.00
Maurice	15046	7	6.	1,5		33.00
Maxwell	15047	8	6.6	TA.		40.00
		,	Teste	d to inst	ilate against a	
		CI	irren	t of 2,50	0 volts.	



The Universal Pliers.

Mayfield	15050	S-inch,	ber,	pair	1.50



Fry's Patent Lineman's Splicing Pliers.

Maseppa 15052	S-inch, per pair	2.00
---------------	------------------	------



Patent Pliers.

Masomance	15055	434	inch,	per dos	ten,	4.20
Mayford	15056	6.	**	67		4.80
Mazon	15057	8	* *	4.6		6.00
Meadville	15058	10		4.		8.00

Vom Cleff's All Steel Pliers.



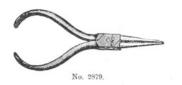
			Side	Cutting									
Code Word.	List No.											I.	ist Price.
Belched	3794	4	Inch,	per doze	n.	 					 		\$8.00
Belching	3795	41		**					,				8.00
Belfry	3796	5		**		 		. ,	,				8.00
Belgian	3797	54	**	**		 		. ,					9.00
Belie	3798	6		**						ı			10.00
Belied	3799	61	**	**		 							12.00
Belike	3800	7	**	**									14.00
Belittle	3801	8	4.6	**					+				18.00
Bellow	3802	9	4.4			 							22.30

No. 2835.

		FR	it, L	ong r	lose.						
Coquettish	2835	3 I	nch,	per do	zen				 		4.20
Coquetting	2836	$3\frac{1}{2}$		**					 		4.20
Cora	2837	4	4.6	**					 		4.20
Coral	2838	44	**	**		 					4.20
Coralite	2839	5	4.4	**							4.60
Coralline	2840	$5\frac{1}{2}$	4.6	4.6							5.40
Coralloid	2841	6		44					 		6.30



		Di	agon	al Cut	ting.					
Corant	2869	3]	Inch,	per do	zen	 				8.00
Corcule	2870	31	4.6	+ 6		 				8.00
Cord	2871	4	4.6							8.00
Cordage	2872	41		1.6		 				8.00
Cordate	2873	5	+4	44		 				8.00
Corded	2874	51	11					 		9.00
Cordelia	2875	6		**		 				10.00
Cordial	2876	$6\frac{1}{2}$	34	44						11.50
Cordially	2877	7	**	44		 		 		14.00
Cordon	2878	8	41	60						18.00



		140	una,	Long IV	v	34	٠.							
Cordovan	2879	3	Inch,	per dozer	1.									4.20
Corduroy	2880	34	**	14										4.20
Cordwain	2381	4	* 1	11										4.20
Corelation	2882	44	4.6	37										4.20
Corinne	2883	5	4.4	4.6										4.60
Corinthian	2884	51	**	4.1				 						5.40
Cork	2885	6	**	41				 						6.20

Bernard's Combined Parallel and Cutting Pliers.



Code Word.	List No.	Length.	Will Cut.	Width be- ween plying aws when open.	Lis Price Per doz
Beholder	3789	4½ in.	No. 9 B. & S. Wire.	¼ in.	\$11.50
Beholding	3790	5½ "	No. 7 B. & S. Wire.	3/8 ''	14.50
Behoove	3791	6½ "	No 5 B. & S. Wire.	36 11	17.50
Belabor	3792	7½ "	No. 3 B. & S. Wire.	34 "	24.00



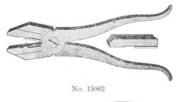
Bernard's Parallel Pliers.

Consummate	2688	41/2	inc	h.,										7.00
Consumption	2689	51/2	6.4											9.00
Consumptive	2690	61/2	**											11.50
Contact	2691	71/2	11											15.00



Hall's Telegraph Pliers.

Meclakling	15060	8 inch	14.40



Mecosta	15062	8 inch	21.60
---------	-------	--------	-------

No. 15063.

Fixture Pliers.

Mecham	15063	6 inch	9.00



Rubber Handles for Pliers.

															Pairs.
Constrictor	2680	5	incl	h.											 17.00
Constructure	2681	6	**												23.00
Consular	2682	7	**												28.80
Consulate	2683	8	**										. ,		 36.00

	(1)	Spli	icing	Clamps or Connectors.	
03/2/2	No. 8632.	Code Word.	List No. 8632		Price. Pair 2.00
Q1:14	M. KLEIN & SON No. 8633.	Contagious	8633	For No. 6 and finer wire	2.00
O ###	M.KLEIN & SON No. 8634.	Contain	8634	For Nos. 4, 6, 8 and 9 wire	2.00
0==	M. KLEIN & SON No. 8635.	Contained	8635	Copper jawed, for Hard drawn copper were No. 8 and finer	3.00
	M.KLEIN & SON. No. 15065.	Mecede	15065	Combination No. 2 and McIntire connector	2.35
Ø#4 <u>#</u>	M. KLEINR. SON No. 15066.	Medeira	15066	Railroad, for Nos. 0, 2 and 4 wire	2.00
04:14	MKÉEIN & SON. No. 15067	Medfield -	15067	For McIntire joints	2.00
Ø##	M.ELEINESON No. 15068.	Medford	15068	Seven inches long, for No. 9 to 16 wire	1.85

	Vom	Clef	f Splicing Clamp	os.
No. 15070	Code Word. Mediapolis		4-Hole, per pair \$	t Price.
No. 15071.	Medione	15071	2-Hole, per pair	1.80
	McIn	tire's	Twisting Clam	ps.
No. 2673	Effect		Compressing and cut- ting pliers, for No. 10 to No. 20 wire, per pair	2.00
No. 2674.	Effective	2674	Twisting clamp for No. 8 to No. 16 wire, per set of 2 pair	3.50
No. 2675.	Effectual	2675	Twisting clamp for No. 4, 5 and 6 wire, per set of 2 pair	4.50
No. 2676.	Effected	2676	Twisting clamp, for No. 00 to No. 6 wire, per set of 2 pair	8.00
>		(Climbers.	
No. 2515.	Milbury Mildale		Western pattern, per pair, no straps Straps, per set of four.	2.00 I 00
No. 2517.	Millán Mimico-		Eastern pattern, per pair. no straps. Straps. per set of four.	3.00 1 00
No. 2517.				

My mississim Mis

No. 15075.





No. 15077.



No. 15078.



No. 3496.



No. 2520.



No. 15080.

Double Steel Splicing Wrench.

For Iron Wire or Heavy Copper Wires.

We keep in stock two sizes, one for 4 and 6 wire and one for 8 and 9 wire. These wrenches are accurately fitted for the respective wires and will make a tight, clean splice. We have made them for as large as 00 wire.

 Code Word.
 List No.
 List Price.

 Medon
 15075
 For stock sizes, each........................\$ 1.05

Price large size on application.

Steel Tie Wrench.

For Hard Drawn Copper Wire.

The purpose of this tool is to make the tie around the line wire, where it is fastened to the insulators. It will wind the tie wire around line smoothly without marring same.

Combination Lag-Screw and Nut Wrench.

Steel Lag-Screw Wrench.

This wrench is very convenient for drawing up lag-screws through cross-arms; the jaw is made tapering to accommodate variations in bolt heads.

Coe Wrenches.

Blunted	3496	6	inch,	per doz	en	9.00
Blunting	3497	8	4.4	**	*************	10.00
Bluntly	3498	10	4.4	**		12.00
Blur	3499	12	6.6	+ 4	*********	14.00
Blurred	3500	15	6.6	4.6		24.00
Blurring	3501	18	4.6	**		30.00

Tree Trimmers.

Minburne)	2520	Regular, each	2.50
"Minden	2521	Extra heavy, each	3.00

Mellon

15080 Vom Cleff, each......

3.00



Electricians' Hammer.

Code Word	List No.		List I	Price. ich.
Mendon		9-0%	. \$.65





Nail Hammers. Plain Eye.

Mewdota	15116	12-oz	.50
Menlo	15117	15 4	.55
Mento	15118	18 "	.60
		Adze Eye.	
Meridith	15120	13-oz	.70
Meredosia.	15121	16 ",	.75
Meredo	15128	20 "	.80



No. 15122.

Hatchets.

feridan	15122	Cut 312	inches	.80
<i>feridia</i>	15123	Cut 41/4	*********	.90



No. 15124.

Hand Axes.

Merigold	15124	434	inch	cut	1,25
Merom	15125	5			L45
Merian	15126	51/2	4.0		1.55
Merricourt	15127	6			1.80



Linemen's Axe.

ian	15130	With handle	1.25
ше			1.00

No. 15130.





Carrying Hooks.

Code Word. List No. List Price. Skill 24064 With Swivel, each. \$3.00 Length of handle, 4 feet.

Cant Hooks.

Skilled 24065 Length 4 feet, each..... 2.25



No. 24065.

No. 24075.

Wood Handle Tamping Bars.

. Skinch 24075 Hardwood, iron shoe, per doz...... 25.00





Jenny Pole Support.

Mule Pole Support.

Skink	24078	41	feet,	each								5.00
Skinless	24079	6	66	66								6.00
Skinner	24080	71	44	44								7.00
	Lie	rht.	and v	erv s	tre	'n	16	r				



No. 24099.

Eccentric Clamps.

Skeed

24099 For No. 9 wire and finer,

per doz 16.00



No. 24081.

Dicke Tools-(Continued.)

Common Reel.

List Price. Code Word. List No. Skimniness 24081 Complete with Pins \$10.00



Combination Pay=Out Reel.

24082½ Each 16:00



No. 24083.

Take-Up Reel.

Skip24083 12-inch Reel 20.00 Skipper 24084 18-inch Reel 22.00

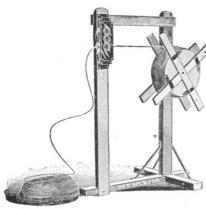


Dicke Lock Ferrule Screw Driver.

Blades forged from finest tool steel, Polished Malleable Ferrules, Fluted Handles.

Length of Blade	$2\frac{1}{2}$	3‡	4 ½	51	61	84	101	$12\frac{1}{2}$			
Cabinet, per doz	\$3.00	\$3.50	\$4.50	\$5.50	\$6.50	\$8.00	\$9.50	\$11.00			
Length of Blade	21	31	4	5	6	7	8	9	10	11	12
Machinists, per doz	3.00	3.50	4.25	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00

Blades and Handles of the Dicke Screw Driver are warranted not to turn in the ferrule.



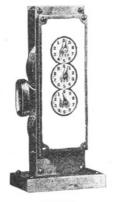
Wire Reel and Meter.

The accompanying cut gives an idea of our Wire-Measuring and Reeling Device. It will save time and money and a short use will demonstrate its great value.

In the meter the wire passes between two self-adjusting rellers, which admit of a wide range, and will measure accurately either large or small wire. The pointers
are movable and readily adjusted to the zero point.
Parties handling wire, either as supplies or for construction work, cannot afford to be without this device, as it
will pay for itself in a short time.

Code Word. List No. List Price Sisting 24001 Meter, with Reel, each. \$25.00





No. 24002.

Wire Meter for Counter.

The meter is also made, mounted on a neat base, to be used on a counter where a reel is not needed. For wire factories and dynamo builders the meter alone is invaluable.

Sit 24002 Meter, without Reel, each 16.00

Cable Meters are made to order only, and are applicable for measuring cables of all sizes, rope or steel cables.

Special prices quoted on Cable Meters.



Sheffy Pipe Wrench.

It is quick acting, self-adjusting and has but three parts—It is so constructed that it cannot lock on the pipe, will disengage itself by reversing the lever—It cannot slip as the stronger the effort to turn the pipe the firmer the grip—It cannot be abused by using on larger pipe than the size designated by number. All parts interchangeable

The construction is so simple that it appeals to the mechanic at once No screws or springs and self-adjusting.

To operate the Sheffy Pipe Wreuch, open the jaw, hook on the pipe, pillon the handle. This brings the lever up against the dog and creates the grip. The stronger the pull on the lever the stronger the grip.

Length and Dimensions

	U	1	2	3	4
	7 inches	9 inches	12 inches	15 inches	18 inches
Pipė,	½ to ½	l to i	1 to 1	1 to 11	1102

Price List Wrenches and Parts.

		()	1	2	- 3	4
Wrench,	List.	\$2.00	\$2 00	\$2 25	\$3.00	\$4 00
Handles, Jaw,		.50	.50	.60	.70	1 00
Dog,	**	.60	.00	.70	80	.90

"Vulcan" Insulated Screwdrivers.

Nos. 1164 and 1168.

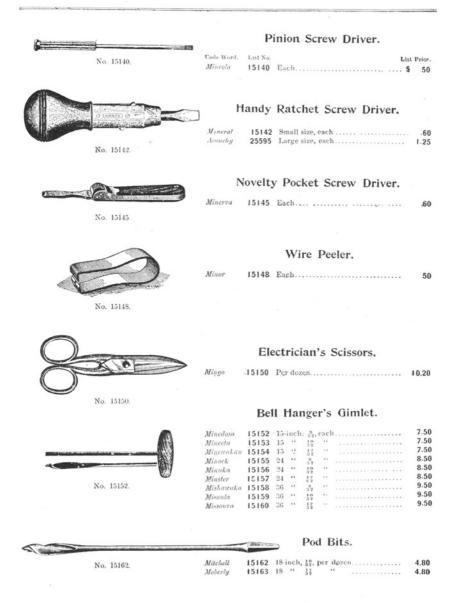
MOULDED MICA INSULATION.

Catching	1164	21	inch,	per do:	zen	6.00
Catchword	1165	$3\frac{1}{2}$	**	"		7.00
Catechise	1166	4	44	**	************	8.00
Catechised	1167	5	**			12.00
Catechism	1168	6	++	**		13.50

Champion Screwdrivers.



Luff	2554	21	inch,	per doz	en.	 				,			3.00
Luggage.	2555	3	**	***									3.50
Lugger	2556	4	44	41					. ,		,	,	4.25
Luke	2557	5	**	**		 							5.00
Lull	2558	.6	**	**									6.00
Lullaby	2559	7	4.	**		 							7.00
Lulled	2560	8	**	4.4									8.00
Lumbago	2561	9.	4+	**									9.00
Lumbering	2562	10	.00	-									10.00
Lumberingly	2563	11	. 11					,					11.00
Luminary	2564	12	**	**						 			12.00





The "Syracuse" Electricians' Drill Bit.



THE NUMBERS INDICATE THE SIZES IN 32DS OF AN INCH.

No.	12 Inch. Per Doz.	No.	18 Inch., Per Doz.	No.	24 Inch, Per Doz.	No.	30 Inch. Per Doz.	'No.	36 Inch, Per Doz.
6	\$5.00	6	\$7.00	6	\$9.00	6	\$11.00	6	\$13.00
8	5.00	8	7.00	8	9.00	8	11.00	8	13.00
10	5.50	10	7.50	10	9.50	10	12.00	10	13.00
12	6.00	12	8.00	12	10.00	12	12.00	12	13.00
14	7.00	14	9.00	14	11.00	14	13.00	14	14.00
16	8.00	16	10.00	16	12.00	16	14.00	16	15.00
18	9.00	18		18	13.00	18	15.00	18	16.00
20	10.00	20	12.00	20	14.00	20	15.00	20	16.00
22	11.00	22	13.00	22	15.00	22	16.00	22	17.00
24	12.00	24	14.00	24	16.00	24	17.00	24	18.00
26	13.00	26	15.00	26	17.00	26	18.00	26	18.00
28	14.00	28	16.00	28	18.00	28	19.00	28	19.00
30	15.00	30	17.00	30	19.00	30	20.00	30	20.00
32	16.00	32	18.00	32	20.00	32	20.00	32	20.00
34	17.00	34	19.00	34	20.00	34	20.00	34	20.00
36	18.00	36	20.00	36	21.00	36	21.00	36	21.00



Adjustable Malleable Iron Handles.

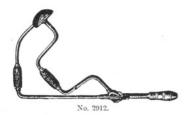
FOR USE WHERE A BRACE IS INCONVENIENT.

List Price.



Automatic Boring Tools.

List No. 2353 Automatic Boring Tool, with 8 Drills, each...... 2.00



Amidon's Patent Corner Bit Brace.

Code Word.	List No						I.	ist Price.
Conjugation	2913	8	**	**	**	per de	oz	\$40.00
Conjunct	2914	10		**		44		44.00



Braces-Ratchet.

Conjunction	2916	6-	inch	sweep,	per d	02	30.00
Conjunctive	2917	8	11	**	4+		33.00
Conjunctly	2918	10	1.	.64			36.00
Conjuncture	2919	12	**	**		,	39.00
Conjuration	2920	14		**	**		42.00



Braces-Plain.

Conjure	2944	G-	inch	sweep	, pér d	oz	10.80
Connurer	2945	S		**			11.80
Connatc	2946	10			.**		12.25
Connect	2947	12					13.68



Draw Knives

Melhorn	15085	12-	inch	blade,	each	per doz	11.50
Melrin	15086	14		**			13.00



No. 1748.

Saws.

Connected	1748	14-	inch	oanel saw,	per de	oz	16.00
Connivance	1749	16	**	. 4	10		17.35
Connive	1750	18	1.1		**		18.75
Connivency	1751	20	**	5.4	11		20.00
Connivent	1752	22	+4	4.6	11		21.50
Conniver	1753	24	11	-	**		22.75



No. 15165.

Inspector's Tools.

Code Word.	List No.	Lis	t Price.
Modena	15165	Complete set in Moroccocase, containing everything neces- sary for adjusting telephone apparatus, telegraph and stock-printing instruments,	
		etc \$	5.50
Modesta.	15166	Case, only	1.50



Combination Handles.

Mohawk 15170 Large size, complete...... 1.75



Molton

15175 11 Tools, complete......... 1.25



Pipe Cutters.

Blighting	3832	Knife,	No.2	8.00
Blind	3833	**	" 3	16.00



Porter's Wire Cutters.

	Behole	3787	Porter's Easy Wire Cutters, will cut 3%-inch wire, each	5.00
	Behol	den 3788	Porter's Easy Wire Cutters, will cut Wineh wire, each	
	Bodil	y 3527	Heavy Wire Cutters, will cut	
No. 3787.			3%-inch wire, each	. 9.00

Code Word. List No.

Cold Chisel.

List Price

No. 15180.	Momence Mona Moncure Monclova	15181	%-inch	3.00 3.75 4.50 5.25
No. 15185.	Nonster Mondamin Mondola	15185	tet Framing Chisel.	8.00 10.00 12.00
No. 15190	Monnes	15190	Brick Drills.	18.00
No. 15191.	Monetta		Hollow	10,00
No. 15192.	Moneka		Floor Groovers.	12.00
No. 15193.	Monnette	15193	With removable knife	14.00
	Monon	15195	With sinker	20.00

No. 15195.

Montello



No. 15200

Tool Belt.

		1		Price
Code Word.	List No.		F	Cach
Monongah	15200	 	\$	1.25



No. 15201.

Linemen's Tool Bag.

Monongahe	la 15201	Canvas	3.00
Monroe	15202	Leather	3.75

Tape Lines.

Sole Leather-Cases.

Monrovia	15205	256	entp	er d	0Z	21.00
Monsin	15206	50	4	**		31.80
Montague	15207	100	4	a		50.40
	1	sses	SI	kin,	Brass Bound Case.	
Montandon	15210	25 €	eet p		oz	
Montclair	15211	50	*	+6	*************************	8.00
Montbello	15212	75		44		10.00





Line=Tapping Clamps.

M.mteman	15015		4.00
Monteray	13213	 	4.00

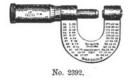


Pole Counter or Tally Register.

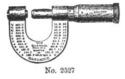
Montevale	15216	 3.00
Montecute	13210	 3.00



Constitutive	8624	American	Standard	Wire Gauge,	0	to	36.	eacl	h	\$ 2.50
Constrain	8625		· a	er	5	"	36,	16		2.00
Constrainedly	8626	English	**	**	1	**	36,	t.i	3.4	2.00
Constraining	8627		èc	"	6	11	36,	- tr		1 50



Constrict	2392	Micrometer Caliper measures from .001 to	ı
		inch, each	5.00
Casual	2393	Micrometer Caliper, measures from .001 to 1	-
		inch in morocco case each	5 75



Constraint	2527	Micrometer Caliper, measures from .001 to .5	
		inch, each :	4.50
Casually	2528	Micrometer Caliper, measures from .001 to .5	
		incli, in morocco case, each	5.00



No. 3205.

Soldering Apparatus and Supplies

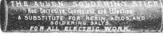
W. E. Soldering Salts.

Code Word.	List No.									L	ist Price
Arbitrate	3205	In 1	pound	bottles,	per pound				. 1		\$0.75
Arbitrator	3206	In 1		66	44	 					65
Areade	3207	In 5	66	44	44			 			.50

The S. S. Soldering Paste.

The Paste being in a soft, plastic condition, can be applied to the metal to be soldered in quantities just sufficient for the purpose. After an application of this paste the solder flows easily. The paste will not tarnish or corrode the metal.

Solemnizer	24457	$\frac{1}{2}$	pound	boxes,	per pour	nd	1.40
Solemnly	24458	1	66	44	46		1.30



No. 24459.

The Allen Soldering Stick.

Solemnness 24459 Per stick....

Star Soldering Stick.

1constics	25596	Per stick	 		.25



Soldering Coppers, Pointed.

Blustrous	3513	2	pounds to	the pair, per	pound	,		 				
Boar	3514	3	66	"	66				 			
Board	3515	4	66	66	66							
Boardable	3516	5	66	44	66				 			
Boarded	3517	6	44	44	44							
Boarding	3518	7	44	ks	44							
Boast	3519	8	44	44	44	,						
Boaster	3520	9	"	44	44							
Boastful	3521	10	44	66	366							



No. 3338.

Solder.

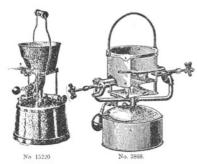
AT LOWEST MARKET PRICES.

Concoler 3338 Strictly Half and Half



No. 3339.

Concomitant	3339	Wire Solder
Concord	3340	Rosin Core Solder



Soldering Apparatus-(Continued).

List Price. Code Word. List No. Each. Monterideo 15220 Combination Hot Blast Furnace..... \$ 10.00 Holds 1 gallon of oil

Binominal 3868 Helper's Firepot. Can also be used as a reversible torch..... 18.00

Charcoal Soldering Furnace.

		I	ist Price.
Code Word.	List No.		Each.
Montgomery	15222		5.00

Combination Soldering Torch.

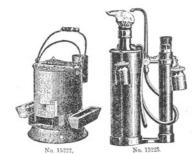
For Alcohol.

3.00

Montcell 15225 This torch can be carried in the pocket or tool bag The handle contains a vial for acid, doing away, with carrying an extra acid bottle. The blow-pipe is adjustable and the wick large. It is made entirely of brass and

highly polished.

Montecello 15230 Wellington Torch..... 7.50





No. 15230

No. 23116.

Soldering Apparatus—(Continued.)

Imperial Hot Blast Gasoline Blow Torch.

This torch is made especially for burning paint, thawing pipes, burning lead, etc. It generates a blue flame of 1500 degrees F. The size and power of the flame can be increased or turned down to suit the work. The tank holds 11 pints of gasoline, and is made of the best drawn brass, of 18 gauge, is seamless and highly polished. The diameter of the tank is 41 inches, and the height to top of burner is 9 inches. It weighs 3 lbs. It is equipped with a brass pump, which has strong detachable connections, and a simple accessible valve. The torch will burn in any position, and consume 1 pint per hour at full blast and will not blow out in the wind. The tank has a coneshaped bottom, giving additional strength. These torches are fully tested and warranted.



No. 23117.

Code Word. List No.

Simplify

23116 Imperial Torch...... \$5.00

Braziers' Hot Blast Blow Torch.

For Gasoline.

For brazing and tempering small tools and springs, soldering patterns, and annealing brass and other metals, heating soldering coppers, glue, burning off paint, general bench, furnace work, etc.

Simplice

23117 Braziers' Torch.....



The Combination Hot Blast Blow Torch.

For Gasoline.

Three useful tools in one: a brazier, soldering iron heater, and blow torch for plumbers, electricians and conduit workers. Will not blow out.

No. 23118.

Simply

6.00



Soldering Apparatus—(Continued.)

The Electric "Hot Blast" Blow Torch.

For Gasoline.

It produces a solid blue flame. Weighs two pounds when empty, three pounds when filled. Is very strong as well as light, Will burn in any position.

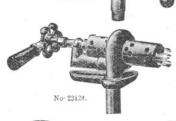
Code Word.	List No.			Li	st Price Each.
Similar	23119	Hot	Blast Torch.		



No. 23120.







No. 23126 and 23127.







No. 23128.



Repair Parts to Torches.

Simulate	23120	No. I. Air Pump, complete for Hot Blast Torches Imperial Torches Brazier's Torches Combination Furnaces
Simulty	23121	No. 2. Lower Bracket for Pump
Sin	23122	No. 3. Upper Bracket for Pump
Sinnic	23123	No. 4. Burner for Imperial Blow Torch, complete
Sinaitic	23124	No. 6a. Burner for Brazier's Blow Torch4
Sinapie	23125	No. 9. Filler Cap for Blow Torches
Sinapine	23126	No. 10a. Needle Valve Seat for Im- perial and Brazier's Torch
Simpis	23127	No. 10b. Needle Valve Seat for Com- bination and Tinner's Furnace
Simpism	23128	No. 11a. Large Packing Nut for Im- perial Brazier's Torches
Since	23129	No. 12a. Large Drip Cup for Imperial and Duplex Torches, and Combination and Tinner's Furnaces
Sindon	23130	12b. Large Drip Cup for Braziers Torch
Sine	23131	No. 14. Air Valve for Screw and Packing Nut for Imperial and Braz- ier's Torches
Sincerre	23132	No. 16. Perforated Burner Tube for Imperial Torch
Sinepite	23133	No. 16g. Perforated Burner Tube for Brazier's Torch
Sincer	23134	No. 20. Needle and Packing Nut for



Soldering Apparatus—(Continued)

 Code Word.
 List No
 List Price.

 Archangel
 8649
 Vulcan Torch, each.
 \$10.00



No. 8652.

Christened 8652 Economic Flux Bulb, for soldering acid, each .. 2.25



No. 8658.

Christening	8653	Alcohol B	low Lamp	. small siz	e, cac	h		1.25
Christian	8654		**	regular	r size	eac	h	1.50
Christianity	8655	44	44	large	ii.	4 5		2.00
Christmas	8656	**	- 11	extra	16	16		2.50



Soldering Apparatus—(Continued).

Code Word.	List No.		List	Price.
Decouring	2388	Walsh Blow Torch, each	. \$	6.00



Uhlich Soldering Pot.

15245 Each. 7.50





Christi	8650	Lineman's Torch, tin, each	1.85

Carabine 2550 Solder Ladles, 21/2 inch. per dozen...... 2.75

2551 " \$ " "

4 "

" brass, each.....

3.50

4.75

6.50

No. 2550.

Solder Pots.

Caravan

Cardine

Careen

Christopher 8651

2552

2553



Blushfully	3507	6 1	nch	diameter,	per dozen	 5.20
Blushing	3508	61/2	**	4.47	**	 5.50
Blushless	3509	8	**	**	**	 10.00
Bluster	3510	9		5.5	0	 12.00
Blusterer	3511	103	· ·	**	- 0	 16.00
Blustering	3512	133		- 0	41	 32.00

Station and Workmen's Supplies.

Tape.

IN 1/2, 3/4, 1, 11/2, 2 AND 3 INCHES.



Code Word.	List No.						Lis	t Price.
Beamlet	3638	Grimshaw, black, p	er pound	1			 	\$1.10
Reamtree	3639	" white,	66			 	 	1.00
Beamy	3640	Competition, black,	44				 	.75
Bean	3641	" white,	"					.75
Beancaper	3642	Okonite, black,	66				 	2.00
Bean cod	3643	Manson, black,	44			 	 	1.40
Beanfed	3644	" white,	66				 	1.40
Beanfly	3645	Paragon, black,	66			 	 	.60
Beangoose	3646	Tenax, black,	"			 		.60
Bear	3647	" white,	44			 	 	.60
Calamity	3623	Century Tape,	"			 	 	.90
Creased	8746	Kerite " per i	oll			 	 	.95
Solen	24460	Sampson Friction T	ape, per	pound	1,		 	.75
Solenacean	24461	Clifton Tape,	6			 	 	.75
Solenaceous	24462	Simplex,	61			 	 	.75
Soleness	24463	B.W.H.	6	c				.85

Splicing Compound.

Bears	3731	Chatte	rton's An	nerican, per	pound.				 1.60
Bearable	3732	,66	Im	ported	"			٠.	 2.00
Beard	3733	Tenax	Splicing	Compound,	in rolls,	per	pou	nd	 1.00
Solenite	24464	Para	44	44	66		66		1.25



Gale's Commutator Compound.

Code Word.			Li	st Price
Solarize	24438	Per Stick		\$0.75
Solary	24439	Per Dozen		8.00

Crolius Commutator Compound.

.50



Kester's Commutator Compound.

No. 8701.

.25



Hoffman's Rod Polish.

Will not wear the lamp rod. It is in the form of a powder, put up in tin boxes, and easily applied.

Soldanel



No. 24442.



No. 24445.

Rubber Gloves.

Soldanrie	24442	Regular	Rubber,	no cuffs, per	dozen	13.00
Soldier	24443	44	44	with cuffs,	"	16.50
Soldiering	24444	Heavy	66	no cuffs,	"	24.00
Soldierly	24445	"	66	with cuffs.	"	30.00



Hard Rubber Sheet.

Size of Sheets 20x48 inches.

Code Word.	List No,	Thi	ckness.	wei	oximat ght of sheets.							Price.
Hyattsville	13210	32	inch	11/8	pound	d	 	 		 	\$	2.10
Hyndman	13211	16	**	234	44		 	 		 		2.00
Hyndsville	13212	3 2		37/8			 	 		 		2.00
Iberia	13213	10	**	43%			 	 		 		2.00
Icamole	13214	1/8	4.6	51/2	**		 	 		 		2.00
Idalia	13215	5.2	13	6	**		 	 				2.00
Idlewild	13216	16	0.	71/2			 	 		 		2.00
Ignacio	13217	1/4	4.6	101/2	**		 					2.00
Ilion	13218	5	61	1314	66		 	 		 		2.00
Illiopolis	13219	3/8	4.6	161/2	4.		 	 	 			2.00
Independence	13220	7	44	1834	+6		 	 				2.00
Indianola	13221	1/2	41	22	+ 6		 	 				2.00
Ingrams	13222	16		24	**		 	 				2.00
Ingalls	13223	5/8	- 61	27	4.6		 	 				2.00
Ingalton	13224	34	41	32	4.6		 	 				2.00
Ingersolt	13225	7/8	**	35	4.6		 	 				2.00
Ingleside	13226	1	44	40	**		 	 				2.00
Inkseter's	13227	114	**	50	4.6		 	 	 			2.00

Vulcanized Fibre Sheet.

Size of Sheets 40x70 inches.

Indian Red or White.

For convenience in shipping we prefer to cut sheets in halves or quarters

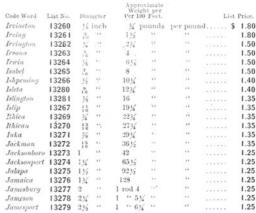
		Thic	knes	s.													
Interlochen	13235.	160	inc	h.								 					.60
Inwood	13236	84	46														.60
Iola	13237	3 2	**	e.													.60
Ione	13238	16	**			 											.50
Ionia	13239	1/8	16														.50
Ipava	13240	1/4	+ 5														.50
Ipswich	13241	1/2	46														.50
Iredell.	13242	20	4.6								ī						.60
Ironation	13243	34	4.6														.60
Irondale'	13244	7/8	**			 						 ,					.60
Ironton	13245	1				 								,			.65
Irolo	13246	114															.65
Iroquois	13247	1½	* *														.75

Black, 5 cents per pound advance.



Hard Rubber Rods.

In lengths of 30 inches.



Vulcanized Fibre Rod.

Red, Random Lengths.

		Dia	meter.											
Jamestown 13	285	14	inch,	per for	it									
Jamison 13	286	16	6 1	4.6		.)								
Jaral 13	287	3/8		61							٠.			
Jarvis 13	288	13	61	4										
Jauden 13	289	70	6.2	4										
Jeddo 13	290	1/2	4.4	**										
Jefferson 13	291	17	11	4.6										
Jenkintown 13	292	9	6+	1.6										
Jennings 13	293	36	4.	44 -										
Jenny 13	294	14	44	**										
Jericho 13	295	14		44										
Jermyn 13	296	7/8	1.5	11										
Jerome 13	297 1			4.4										
Jerusalem 13	298 1	14	**	**										
Jesup 13	299 1	3/8		4.4										

Black fibre can be furnished on application.

Hard Rubber Battery Cells.

The sizes given below are inside dimensions, the thick-

ness of the shell 4 juch.
These cells are all plain except the No. 13,994 which
has a shoulder near the top for cover—the price on cells
is without cover. The inside dimensions are given at the
bottom and on account of the taper allowed for the mandrel the dimensions are slightly greater at the top, about
\$\frac{3}{2}\$ inches.

Code Word.	List No.								List Price
Livermore	13993	2.1	x	6-1	X	9.1	inches	high	\$1.50
Livingstone	13994	2-4	x	4.9	x	10-1	**	64	1.50
Livonia	13995	3.3	х	3.4	x	6-1	**	14	1.00
Llano	13996	5	х	5	х	7-1	49	44	1.5"





Tubing.

Hard Rubber Tubing.





			-				
Code Word,	List No.		atside iam.		nside iam.	Approx. No. of Feet per lb.	Price. pound.
Bloat	3481	3/8	inch.	1/8	inch.	20	\$ 1.20
Bloated	3482	1/2	++	1/4	4.1	14:	 1.20
Bloater	3483	1/2	** .	16	*4.	16	 1.20
Blobber	3484	58	**	3/8		10	 1.20
Blitheful	3485	34		1/2	* *	8	 1.20
Blithely	3486	7/8	**	5%	1.1	8	 1.20
Blithesome,	3487	1	**	34	**	6,	 1.20
Binnacle	3488	11/8	**	7/8	11	6,	 1.20

Vulcanized Fibre Tubing.

Length about 22 inches, 1s to 3/8-inch walls.

		nside)iam.															
Jewett	13310 14	inc	h														1.0
Joab	13311 3/	**															1.0
Jobstown	13312 1/2	**															1.0
Johnston	13313 5	**															1.0
Johnson	13314 34																1.0
Jolley	13315 1	**				,											1.0
Jonesboro	13316 114																1.0
Joplin	13317 -11/	**													 		1.0

Okonite Tubing.

				of Feet	x. ? per	lt).							
Allowance	3249	1/8	inch.	35	fee	t.								2.
Allowing	3250	14	4.6	17	+ 6									2.
Alloy	3251	60	11	14										2.
Alloyage	3252	3/8	**	111/2	+ 6									2.
Alloyed	3253	1/2	**	10	• •									2.
Allo	3254	58	**	8	1.6									2.
Allspice	3255	34		4 1/2										2.
Allude	3256	7/8	1.1	4										2.
Alluding	3257	1	44	3	+ 5									2.



Soft Rubber Tubing.

			nside		C	overs Wire.	. of I	pprox. No. Sect per 1b.	
Branding	3475	1/8	inch.	No	. 20	B. & S.	G., Ins.	100	1.35
Brandy	3476	10		**	14	1.6	4.6	50	.85
Bravado	3477	14	+1	1.4	10	**	7.1	20	.85
Brave'	3478	5	.00		G	4.3	13	15	.85
Bravely	3479	38	**	**	4	1.5	4.5	12	.85
Bridget	3480	1/2	**		0	**	.63	9	.85



Insulating Paints.

Capitation	3347	P&R	Paint, 1 gall	on cans	ner mal	lon	1.50
Capitalate	3348	61	" 5	**	in Bu		1.40
Capon	3349	4.6	" barre	l lots.	1.6		. 1.25
			Armala	ac.			
	For Ins	ulating	Field Magn	ets and	Arma	atures.	
			d waterpro				1-
			ed and unva				
Code Word.	List No.			Bbls. Per Ga	1.	Half Ebls.	Cans.
Covenant		Armalac	2	\$1.6		\$1.75	\$2.00
			Insulla	ac			
	Is a ra	nid drvi	ng orange o	olored is	nsulati	ng varnish	1.
			nsulating pr				
		lubricati	ng oils. D	ilute with	h insu	llac thinne	r
	only.			Bbls.		Half	Cans.
Copyist	8729	Insullac		Per Ga		\$1.75	\$2.00
Copyin	0,20					VIII 0	V2.00
		Insi	ıllac Th	inner			
			ilutant for				
		A D	nutant for			Walf	
			m, .	Bbls. Per Ga		Half Bbls.	Cans.
Gertrude	1888	Insullac	Thinner	\$1.3	5	\$1.45	\$1.70
			Ename	lac			
			highly-lustro ood or iron				
	servativ		000 01 1101				
				Bbls. Per Ga	ıl.	Half Ebls.	Cans.
Copyholder	8730	Enamei	ac	\$0.8	0	\$0.90	\$1.00
			Wast				
			wast	е.			
Cask	3999	Best Qu	ality Cotton	Waste, p	er pou	nd	15
		C	rocus C	loth			
	0.2010.000			Will.			90
Cousin	8726		eam				05
		16	eard				. 10.00
		-	A also at				
			Asbest	05.			



Cove



Standard Price List Electrical Mica.

Size.	Price per 1b.	Size.	Price per lb.	Size.	Price per 1b.	Size.	Price per lb.	Size.	Price per lb.	Size.	Price per ll
1 <u>1</u> x 3	\$ 0 60	2 x 2	\$0 60	21x 71	\$5 00	24x 5	\$5 00	31x 51	\$7 75	4½x 7	\$9 70
1½x 3	65	2 x 2	65	21x 8	5 50	24x 54	5 25	31x 6	8 50	4½x 8	10 00
1½x 3	70	2 x 2	70	24x 84	6 25	24x 54	5 50	31x 7	8 75	4½x 9	10 2
14x 3	75	2 x 3	75	21x 9	6 75	24x 6	6 00	31x 8	9 00	4½x10	11 2
14x 4	90	2 x 3	80	24x 94	7 50	24x 61	6 25	31x 9	9 50	4½x11	12 00
1½x 4	1 00	2 x 3	90	21x10	8 00	24x 7	6 75	34x10	10 50	4½x12	13 00
11x 4	1 15	2 x 3	1 00	21x11	8 50	2\$x 7½	7 25	31x11	12 00	5 x 5	8 5
1½x 5	1 50	2 x 4	1 20	21x12	9 50	2\$x 8	7 75	34x12	12 50	5 x 51	9 0
11x 5	1 90	2 x 4;	1 25	21x 21	85	24x 84	8 75	31x 31	4 50	5 x 6	9 5
1½x 6	. 2 40	2 x 4	1 40	24x 24	1 00	24x 9	9 00	3½x 3¾	5 00	5 x 64	9 7
11x 6	3 00	2 x 4	1 50	2½x 3	1 25	27x 91	9 50	3½x 4	6 00	'5 x 7	10 0
11x 7	4 00	2 x 5	1 75	24x 34	1 35	24x10	10 00	3½x 4½	6 25	5 x 8	10 2
11x 7	4 50	2 x 5	2 40	21x 31	1 50	24x11	11 '00	3½x 4½	6 50	5 x 9	10 5
1½x 8		2 x 6	3 00	24x 34	1 60	27x12	11 50	3½x 44	7 00	5 x10	11 0
11x 8		2 x 6	3 50	24x 4	1 75	3 x 3	2 50	3½x 5	7 50	5 x11	12 0
1½x 9	5 75	2 x 7	4 50	21x 41	2 00	3 x 31	2 75	3½x 5½	8 25	5 x12	13 5
1½x 9	6 50	2 x 7	4 75	21x 41	2 50	3 x 34	3 25	3½x 6	8 75	51x 51	9 2
$1\frac{1}{2}x10$	7 00	2.x 8		2½x 44	3 00	3 x 32	3 75	3½x 6½	8 75	54x 6	9 7
1½x11		2 x 8	5 75	2½x 5	3 50	3 x 4	5 00	3½x 7	9 00	51x 7	10 2
1½x12		2 x 9	6 25	21x 51	3 60	3 x 4	5 25	3½x 8	9 25	51x 8	10 5
14x 3		2 x 9	7 00	21x 51	3 75	3 x 41	6 00	3½x 9	9 50	51x 9	10 7
14x 3		2 x10	7 50	2½x 6	4 25	3 x 44	6 50	3½x10	10 75	54x10	11 5
14x 3		2 x11	8 25	2½x 64	4 50	3 x 5	7 00	3½x11	12 00	54x11	. 12 0
14x 3		2 x12		2½x 7	5 00	3 x 5	7 50	3½x12	13 00	54x12	13 5
14x 4		21x 2		24x 74	5 25	3 x 6	8 00	4 x 4	7 00	6 x 6	10 0
1 n x 4		21x 2		2½x 8	5 50	3 x 6	8 25	4 x 41	7 25	6 x 61	10 2
14x 4		21x 2		2½x 8½		3 x 7	8 50	4 x 5	7 75	6 x 7	10 5
14x 4		24x 3	1 00	2½x 9	7 00	3 x 8	8 75	4 x 54	8 50	6 x 8	10 7
1‡x 5		24x 3		2½x 9½	7 50	3 x 9	9 00	4 x 6	9 00	6 x 9	11 0
1%x 5		24x 3		2½x10	8 00	3 x10	. 10 50	4 x 61	9 25	6 x10	11 5
14x 6		24x 3		2½x11	8 75	3 x11	12 00	4 x 7	9 50	6 x11	12 0
14x 6		24x 4		2½x12	10 00	3 x12	12 50	4 x 8	9 75	6 x12	14 0
14x 7	100000000000000000000000000000000000000	21x 4		24x 24	1 25	3½x 3½	3 50	4 x 9	10 00	7 x 7	10 73
12x 7		24x 4		24x 3	1 75	34x 34	4 00	4 x10	11 00	7 x 71	10 73
15x 8	4 75	24x 44		2¶x 31		31x 34	4 50	4 x11	12 00	7 x 8	11 00
14x 8		24x 5	2 75	24x 31	2 25	31x 4	5 25	4 x12	13 00	7 x 9	11 23
14x 9	6 00	.24x 54		24x 34		31x 41	5 50	41x 41	7 50	7 x10	12 0
14x 9		24x 54		24x 4	3 00	31x 41	6 00	4½x 5	8 25	7 x11	12 50
14x10	7 25	24x 6	3 40	2ªx 44	3 25	31x 44	6 50	41x 51	8 75	8 x 8	12 00
14×11	8 00	21x 61		24x 44	3 75	31x 5	7 25	41x 6	9 25	8 x 9	12 50
17x12	9 00	24x 64		24× 44	4 25	31x 51	7 50	41x 61	9 50	8 x10	13 00
2 x 2	60	24x 7	4 75								



No. 3604

Galvanized Oil Waste Cans.

Self-Closing Cover.

WITH IMPROVED SPRING ATTACHMENT.

The "Iron-Clad" Oil Waste Cans are made without the use of Solder and are galvanized after being put together. They are recommended by the leading insurance companies. Round.

Code Word.	List No.		List Price.
Ancestral	3604	No. 1, 111x15 inches, per	doz\$18.00
		Round.	
		Made to Order Oni	y.

Dab	554	No.	2, 12x18	inches,	per de	oz	24.00
Dabble	555	" "	3, 13x20	**	44		28.00
Daft	556	**	4, 14x22	**	**		36.00
Dagger	557	**	5, 16x24	**	**		42.00
Daily	558	**	6, 18x26	4.4	**		56.00
Daintily	559	**	7, 2ux30	**	**		90.00
Daisy	560	**	8, 24x36	**	**		130.00

Rectangular.

					Length. In.	Width. In.	Depth. In	
Daker	561	No.	30,	per doz	20	15	20	70.00
Date	562	**	40,	**	20	18	24	90.00
Dally	563	**	50,	**	24	20	30	132,00
Damage	564	**	60,	61	26	22	80	140.00
Damaging	565	"	70,	**	28	24	34	170.00
Damask	566	**	80,	"	30	24	36	190.00

The Model Oil Filter.

It can be operated with or without heat, although it is preferable to use heat at all times, as it greatly facilitates the flow of oil, and assists in separating it from all sediment, grit and dirt.

The steam heating pipes are independent of filter. We place them on top of the stand, under the filter, where the coil gives all the heat required and can be easily connected or disconnected. By doing this we avoid all trouble that is caused by defective and leaky joints where steam pipes pass through wall of filter.

It is self cleaning, as it is so constructed that all dirt, grit and sediment in the oil as it passes through the separating chambers is trapped to the bottom and is drawn off through a waste cock.

The supply of waste oil to separating chamber can be regulated to feed fast or slow. All heavy or gummy oils require more time to filter than light

It can be used for an oil tank, for the clean oil chamber is large enough to hold all the oil required in an engine room.



Larger Sizes Made to Order.





Oiler Sets.

These T	Engineers'	Sets	are mad	e of heavy brass and handsomely finished.
Code Word. Blessing	List No. 3834		Pieces,	List Price. Brass\$6.00
Blest	3835	Six	**	" 9.00
Blight	853	Five	**	Nickel 8.00
Blighted	854	Six	**	"11.00

No. 3834.



Engineers' Fillers, Brass.

Blessedly	3838	Heavy	Brass,	One Quart, each	2.00
Blesser	3839	**	**	Two Quarts "	3.00



No. 3452.

Engineers' Fillers, Steel.

Blistered	3452	Pint Fillers, $4\frac{1}{4}$ in. diameter, $3\frac{1}{4}$ in. high, Screw
		Top, per doz14.00
Blistering	3453	Quart Fillers, 5 in. diameter, 5 in. high, Screw
		Top, per doz20.00

Brass.

Blistery	3450	1 Pint Fillers, 4 in. diameter, 4 in. high, Screw
		Top, per doz22.00
Blithe	3451	Quart Fillers, 5 in. diameter, 5 in. high, Screw
		Top, per doz30.00



No. 3840.

Steel.

Bled	3840	Steel Oiler,	41	in. diam.,	3 in	n. nozzle,	per-doz	. 9.25
Blemish	3841	-	41	46	9	**	**	.10.50

Brass.

Bless	3842	Brass Oilers,	41	in.	diam.,	3 i	n. nozzle,	per	doz	12.00
Blessed	3843	**	41		4	9	**			14.00

3851

Bleating



Oiler Sets-(Continued).

			Steel.					
List No.							Lis	t Price.
3844	Steel Oiler,	24	in. diam.,	$2\frac{1}{2}$	in. nozzle,	per de	oz	\$4.50
3845	**	3	**	3		**		5.50
3846	4.1	3	19	9		: "		6.50
3847	**	34	44	3	+ 6	4.6		7.50
3848	**	31	**	9	**	**	••	8.50
		1	Brass.					
3849	Brass Oilers	, 5	24 in. diam	., 2	in. nozzle	per de	oz	6.50
3850	**		38 "	3	**	4.4		8.00
	3844 3845 3846 3847 3848	3844 Steel Oiler, 3845 3846 3847 3848	List No. 3844 Steel Oiler, 22 3845	3844 Steel Oiler, 24 in. diam., 3845	List No. 3844 Steel Oiler, 2½ in. diam., 2½ 3845	List No. 3844 Steel Oiler, 2\frac{2}{4} in. diam., 2\frac{1}{2} in. nozzle, 3845 "3\frac{1}{2}"3 "3" 3846 "3\frac{1}{2}"3 "9" 3847 "3\frac{1}{2}"3 "3" 3848 "3\frac{1}{2}"9 " Brass. 3849 Brass Oilers, 2\frac{1}{4} in. diam., 2\frac{1}{2} in. nozzle,	List No. 3844 Steel Oiler, 2½ in. diam., 2½ in. nozzle, per de 3845	List No. 3844 Steel Oiler, 2½ in. diam., 2½ in. nozzle, per doz 3845

Upright Locomotive Oiler.

.. 9.20

The flow of oil from this is controlled by a valve so the oil only runs out when you press the thumb piece on top of the handle.

				1	Brass.		
Blast	3852	1	Pint,	Brass,	with valve,	per doz	en36.00
Blasted	3853	2	**	4.6	44	**	48.00
Blaster	3854	3	++	**	"	**	60.00
Blasting	3855	1	**	44	no valve	**	24.00
Blastpipe	3856	2	64	11	**	**	36.00
Blatant	3857	3	111	4.6		**	48.00
					min s		

					Tin.		
Biology	3858	1	Pint,	Tin,	with valve,	per doze	n24.00
Birch	3859	2	**	**	66	**	33.00
Birchen	3860	3	**	4.6		4.6	45.00
Bird	3861	1	**	4.6	no valve,	**	. :
Birth	3862	2	**	4.6	166	**	21.00
Blanche	3863	3	61	**	11	0.0	33.0u

Railroad Oiler.

		Steel.
Biographer	3864	Pint R. R. Oiler, 3 ⁸ in. diam., 5 in. high, 12 in. nozzle, per dozen
Biographic	3865	Quart R. R. Oiler, 4½ in. diam., 6 in. high, 18 in. nozzle, per dozen
		Brass.
Biographical	3866	Pint R. R. Oiler, 3§ in. diam., 5 in. high, 12 in. nozzle, per dozen
Biography	3867	Quart R. R. Oiler, 41 in. diam., 6 in. high, 18 in. nozzle, per dozen



No. 3852.



No. 3864.

CONSTRUCTION MATERIAL.



No. 2348

Insulators-Glass.

Code Word.	List No	. List Price
Elm	2348	Regular, per 1,000\$40.00
		Packed 250 in a barrel.



No. 2342



No. 2350



No. 2351

Insulators—Glass—(Continued)

 Code Word.
 List No.
 List Price.

 Eloquenee
 2351
 Pony, per 1,000
 \$22.50

Packed 300 in a barrel.



No. 2352

De les ambres de la constante del constante de la constante de la constante de la constante de

Billion

No. 3872

3872 Deep Groove, Double Petticoat, per 1,000...... 50.00 Packed 175 in a barrel.



Insulators—Glass—(Continued).

List No. Code Word.

Beamless

List Price.

Packed 165 in a barrel.





Elsewhere 2354 Pony, Double Petticoat, per 1.900...... 27.50

No. 2354



Emmeline 2334 National Pony, per 1,000...... 40.00

No. 2334



No. 2335



No. 15301.-

$Insulators-Glass-({\it Continued}).$

Hemingray.

Code Word.	ord, List No.		
Moravia	15300	No. 3, Regular	\$ 36.00
Morhead	15301	No. 7 Standard	32.00

Packed 250 in a barrel.



No. 15302.→

Morceni	15302	Standard, deep	groove	36.00
		Packed	250 in a barrel.	



No. 15305.

Morganton 15305 Deep groove, double petticoat....... 40.00
Packed 200 in a barrel.



No. 15308.-

Insulators—Glass—(Continued).

Hemingray.

List Price. Code Word. List No. 15308 Street railway, deep groove, double petti per 1,000. Morian coat \$ 50.00

Packed 200 in a barrel.



No. 15310 .-

Moro

15310 Western Union Double petticoat, teat.... 50.00.

The points or teats on the lower rim of the petticoat attract the water on the outer surface of the insulator into drops. The water drops from these points, thereby preventing the moisture from creeping up on the inner petticoat, and thence to the

Other insulators can be made in same manner at special prices.



No. 15812.-

Morell:

Packed 300 in a barrel.



No. 2336

Insulators—Glass—(Continued).

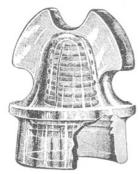


No. 9200-Open.

 Emulating
 9200
 Glass Oil Insulator, complete, iron pin, per 100.
 80.00

 Emulation
 9308
 " " wooden pin."
 50.00

The price for No. 9200 includes 10 quarts of oil and 5 pounds of hemp or oakum, and for No. 9308 includes 12 quarts of oil.



No. 9315.

Accomplice 9315 Cable Glass Insulator, per 1,000......140.00

Emulate



Insulators—Glass—(Continued).

Code Word. List No.

List Price. 6793 Double Groove Glass Insulator, per 1,000. \$82.00

No. 6793.



No. 2337

No. 1, Glass Insulating or Break Knob.

1½ inches long, 1½ inches wide, \$ inch hole.

2337 Per 1,000...... 20.00 Empty



No. 2338

No. 2, Glass Insulating or Break Knob.

14 inches long, 2 inches wide, 4 inch hole.

Emptying



No. 2339-

No. 3, Glass Insulating or Break Knob.

For insulating span wires, guy wires, arc lamps, etc. 24 inches long, 2 inches wide, ₹ inch hole.

2339 Per 1,000...... 40.00 Empurple



No. 24465.

Glass Insulators.—(Continued.)

Break Knob.

Takes a One Inch Cable.

 Code Word.
 List No.
 List Price.

 Soleplate
 24465
 Per 1,000
 \$80.00

 32 in, long; 23 in, wide.
 \$32 in, wide.

Liquid Insulator.

Solere 24446 Per 1,000 500.00

Made all in one piece.

Weight, per piece, 30½ ozs. Weight; per 100, packed, 2210 lbs. Packed 100 in a barrel.

Locke Triple Petticoat Insulators.

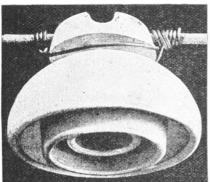
For High Voltages.

China Insulator.

Dimensions:-Diameter, 514 inches; Height, 3 inches.



No. 24446.



No. 24467.

Glass Insulator.

Dimensions:—Diameter, 4½ inches; height, 3½ inches; 8½ inches of surface between wire and pin.



No. 24468.



No. 3458



No. 3460.

Insulators—Porcelain.

The dimensions are as nearly accurate as possible, but owing to the fact that porcelain shrinks when baked, and the shrinkage is not at all times the same, Insulators may be a little larger or smaller than figures given.

• Groove, 3 in. deep, 8 in. wide.

Blissless	3460	Per 1,000	
		R. T. & Sons No. 6. $\frac{15}{16}$ in. wide and $\frac{11}{16}$ in. high. Groove, $\frac{1}{8}$ in. deep, $\frac{7}{3}$ in. wide.	

 Bilge
 1928
 Per 1,000... 4.00

 R. T. & Sons No. 8.
 $1_{1^k_6}$ in. wide, $\frac{1}{1^k_6}$ in. high.

 Groove, $\frac{1}{2^k_6}$ in. deep, $\frac{1}{2^k_6}$ in. wide

About 5,000 No. 5 fill a barrel. 500 are packed in boxes. When packed in boxes 50 cents extra per 1,000 is charged.





No. 1930.



No. 3462.



No. 3464.

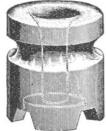
$Insulators-Porcelain-({\it Continued.})$

Groove, ‡ in. deep, ≩ in. wide.

About 2,000 to 2,300 make a barrelfull. 500 fill a box. 50 cents extra per 1,000 charged when packed in boxes.



No. 2575.



No. 1923.

Groove, 3 in. deep, in. wide.

Blunder

No. 3466.



No. 3648.

Insulators-Porcelain--(Continued.)

 Code Word
 List No
 List Price.

 Blubbering
 3468
 Per 1,000
 \$20.00

R. T. & Sons No. 15. 115 wide, 18 high. Groove, is in. deep. 8 in. wide

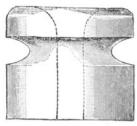


No. 1924.

Duzzle

Bilious

R. T. & Sons No. 24. 1\(\frac{1}{6} \) in, wide, 1\(\frac{1}{6} \) in, high. . Groove, \(\frac{1}{6} \) in, deep, \(\frac{1}{2} \) in, wide.



No. 1925.

Groove § in. deep, § in. wide.



No. 3470.

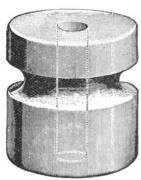
Insulators—Porcelain—(Continued.)

Code Word. List No. Bluffness

3470 .Per 1,000.....\$35.00

List Price.

R. T. & Sons No. 26. 25 in. wide, 12 in. high. Groove, 5 in. deep, 1 in. wide.



No. 1926.

Bilked

1926 Per 1,000 27.00

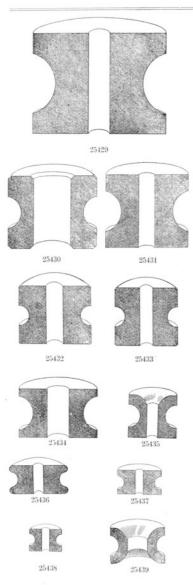
R. T. & Sons No. 2. 2 in. wide, 24 in. high. Groove, 15 in. deep, 7 in. wide.



No. 1927.

Bilk

R. T. & Sons No. 1. 2 in. wide, 3 in. high. Groove, ‡ in. deep, § in. wide.



Special Porcelain Insulators.

The figures as to dimensions and weight of Insulators is as accurate as the nature of porcelain will allow, and in actual practice results may vary a trifle.

	List No.					
Accessarily	25429	P101	Insula	tor		
3½ in	ches hig	h; 4 inc	ches wi	de; §	inch hol	le; 13 inch
groov	e. Wei	ght per	r 1000,	2780	pounds.	A barrel
conta	ins about	125				

Accessuriness 25430 P102 Insulator
24 inches high; 24 inches wide; 14 inch hole; inch
groove. Weight per 1000, 675 pounds. A barrel
contains about 400.

Accessury 25431 P103 Insulator
2\(\frac{2}{3}\) inches high; 2\(\frac{1}{2}\) inches wide; \(\frac{7}{6}\) inch hole; I\(\frac{1}{2}\) inch groove. Weight per 1000, 660 pounds. A barrel contains about 400.

Accessibility 25432 P104 Insulator.

1 γ²ε inch high; 2½ inch wide; γ²ε inch hole; ¾ inch groove. Weight per 1000, 380 pounds. A barrel contains about 700.

Accessional 25433 P1041 Insulator...

14 inches high; 2 inches wide; τ_{c} inch hole; § inch groove. Weight per 1000, 380 pounds. A barrel contains about 900.

Accessorial 25434 P105 Insulator

I§ inchs high; 24 inches wide; 14 inch hole; 1 inch groove. Weight per 1000, 350 pounds. A barrel contains about 700.

Accessorily 25435 P106 Insulator

1§ inch high; 1\(\frac{1}{2}\) inch wide; \(\frac{2}{3}\) inch hole; \(\frac{1}{4}\) inch
groove. Weight per 1000, 115 pounds. A barrel
contains about 2200.

Accessoriaess 25436 P107 Insulator

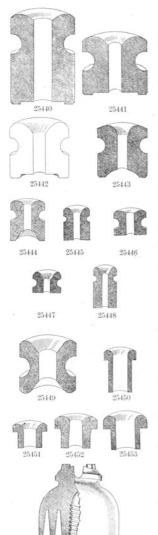
1 inch high; 1\frac{1}{2} inches wide; \(\frac{1}{4}\) inch hole; \(\frac{1}{2}\) inch groove. Weight per 1000, 160 pounds. A barrel contains about 2500.

Accidence 25437 P108 Insulator. ∦ inch high; 1½ inches wide; ∤ inch hole; ∤ inch groove. Weight per 1000, 75 pounds. A barrel contains about 3000.

Accidentalism25438 P109 Insulator...

\(\tilde{\gamma}_{e}^2 \) inch high; \(\frac{1}{2} \) inch wide; \(\frac{1}{2} \) inch hole; \(\frac{2}{3} \) inch groove. Weight per 1000, 30 pounds. A barrel contains about 8000.

Prices Quoted on Application.



25454

Special Porcelain Insulators,—Continued.

Code Word. Accidentally	List No. 25440 P1	Insulators			
23 incl	hes high; 2	inches wide; 500 pounds.	% inch	hole; § in	ch groove
Accidentalness	25441. P	Insulator			

13 inches high; 14 inches wide; \$ inch hole; 7g inch groove.

- Accipiter 25445 P6 Insulator $\frac{2}{3}$ inch high; $\frac{1}{18}$ inch wide; $\frac{7}{32}$ inch hole; $\frac{7}{32}$ inch groove. Weight per 1000, 30 pounds. A barrel contains about 9000,

- Acclimatement 25448 P9 Insulator

 1\frac{1}{6} inches high; \frac{2}{6} inch wide; \frac{7}{3}\frac{7}{6} inch hole; \frac{5}{3}\frac{7}{6} inch groove.

 Weight per 1000, 26 pounds. A barrel contains about 9000.
- Acclimature 25450 P151 Bushing length under head 1 inch; § inch wide; § inch hole
- Acclivous 25451 P152 Bushing length under head ½ inch; ¾ inch wide; § inch hole.
- Accley 25452 P153 Bushing length under head § inch; {{ inch; wide; § inch hole.
- Accoust 25453 P154 Bushing length under head § inch; 15 inches wide; § inch hole.
- Accoil 25454 High Potential Insulator, hard burned and thoroughly vitrified.

Prices Quoted on Application,



Insulators--Porcelain--(Continued).

Wiring Insulator.

Code Word.	List No.							Li	st Price.	
Enabling	1	Glazed, for	No. 6	and No	8	wire,	per 100	0	\$2.40	
Enact	11/2	Unglazed,	6	"	8	**	**		1.50	
Enacted	2	Glazed,	10	to No.	16	4.	4.4		1.80	
Enacting	21/2	Unglazed.	" 10	"	16	**	4.4		1.20	



No. 8907.

Wiring Insulator for Large Wires.

The Insulator will hold insulated wires or cables from ½ to 2 inch outside diameter.

Emulsive	8907	Glazed, per 100	7.50
Enable	8908	Unglazed, "	4.50



No. 8909.

"Economic" Insulators.

This is a modification of Nos. 1 and 2 Wiring Insulators. By an improved construction it is, without sacrificing strength, made much smaller, and is therefore sold at a much lower price.

Emulgent Emulsion

8909	For No.	1	wire and	smaller,	glazed,	per 100	1.80
8910	**	6		**	glazed.		1.20



Emulator

6580 Insulating Knob for wire, & in. diam., per 100.



P. & S. Circuit Breaker.

The construction of this Circuit Breaker is such as to insure high insulation and great strength. We furnish a large size for electric light wires, and smaller size for electric railway span wires, guard wires, curves, etc.

word.	LISUNO.						L	ist Price.
ied	8	Small	size,	each	per	100		\$3.00
iness	9	Large	**	**	64	"		5.00

9266 "Victor" Split Insulator, per 1000 35.00



-	
MM	

Empowering 2341 Rubber Hook Insulator, each.....

No. 2341.

No. 25000.

P. & S. Guard Wire Suspension Insulators.

			List Price. Per 100.
Solicitant	25000	P. & S. No. 60, Glazed	. \$2.20

The "Safety" Wire Holder.

Made in three sizes, Nos. 1, 2 and 3, to take wire as follows: No. 1 takes from No. 18 to No. 12 B. & S. gauge; No. 2 takes from No. 12 to No. 6 B. & S. gauge; No. 3 takes from No. 6 to No. 0 B. & S. gauge. They are furnished with different screws to suit the class of work required, viz., No. A, 1 inch wood screw for wood work; No. B, 11 inch wood screw for plastered ceiling; No. C, 1 inch machine screw for iron work.



200	Dia
100	Dia
Service of the last of the las	Dia
2566.	Dia

Dewy	2566	No	1	with	1	inch	wood screw,	ner	100	10.00
Dexter	2567		2.			**	.4			
Dexterity	2568	+ 6	1,	**	14	66	**			
Dexterous	2569	.64	2.	11	11	**	**	**		
Diadem	2570	**	1,	4.4	1	**	machine screv	v, "		10.00
Diagonal	2571	4.6	2,	**	1	4.6	**	"		10.00
Diagram	2572	**	3,		1	44	wood screw,	**		15.00
Dial	2573	* 4	3,	4.6	11	**	**	**		15.00
Dialect	2574	6.6	3.	**	1	11	machine screw	1, "		15.00



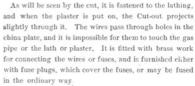
No. 8742.

No. 64.

The Security Insulator.

Code Word.	List No.		List Price.
Luminous	8742	Security Insulator, 1% x 11 inch. No. 2 to No.	12
		wire, per 1 006	\$30.00

Combination Fixture Cut-out and Outlet Insulator.



Electioneer Exacted.

64	Each	.15
26	Fuse Plugs, each	.05
We a	lso furnish the China Plate for No. 64 with three	
oles fo	wires, to be used without brass work	

641 Each.....









No. 50.

Corner Insulator.

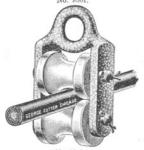
For the protection and insulation of heavy wires and cables when passing around corners or over cornices. It has a hole large enough for an insulated wire 2 inch outside diameter.

Empoisoning

Emptiness



Tree Insulators.



No. 25094.

The Cutter Swinging Tree Insulator.

It is readily hung from a hook or wire twisted through the loop at the top, and by lengthening this wire the device will adapt itself to a wide range of conditions. It can also be used for supporting are light wires under iron roofs.

Soniferous 25094 Per Dozen ..., 2.00

No. 9.

The cut shows our No. 9 Circuit Breaker used as a Tree Insulator.

9 P. & S. Tree Insulator, per 100, ... 5.00





No. 2853.

Gem Wire Holders, with Bolt and Nut.

Wood Insulation.

Effort	2853	16	inch	opening,	per 10	00	10.00
Effrontery	2854	1	**	**	**		12.00

Porcelain Insulation.

Effulgenf	2855	1,5	inch	opening,	per l	100,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12.00
Effusc	2856	$\frac{1}{4}$		**	**		12.00
Effusion.	2857		4.6				17.50

Gem Wire Holders, with Bolt and Nut-

(Continued).

Opalescent Glass Insulation.

Code Word.	List No.													Li	st Price.
Effusive	2858	1	inch	opening.	per 10)								. 5	\$22.50
Egbert	2859	5	4.4	44	**								,		22.50
Egg	2860	2			4.4							, .			27.50
Egotism	2861	7		**	4.1										27.50
Egotist	2862	1	**	14	11										27.50
Egress	2863	11	1.9	4.9	4.										60.00
Egyptian	2864	11	+ 4	4.6	4.1										70.00
Either	02865	15	6.6	**	4.4										80.00
Eject	02866	2	4.6	**	**										90.00

Gem Wire Holders, with Wood Screw.

Porcelain Insulation.

Ejected	481	inch inch	opening,	per 100.		10.00
Ejecting	482	1 "	**	"		10.00
Ejection	483	8 "	***			15.00
	These	Wire He	olders are	suitable	for indoor or outdoor	

These Wire Holders are suitable for indoor or outdoor use.

Opalescent Glass Insulation.

Ejectment .	487	1	inch	opening,	per 10	0 .					 				20.00
Elaborate	488	5	11	**											20.00
Elapse	489	2		**	6.4										25.00
Elastic	490	7	**	6.6	**										25.00
Elasticity	491	1	6.6	6.6	1.6										25.00
Elate,	493	11	- 44	. 6	4.4										50.00
Elated	494	1+	**	* *	4.6										60.00
Elation	484	15	41	4.4	+ 4										75.00
Elbow	485	2	**	**										.,	85.00

Wood Insulation.

The Fletcher Gem Wire Holders, with wood insulation, are suitable for every description of inside work, but are not recommended for outdoor use.

Elderly	478	16	inch opening,	per 100.	 8.33
Eldest	479	1	0		 10.00

"Tree" Wire Holder.

Opalescent Glass Insulation.

By passing a wire through the hole in boss of the "Tree" Wire Holder, it can be adjusted to any desired position.

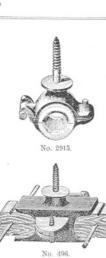








Elect



"Jumbo" Wire Holders.

Opalescent Glass Insulation.

The Fletcher "Jumbo" Wire Holder is sufficiently strong to support a heavy cable, and adds materially to the neat appearance of wiring work.

Code Word.	List No.		List Price.
Electing	2915	1 inch opening, per 100	\$25.00



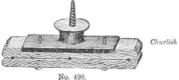
496 Gem Wire Holder, per 100 10.00



Churn

Cider

497 Gem Wire Holder, per 100...... 5.00



498 Gem Wire Holder, per 100 6.50

Insulated Wood Risers.

The Fletcher Insulated Wood Risers are used in fitting up electric light stations and power houses with wire or copper rods.



Chuffness	2396	1	inch,	Porcelain	Insulation,	each	 .25
Chuffy	2397	8		**	**	**	 .25
Chump	2398	+	**	Glass	44	**	 .30
Chunk	2399	5	* *	**	**	44	 .30
Church	2400	4	44	**	**	**	 .40
Churchdom	2401	7	4.4	+1	**	"	 .40
Churching	2402	1	**	14	**	**	 .50
Churchland	2403	11	**	44	**	"	 .50
Churchman	2404	11	**	**	**	**	 .50





The Fletcher Wiring Pendants.

A very neat and strong device for wiring are and incan-. descent lights, indoors or out. Length, 5 inches; diameter of base plate, 3 inches.

Code Word.	List No.					Lis	t Price.
Chud	6798	Fletcher's	Wiring	Pendant,	with screw,	each	\$0.15
Chuff	6799	44	44	66	screw holes,	"	.15

Fletcher's Insulating Iron Pin and Bracket.

These Iron Pins or Brackets are used on poles and crossarms for running electric light lines or electric street railway feed wires, and do not require tie wires, which might injure the insulation or the line or feeder wire.

Fletcher's Insulating Iron Pin.

Employable	2931	1	inch,	Glass Insulation,	each	 .25
Employer	2932	8	4.6	**	44	 .25
'Employing	2933	1	6.6	**	4.4	 .30
Empoison.	2934	5	4.6	44	61	 .30
Empoisoned	2935	å	44	4.6	1.7	 .30

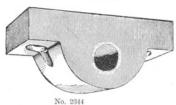


No. 2931.



Fletcher's Insulating Iron Bracket.

imphasize	1857	4	inch,	Glass Insulat	ion, each	30	
Emphasizing	1858	8	4.4	**	"	30	
Empire	2923	$\frac{1}{2}$	+4	47	**	40	
Smpiric .	2924	5	44	**	"	40	
Smpirical	2925	2	**	**	" ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	40	



Electrify

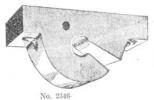
Porcelain Wire Holders.

2344 Per 1,000...... 27.75



Elias

2345 Per 1,000...... 90.00



Porcelain Wire Holders-(Continued).

List No. List Price. 2346 Per 1,000..... ..\$150.00



Eliminate

2347 Per 1,000 90.00

No. 2347-

Cleats, Porcelain.



No. 1157.

The Duggan Cleat.

Bequeathing 1157 Glazed, will take wire No. 8 to No. 16, per 1,000, 45.00 1159 Glazed. " 00. 47.50 Bilbo 1161 Glazed. " " 16 and " 18. 45.00



Elixir Elk

Ellen

Elliptic

"P. & S." Single Cleat.

This Cleat is designed for use where wires are required to be separated more than 2½ inches.

3415 Glazed, for wires with insulation & to & inch diameter, per 100..... 5.00 3416 Unglazed, for wires with insulation & to & inch diameter, per 100...... 3.50 3417 Glazed, for wires with insulation 1 to 2 inch diameter, per 100..... 2.50 6800 Unglazed, for wires with insulation 1 to 1 inch diameter, per 100..... 1.60



Bereave Bereaving Novel Novelist Novelty

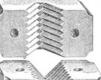
"P. & S." China Cleats.

3814	Glazed,	2 wi	re, f	or No.	8 w	ire or small	r, per 100	3.80
	Unglazed.			**		**	**	2.50
3418	Glazed,	3 .		**	8	**		3.80
	Unglazed,	3	4.6	**		**	**	2.50
3420	Glazed, fo	r No	6.6	wire,	per	100		4.50
3421	Unglazed,	**	6	4.0-	**			3.00

Slightly







DUGGAN No. 24101.

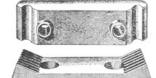
IX L Cleat.

Code Word.	List No.		List Price.
Sliftered	24100	Per 1,000	\$20.00

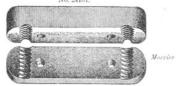
Duggan One Wire Cleat.

Glazed.

Slight	24101	Holds	Wires	No. 16 to No. 8,	per 1,000)	20.00
Slighten	24102	66	66	No. 6 to No. 0	0, "		36.00
Slighter	24103	66	66	No. 000 and lar	rger, "		60.00



No. 24107.



No. 15325.

The Diamond Porcelain Cleat.

24107	Per 1,000	23.00
Tal	kes all Wires from No. 8 to No. 16	

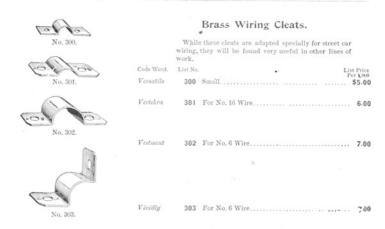
"W" Cleat.

15525 Fer 1,000	15325	2	0.0
-----------------	-------	---	-----

"P & S" China Cleat, Two and Three Wire.

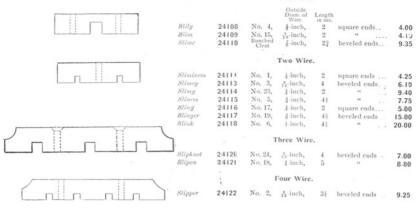


Sludge	24146	Two	Wire,	glazed,	per 100	 3.5
Sludger	24147	66	44	unglazed,	66	 2.2
Sludgy	24148	Thre	е "	glazed,	44	 3.5
Slue	24149	66	66	unglazed,	- 44	 2.2



Wood Cleats.

One Wire.





China Wiring Tubes. List No Code Word Acquest 012 Hole for wire 5-16 inch (use 5-8 inch bit to bore. 013 Hole for wire 16 inch (use & inch bit to bore Empassion joists), per 100......\$2.00 13 Hole for wire & inch (use 4 inch bit to bore Emperor joists), per 100 14 Hole for wire & inch (use 1 inch bit to bore Emphasis joists), per 100.....

China Cross=over Tube.

This tube has a head on each end and is designed to be used when wires cross over other wires. The heads tend to hold tube in position.



Empaling Empanel

Argund

Edwin

130	a inch hole, 3 inches between heads, glazed,	
	per 100 4.5	50
1301/2	å inch hole, 3 inches between heads, unglazed,	

per 100.....



No. 8801.

44 PT: dough 11	XX/:	T. L.
" Midget"	WILLIUS	i ube.

013 1/2 15-8 inches long, 5-16 inch hole, 5-8 inch out-8801 15 inches long, 8 inch hole, 4 inch outside diameter. per 103.....



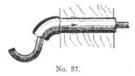
No. 20

Porcelain Window, Tube.

Empaled 6 inches long, & inch hole, unglazed, each..... .06 \$ " Empalement 201/6 6 glazed, Use 7 inch bit to bore holes for them.

Porcelain Window Tube, with Curved End.

This form of Window Tube has a curved end which effectually prevents any water entering through tube, and insures a compliance with the insurance rule requir-



Emotive Empale

ing a "water loop" in wire. Use ? iuch bit. Glazed Window Tubes, curved ends, each07 3716 Unglazed " " .05

Long Curved End Tubes.

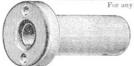


This Tube has a hole § inch in diameter, and is 11 inch outside diameter.

Price List of Each Size, in Cents.

LENGTH UNDER HEAD IN INCHES.	6	8	10	12	14	16	18
Unglazed	11	17	23	33	38	46	54

For any of the above furnished Glazed, add 25 per cent.



Code Word. List No. Enactive 9327 Floor Insulator, § in. hole, 3₹ inch tube

No. 9327.

Awning Insulator.

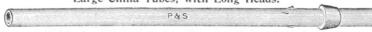


8989 Awning Insulator, glazed, each..... .07 unglazed, each

Long Curved Tubes, for Awnings, Cornices, Etc.



Large China Tubes, with Long Heads.



We carry the following sizes with heads 3 inches long, which can be used advantageously where water or sweepings are liable to come in contact with wires. In ordering always give both outside and inside diameter.

Price List of Each Size, in Cents.

LENGTH UNDER HEAD IN INCHES.							6	8	10	12	14	17
à	in.	hole,	20	in, ou	tside diame	ter	7	121	151	181	211	
. 3	66	66	. 3	64	44		- 8	131	16±	191	221	
î,	4.0	6+	13	4.0	64		18	271	32±	371	421	50
ŝ	66	66	11	64	44		18	271	321	371	421	50
å	66	66	19	44	66		221	33	39	45	51	60
^	66	66	19	64	44		224	33	39	45	51	60

For any of the above Glazed, add 25 per cent.

Large China Tubes.



In ordering always give outside and inside diameter.

Price List of Each Size, in Cents.

		LENG	тн	IN	INCHES.		4	5	6	7	8	9	10	12	14	15	16	18	20	22	24
, to	in.	hole,	36	in.	outside	diam	24	3	4	5	6	7	8	14	17		20	23			
ė,	40	64	1	.,	44	64	8		12	6-	16	8	20	15 30	18	191	21	24			
9	6	66	11	16	41	44			12		16		20	30	35 35		40	45	50 50	55 55	1
	6-	44	11	11			9		15		20		95	36							
	40		14	44	6+		9		15		20		25	36	42 42	45	48 48	54	60 60	66	
	6.		21 21	4-	.61	11	12		18		24 24	~	30	42	49		56 56	63	70 70	77	3
Ė	64	14	31	44		61	20		30		40	.,	50 50	66	77		00	99	1 10 1 10	1 21	13

For any of the above Grazed, and zo per cent.

Hard Rubber Tubing, with Heads.







gth.								Rough	Polished
inch.		y7c	inch.	1	inch.	13	lbs.		29.80
44		70	**	150		110	44		28.40
4.6			44	1	1.6		16		35.20
**		+	**	150	64	2	4.6		38.00
"			61		31	110	66		36.80
66			***	1	11		4.		46.00
14			16	1	11		41		60.00
11			44	-	**		11		
44			**				**		60:00
44							66		60.00
**			. 44				**		68.60
44			66		11		**		77.00
**		8							65.60
		8		*					93.80
		8		8					121.80
		2		1					110.40
		2		1					138.60
				8				2.25	38.00
				9			**	2.25	46.40
**		£	**	+	**	578	**	2.25	65.80
	"	neh	gth. D inch. \$\frac{1}{2}c\$ " \$\frac{1}c\$ " \$\frac{1}{2}c\$ " \$\frac{1}c\$ " \$\frac{1}{2}c\$ " \$\fra	nch.	gth. Diam. 1 inch. \$\text{v}_{\text{c}}\$ inch. \$\frac{1}{2}\$ inch. '' \$\text{v}_{\text{c}}\$ '' \$\text{fs} '' \$\t	gth. Diam. Diam. inch. \$\frac{1}{2}\times \text{inch}. \$\frac{1}{2}\times \text{inch}. \tau \frac{1}{1}\times \text{inch}. \$\frac{1}{2}\times \text{inch}. \tau \frac{1}{1}\times \text{inch}. \$\frac{1}{2}\times \text{inch}. \tau \frac{1}{1}\times \text{inch}.	ogth. Outside Diam. Inside Diam. Wet per	ogth. Dusside Diam. Inside Diam. Weight per C. inch. 3° inch. 1 inch. 1 fr lb. """"""""""""""""""""""""""""""""""""	ligth. Dum. Diam. Price per lh Diam. Price per lh Diam. Price per lh Price la like Price per lh Price la like Price la lik



Nos. 3816 to 3825.

Floor Insulators.

Glass Floor Insulators.

Code Word.	List No.						ist Price. Per 1,000.
Bernard	3816	3 in.	filoor	ins., 1/2	in. bore,	with thread	\$70.00
Bertha	3817	3	**	1	1.0		70.00
$Bertra\hat{m}$	3818	8	6.0	144	**	4.6	80.00
$B\dot{e}seech$	3819	31/2	11	1	6.6	* 6	75.00
Beseem	3820	4	**	34	4.6	4.6	80.00
Besct	3821	.4	**	1	**		80.00



No. 3836

Besie	ege	3822	4½ in.	floor	ins.,	i	in.	bore,	with	thread	90.00
Besie	egement	3823	5			1		44		* 6	100.00
Besie	ging	3824	6	+4		1		* 4		4.4	120.00
Besn	roke	3825	6	4.6		114		**		4.6	140.00
Beson	t	3836	31/2	4.6		34	1	44	no th	read	75.00
Besp	eak	3837	6	4.6		1			splif	thread	200.00

Floor Insulators, F. O. B., N. Y.

								Per	Gross.	
Acquiry	25599	3	inch	over	all,	ĝ	inch	bore\$3	3.00	60.00
Acquisitor	25600	3		6.4	44	ĝ	**	" 3	3.50	60.00
Acquist	25601	4	**	**	**	â	14	5	.00	75.00
Acquitment	25602	6	44	60	**	â	**	" 5	5.50	90.00

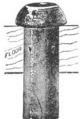


THREE INCHES UNDER THE HEAD.

Blinkard	3472	For	58	inch	wire.	 . 75.00
Blinkers	3473	44	X	**	**	 90.00
Bliss	3474	+1	1		**	 . 100.00



No. 3472.



No. 8899.

China Floor Tubes.

														- 1	ach.	
Enactment	8899	4	inches long,	34	inch	hole						 . ,	,	\$.0	9
Enactor	8900	4	**	1	41		 								.0	9
Enamel	8901	6	**	34	4						,				-13	5
Enameled	8902	6	**	1	**						 				-13	5
Enameling	8903	4	**	11/	**			 			 				.14	1
Enamor	8904	4	**	11/2	41										.14	1
Enamored	8905	6	**	114	4.6										.11	3
Enamoring.	8906	0	4.	11/6	**										.11	3

Price List of Vitrified Clay Wiring Tubes.

Inches,	Diam.	Diam.	Diam.	Diam.	Diam.	Diam	Diam	Diam.	Diam.
	5-16 In.	3-× In	1/2 In.	5-8 In.	¾ În.	1 In	1¼ In	1½ In.	1½ In.
	Per 1000.	Per 1000.	Per 1000.	Per 1000.	Per 1000.	Per 1000	Each	Fach.	Each.
1 1 2	7,50 7,00 8,00	7,00 9.00 10.00	12,00	15.00	20.00				
2½ 3 4	9.50 10.00 12.00	12.00 12.00 14.00	15.00 15.00	18.00 22.00	23.00 25.00	28,00 35,00	.08	io	12
6	25.00	28,00	35.00	40.00	45.00	50.00	.10	.16	.20
8	32.00	40.00	50.00	54.00	60.00	70.00	.12	.20	.24
10	40.00	52.00	65.00	70.00	80.00	90.00	.16	.24	.28
12 14 16 18	70,00 90,00 105,00 120,00	80.00 100.00 120.00 132.00	90.00 105.00 120.00 135.00	100.00 120.00 135.00 155.00	105.00 130.00 155:00 170.00	130.00 155.00 180.00 200.00	.24 .28 .32 .36	.36 .42 .48 .54	,40 ,50 ,60
20	135,00	145.00	150.00	175.00	185.00	225.00	.40	.60	.70
22	150,00	160.00	165.00	190.00	205.00	250.00	.44	.65	.80
24	165,00	175.00	180.00	205.00	215.00	275.00	.48	.70	.90

B. & T. White Porcelain Tubes.

Thin Walls. Straight. Absolutely Non-Absorbent.
List Price per 100

Leng	th in i	nches	3	4	5	6	8	10	12	14	16	18	20	24
in in	inside	diam .	7.78	.94	1.53	1.95	3.00	4.00	6.00	7.00	8.00	9.00	10.00	
13 "	.4	44	.94										11.00	
7 "	u.	66	1.28	1,40	2.11	2.72	4.00	5.00	7.00	9.00	10.00	12.00	13.00	15.00
٠. ۾ ٠.	"	"	1.40	1.72	2.55	3.11	4.50	6.00	8.00	10.00	12.00	14.00	15.00	17.00
₹"	"	ш	1.81										16.00	
1 "	**	66	2.18	2,72	3.45	3.90	7.00	8.00	11.00	12.00	15.00	17.00	19.00	22.00
11 "	46	"		6.50		8.00	10.00	13.00	19 00	22 00	26 00		33 00	39.00
11 "	"	ţı.		8,00		13.00	16,00	19.00	28.00	34.00	38.00	[47.00	56.00

Mouldings.

F. O. B. Chicago.

Price per 1,000 Feet, Moulding Only.

Capping one-half price of Moulding.



Price per 1,000 Feet. Moulding Only.

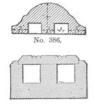
Capping one-half price of Moulding.

No. Wires.	Size of Grooves.	Unfinished Soft Wood.	Painted Soft Wood.	Unfinished Oak.	Finished Oak.	Finished Georgia Pine
1	in.	\$6.00	\$8.00	\$12.00	\$17.00	\$12.00
2	‡ in.	7.50	11.00	18.00	24.00	20.00
3	in.	12.00	16.00	28.00	36.00	28.00
2	,5 in.	9.00	13.00	20.00	28.00	22.00
3	η ⁵ ε in.	14.00	19.00	30.00	40,00	32.00
1	g in.	7.00	10.00	14.00	22.00	18.00
2	g in.	13.00	18.00	26,00	36,00	28.00
3	g in.	20.00	26.00	38.00	50.00	40.00
2	in.	14.00	20.00	28.00	40.00	30.00
3	in.	22.00	30.00	40.00	55.00	45.00
2	g in.	18.00	24.00	35.00	47.00	37.00
3	. ĝ in.	26.00	35.00	47.00	65.00	55.00
1	2 in.	10.00	14.00	20,00	30.00	22.00
2	3 in.	22.00	28.00	40.00	55.00	45.00
3	3 in.	30.00	40.00	.55.00	75.00	65.00
2	1 in.	30.00	40.00	55.00	75.00	60.00
3	1 in.	45.00	60.00	82.00	110.00	90.00

Special Mouldings made to order on short notice.

Mouldings.

F. O. B. New York



No. 387.

		F. O. D.	New I	A K.		
		Description.		Outside Diam. of Wire, Inches.	Width of Bottom, Inches.	List Price per 1,000 FL
Contemplator	386	A-1, complete,	2 wire	372	$1_{\tau_{\mathcal{E}}^{n}}$	11.00
Contempt	387	A-2, complete,	3 "	y ⁷ 8	1_{16}^{9}	21.00
Contemptible	388	A-2, bottom,	9 "	8 ⁷ E	1,9	13.50
Contemptibly	389	A-2, capping, 2	3 "	72	1,9	7.50
Contend .	401	B-1, complete, 2	3 "	75	14	25.00
Content	402	B-1, bottom, 2	3 "	76	15	16.00
Contention	403	B-1, capping, S	3 "	15	14	9.00
Contentious	415	C-1, complete, 2	3 "	18	214	28.00
Contentless	416	C-1, bottom, S	3 "	12	2,1	19.00
Contentment	417	C-1, capping, 2	3 "	1 2	$2_{1}^{1}e$	9.00
Contents	429	D-1, complete, 2	3 "	16	28	40.00
Conterminable	430	D-1, bottom, S	3 "	18	28	29.00
Conterminous	431	D-1, capping,	3	16	28	11.00
Contest	441	E 1, complete,	3 "	28	3,10	60.00
Contestable	442	E-1, bottom,	3 "	2.5	$3^{1_{\mathbf{i}^{\ell}}}$	48.00

Mouldings-(Continued).

F. O. B. New York.

						TOIK.		
	Code Word.	List No	o. De	escription.		Outside Diam of Wire, Inches.	Width of Bottom, Inches.	List Price, per 1,000 Ft
	Contestant	443	E-1, cap	pping, 2	wire,	37	370	12.00
China service of	Continent	390	A-3, cor	mplete, 2		3 ^T 2	1,2	18.00
	Continental	391	A-3, bot	tom, 2	**	372	1,9	10.50
	Contingency	392	A-3, cap	pping, 2		38	176	7.50
1	Contingent	404	B-2, cor	nplete, 2	***	15c	12	21.00
	Continuable	405	B-2, bot	tom, 2	. "	256	14	12.00
	Continual	406	B-2, cap	pping, 2	**	75	15	9.00
No. 390.	Contested	418	C-2, cor	nplete, 2	. 11	13	216	25.00
	Contesting	419	C-2, bot	tom, 2	3 "	13	216	16.00
	Context	420	C-2, cap	pping, 2	14	13	216	9.00
	Contiguity	432	D-2, cor	nplete, 2	***	38	28	38.00
	Contiguous	433	D-2, bot	tom, 2	**	786	28	27.00
OTTO SALITATION DE LA SALITA	Continually	434	D-2, cap	pping, 2		y ⁹ 6	28	11.00
	Continuance	399	A-6, cor	mplete, 2	. "	372	1,9	\$15.00
	Continue	413	B-5,	** 2	3 "	18	1 4	17.50
No. 399.	Continued	427	C-5,	" 5	9 "	$\tfrac{1}{3}\tfrac{3}{3}$	2^{1}_{16}	22.50
	Continuedly	400	A-7, cor	nplete, 3	. "	375	2,3	22.00
	Continuing	414	B-6,	** 8	**	15	2,0	25,00
	Continuity	428	C-6,	" 8	3 "	1.8	281	30.00
*	Continuous	393	A-4, cor	mplete, S	3 "	378	238	30.00
	Contort	394	A-4, bot	ttom, 8	3 "	N ⁷ E	234	19.00
	Contorted	395	A-4, car	oping, a	3	378	2,2	11.00
iin illiillin illiilin iii	Contortion	407		nplete, 8	3 11	75	2,9	35.00
No. 400.	Contour	408	B-3, bot	tom, S	3 **	15	2,9	21.50
	Contra	409	B-3, cap	oping,	3 11	75	2,2	13,50
	Contraband	421	C-3, con		3 11	18	281	42.00
	Contract	422	C-3, bot	tom, S	3 "	18	231	27.00
And School of the Control of the Con	Contracted	423	C-3, car	pping. 8	3 "	13	231	15.00
	Contractile	435		mplete, 8	3 "	28	311	60.00
	Contracting	436	D-3, bo			78	311	38.00
	Contraction	437	D-3, car			1,6	311	22.00
	Contractor	444		mplete, S	3 "	23	413	80.00
No. 393.	Contradict	445	E-2, bot		3 "	22	418	59.00
	Contradicted	446	E-2, cap			28	414	21.00
	Contralto	396		nplete, 8		375	2,9	27.00
	Contraries	397	A-5, bot			3 ⁷ s	232	16.00
The state of the s	Contrariety.	398		pping, 8		375	2,2	11.00
	Contrarily	410		nplete, 3		25 26	200	30.00
	Contrary	411	B-4, bot			75	2,%	16.50
	Contrast	412	B-4, car			16 16	275	13.50
No. 396.	Contrasted	424		nplete, a		16 18 82	281	38.00
	Contrastea	425	C-4, con		,	18 18		23.00
	Contravening	425	C-4, bot				281	15.00
	Contracenting Contravention	438		mplete, a	,	18	211	
	Contretemps	439	D-4, cor		,	J.g.	311	58.00
	Contretemps Contributable					Ye.	314	36.00
	Contributable	440	D-4, cap	obmg, s		1°c	311	22.00

Mouldings-(Continued). F. O. B. New York.



No. 447.

Code Word.	List No.	Description.			of Wire, Inches,	Encl
Contribute	447	F-1, complete,	2	11	7	4
Contributed	448	F-1, bottom,	2	14	7	4.
Contributing	449	F-1, capping,	2	16	7 8	4
Contribution	453	G-1, complete,	2	4.4	1	5
Contributive	454	G-1, bottom,	2	44	1	5
Contributor	455	G-1, capping,	2	++	1	5
Contrite	459	H-1, complete,	2	44	1/6	5
Contritely	460	H-1, bottom,	2	**	1/6	5



No. 450.

Contribute	447	F-1, complete,	2	* 4	7	4	80.00
Contributed	448	F-1, bottom,	2	1.6	- 7	4	56.00
Contributing	449	F-1, capping,	2	11	- 7	4	24.00
Contribution	453	G-1, complete,	2	4.4	1	5	110.00
Contributive	454	G-1, bottom,	2	++	1	5	80.00
Contributor	455	G-1, capping,	2	+6	1	5	30.00
Contrite	459	H-1, complete,	2	**	11%	58	121.00
Contritely	460	H-1, bottom,	2	**	1,0c	58	90.00
Contrition	461	H-1, capping,	2	**	1,0c	58	31.00
Contrivance	450	F-2, complete,	3	11,	- 1	5 %	100.00
Contrivé	451	F-2, bottom,	3	4.6	7,	55	68.00
Contrived	452	F-2, capping,	3	**	- 7	55	32.00
Contriver	456	G-2, complete,	3	44	1	7	140.00
Contriving	457	G-2, bottom,	3	**	1	7	100.00
Controllable	458	G-2, capping,	3	44	1	7	40.00

Ornamental Moulding.

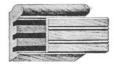


Hardly

No. 591

.51A	DE IN T	WO AND THREE WIRE, WITH & INCH GROOVE.
Code Word.	List No.	List Price.
Hardihood	590	Polished Oak, 2 wire, per foot \$0.25

.30



No. 593.

Hardening	592	Polished	Oak,	2 1	wire,	per fo	oot	.25
Hardiest	593		4	3	**	**		.30



No. 595.

of the	SECTION.	8 1 1880 KM 1889 18
0 100		William Committee
. E	MODE.	750200000000000000000000000000000000000

No. 598.

Harborless	594	White and	Gold,	2	wire,	per foot	.30
Hardened	595	**	**	3	**	"	.40

596 White and Gold, 2 wire, per foot..... Harborer .30 " " 3 " " Harboring .40



McIntire Patent Wire Connectors.



Code Word.	List N	io.	st Price.
		Twist connectors for No. 4 wire, B. & S. gauge,	
		per 100	\$9.00
Cheesey	18758	Twist connector, for No. 6 wire, B. & S. gauge,	
		per 100	8.00
Chemically	18759	Twist connector for No. 8 wire, B. & S. gauge,	
		per 100	9.50
Chemist	18760	Twist connector for No. 10 wire, B. & S. gauge,	
		per 100	7.00
Chemritz	15416	Twist connector for No. 12 wire, B. & S. gauge,	
		per 100	7.00
Chemnitzer	15417	Twist connector for No. 14 wire, B. & S. gauge,	
		per 100	7.00
Chamnitzy	15418	Twist connector, for No. 16 wire, B. & S. gauge,	
2001 10		per 100	7.00
Cheris	18761	Solder connector for No. 0000 wire, B. & S. gauge, per 100	25.00
Cherishing	19762	Solder connector for No. 000 wire, B. & S. gauge,	20.00
Cherishing	10/02	per 100	25.00
Cheroot	18763	Solder connector for No. 00 wire, B. & S. gauge,	
		per 100	25.00
Cherryly	18764	Solder connector for No. 0 wire, B. & S. gauge,	
		per 100	20.00



Turn Buckles.

Code Word.	List No,	Diameter of Thread, inches.	Length of Screw, inches.	Galvanized. List Price Each.	Plain. List Price. Each.
Slipshod	24129	36		.95	-80
Slipshoe	24130	1	34	1.00	.85
Slipslop	24131	16	4	1.10	.90
Slipstring	24132	3	5	1.30	1.10
Slipthrift	24133	7°E	6	1.50	1.25
Slit	24134	1	7	1.80	1.55
Slither	24135	1	12	2.75	2.40
Slovenliness	24137	â	8	2.40	2.00
Sloventy	24138	à	12	3.75	3.10
Slow	24139	2	9	3.50	2.75
Slowback	24140	4	12	5.40	4.25
Slowly	24141	Ä	10	4.25	3.50
Storeness	24142	1	11	5.50	4.25
Stub	24143	11	14	7.00	5.25
Stubber	24144	11	15	8.25	6.25

Cutter Insulated Turnbuckle.

Is made with heavy porcelain insulators secured to



malleable iron forks. These give a double insulation, making the device very effective. The turnbuckle gives nine inches adjustment.

Code Word.			List Price.
Slipperiness	24136	Complete	

Cutter Insulated Suspension Bolt.



Reduces the risk of grounds on suspension lamps by insulating the suspension wire or cable from the pole. Can also be used with guard wires or for railway suspensions. The fork is of malleable iron and well braced,

24124 With 12-inch bolt.....

Cutter "Banner Core" Hoisting Rope.



A new brand of hoisting rope specially made for use with arc lamps or suspension street hoods. It is made of selected cotton stock, closely braided over a red, white and blue core; the cord is then treated so as to withstand the weather, making the strongest and most durable cord for outdoor use. The genuine has the distinctive "banner core."

1	
13	
	1777
	[Daniel Street
	PURE MANILLA ROPE. WESTERN ELECTRIC CO CHICAGO
1	

Slippery	24126	1-inch, pe	er 100 fe	et	.90
Slippiness	24127	5-inch,	44		1.44
Slippy	24128	g-inch,	66		1.80

Pure Manilla Rope.

		Diam.	Weight of 1,000 Feet.	Feet in One Pound.	New Manilla Rope.	Per Pound.
Murdock	15420	4	23	43	450	.30
Murrows	15421	H	42	24	950	.30
Muscatine	15422	1	74	133	1700	.28
Muscoda	15423	15	101	10	2300	.28
Muskegan	15425	8	132	74	3000	.25
Mystic	15426	ž.	167	6	3900	.24



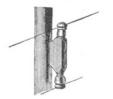
Incandescent Street Brackets.

2795 30-inch Straight Pipe Bracket, each Cherub

The above furnished in ginch and ginch pipe as desired.

Oak Pins.

			oak Pins.	
			In Crates of 500.	
	Code Word.	List No.	List	Price.
	Nampa	15430	Western Union Standard, 1½ inch, second growth, split timber, hand painted, two coats, with first-class mineral paint, per	
No. 15430	Nantucket	15431	Western Union Standard, 1½ inch split timber, hand painted, two coats, with	25.00
	Napa	15432	first-class mineral paint, per 1000 2 Western Union Standard, size 1½ inch, sawed and split timber, dipped, painted	20.00
	Naples	15433	11/4 inch, second growth split timber, hand painted, two coats, first class mineral	15.00
	Napolian	15434	paint, per 1000	20.00
	Nashna	15435	c ass mineral paint, per 1000	15.00
	14/18/1/4/1	13433	114 inch, sawed and split timber, dipped, painted one coat, per 1000	12.00
			Locust Pins.	
			Not Painted.	
STREET, STREET			In Crates of 500.	
(within)	Nashrille	15440	1¼ inch, 7¾ inch long, per 1000	25.00
	Natchez Natcik	15441	11/4 " 8 " " " "	25.00 27.00
No. I5440.	Navajo	15443	114 " 8 " transposition, per	30.00
	Naylor	15444		30.00
			Corner Pins.	
Commen	Neenah Negona	15446 15447	Oak, 1½ " " " " " "	60.00 65.00
No. 15445.			Oak, 1½ " " " " " "	
and the same of th		2671	Oak, 1)/2	
and the same of th	Negona Circumvent	2671	Oak, 1)/2	30.00
No. 15445.	Negona Circumvent	2671 2672	Oak, 1½	30.00
No. 15445.	Negona Circumvent Citable	2671 2672	Oak, 1½ " "	30.00 40.00
No. 15445. No. 2671.	Negona Circumvent Citable	2671 2672	Oak, 1½ " " "	30.00 40.00
No. 15445.	Negona Circumvent Citable	2671 2672 3394	Oak, 1½ Locust Brown Duplex Pins. Oak, 1½ inch, per 1000	30.00 40.00
No. 15445. No. 2671.	Negona Circumvent Citable Buld	2671 2672 3394	Oak, 1½ Locust Brown Duplex Pins. Oak, 1½ inch, per 1000	30.00 40.00
No. 15445. No. 2671.	Negona Circumvent Citable Buld Nelson	2671 2672 3394 15455	Oak, 1½ Locust Brown Duplex Pins. Oak, 1½ inch, per 1000 Locust 1½ Solid Iron Pin. 1½ inch, each Brackets. In Grates of 500. Oak, Western Union Standard, No. 1 timber, hand painted, two coats first-class mineral paint, per 1000 Oak, Western Union Standard, No. 2 timber, hand painted; tyo coats first-class mineral paint, per 1000 Oak, Western Union Standard, No. 2 timber, hand painted; tyo coats first-class first-cla	30.00 40.00
No. 15445. No. 2671.	Negona Circumvent Citable Buld Nelson Neola Neosho	2671 2672 3394 15455 15456	Oak, 1½ Locust Brown Duplex Pins. Oak, 1½ inch, per 1000 Locust 1½ Solid Iron Pin. 1½ inch, each Brackets. In Crates of 500. Oak, Western Union Standard, No. 1 timber, hand painted, two coats first-class mineral paint, per 1000. Oak, Western Union Standard, No. 2 timber, hand painted; two coats first-class mineral paint, per 1000. Oak, Pony telephone, hand painted, two coats first-class mineral paint, per 1000. Oak, Pony telephone, hand painted, two coats first-class mineral paint, per 1000.	30.00 40.00 .10 25.00 21.00
No. 15445. No. 2671.	Negona Circumvent Citable Buld Nelson Neola	2671 2672 3394 15455 15456	Oak, 1½ Locust Brown Duplex Pins. Oak, 1½ inch, per 1000	30.00 40.00 10 25.00 21.00



No. 3000.



Code Word.	List No.		List Price.
Citrate	3000	Per 1,000	\$35.00



No. 3610.

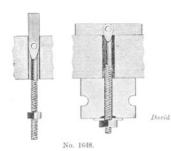
Locke Indestructible Insulator Pin.



No. 1742.

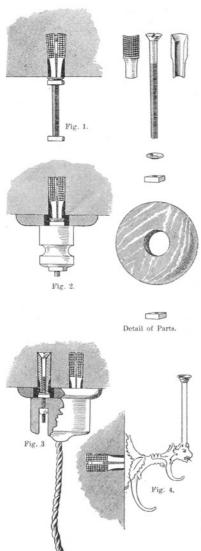
The "Insulating Saddle Staple."

Centralize	1742	For wir	e 755	inch i	n diameter,	per 1,0	00	.60
Centrifugal	1743	44	100	**	44	66		.70
Centripetal	1744	44	100	44	66	44		.80
Centriple	1745	66	25	44	44	44		1.70
Centurion	1746	44	100	46	64	44		5.40
Century	1747	66	4.0	44	44	44		5.00



Toggles.

For suspending fixtures, brackets, wood blocks, etc., to side walls or ceiling.



Tile Bolt and Lock.

This tile bolt and lock is devised for use in fire-proof buildings where the columns and girders are covered with tiling. It is a safe and simple method for fastening insulators, rosettes, or other electrical appliances to cellings, columns, or walls. It cannot be pulled out when properly set and yet can be easily removed when desired.

This device consists of two pieces of metal with partially corrugated outside surfaces which when placed together form a shape similar to a cone. The opening in the upper end when the pieces of metal are put together is countersunk, allowing the bolthead to which the insulators or other devices are to be fastened to fit snugly between the two pieces of metal. These two pieces of metal together with the bolt are inserted in a hole in the tiling. A small concave washer slips over the bolt and a nut is then screwed up close to the ends of the small pieces of metal, as it is gradually tightened it draws the bolt head down into the space between the two pieces of metal until it makes them bind tightly to the sides of the hole, the end deepest in the hole binding tightest; this leaves the shank of the bolt free for attaching any device that may be desired.

The top illustration, Figure 1, shows the screw or bolt attached to a ceiling while the illustrations under ii. Figure 2 and Figure 3, show respectively an insulator and a ceiling button or rosette attached to the bolt. Illustration Figure 4 shows how the tile bolt and lock may be used for attaching ornamental brackets to the side of a wall.

These tile bolts and locks are made in two sizes: No. 25073 which has a bolt 3 + y + 1 inches, includes the two conical pieces of metal which are called the lock, one small iron washer, two small iron outs, and the bolt; No. 25074, which has a bolt $2 \times \frac{1}{2}$ inches, includes the lock, the bolt, one small iron washer, one small iron nut; and one brass nut which is slotted so that a screw driver as well as a wrench may be used on it. No. 25074 is used principally for fastening rosettes to the ceiling where two bolts are to be used on one device.

It will be particularly noted that partitions in the tiling or tile or marble slabs resting against flat surfaces do not interfere with the use of the tile bolt and lock as in the case of toggle bolts; with the tile bolt and lock there is no need of an open space as is required in the use of toggle bolts.

Code Word.								ist Price.
Somnative	25073	$3 - \frac{1}{7}$	Х	ł	inches,	per	1000,	\$40.00
Somniculous	25074	2	X	ł	**	44	1000	45.00



Standard Cross Arms.

Shipped direct from Bay City, Mich. Painted two coats red. Finished size 31/x41/4 inches. Bored for 11/2 inch pins and two 1/2 inch bolts unless otherwise specified.

Code Word.	List No.	Len		Tumbe Pins			ings. iter.	Side		Price. ach.
Otley Otsego Ottawa Otto Ottumwa Overton Ovid Ovego Oxford	23563 23564 23565 23566 23567 23568 23569 23572 23573	3 4 5 6 6 8 8 10 10	feet,	2, 4 4 6 6 8 8	4 in	28 16 18 22 16 18 16 17½	in.,	12 17 21 12 17½ 12 15¼	in	\$.12 .15 .21 .24 .24 .33 .53

Telephone Cross Arms.

Shipped direct from Bay City, Mich. Painted two coats. Finished size 24x34 in. Bored for !14 in. pins and two 1/2 in. bolts.

			Number		Spacings.		
		Length.	of Pins.	End.	Center.	Sides.	
Newburn	15460	24 in.	2	3 in.	18 in.		.08
Newburg	15461	30 "	2	**	24 "		.10
Newton	15462	36 "	2	+ 4	30 **		.12
Niagara	15463	42 "	4	4.4	16 "	10 in	.14
Niantic	15464	62 "	G	4.6	16 "	10 "	.21
Nichols	15465	83 "	8	* *	16 "	10 "	.27
Nicolleti	15466	102 "	10	1.6	16 "	10 "	.35
Niles	15467	120 **	12	4.6	16 "	10."	.45

Odd lengths same price as next longer arm having same number of pins. Odd spacing extra prices.

Above arms of best Michigan white pine. Special prices quoted on yellow pine arms and extra heavy arms.

Stiff Steel Cross Arm Braces.



 $1_{3/2}$ inches wide by $\frac{7}{3/2}$ inches thick, punched for % inch lag screw in one end and 3% inch carriage bolt in the other.

		P	lain.			
15470 15471 15472 15473	20-inch, 24 " 26 " 28 "	per l	000 pair.		air	90.00 108.00 125.00 140.00
		Galv	anized.			
15475 15476 15477 15478	24 " 26 " 28 "	$\frac{3200}{3500}$::			135.00 169.00 180.00 200.00
	15471 15472 15473 15475 15476 15477	15471 24 " 15472 26 " 15473 28 " 15475 20-inch, 15476 24 " 15477 26 " 15478 28 "	Appendent	15470 20-inch, 2700 pounds, 15471 24	Approx. weight per 1000 pair.* 15470 20-inch, 2700 pounds, per 1000 p 15471 24 " 3200 " " 15472 26 " 3500 " " Galvanized. 15475 20-inch, 2700 pounds, per 1000 p 15476 24 " 3200 " " 15477 26 " 3500 " " 15478 28 " 3900 " "	Approx. welght per 1000 pair.: 15470 20-inch, 2700 pounds, per 1000 pair. 15471 24 3200 " " 15472 26 3500 " " Galvanized. 15475 20-inch, 2700 pounds, per 1000 pair. 15476 24 3200 " " 15477 26 3500 " "

Lag Bolts.

-6	
	THE RESERVE OF THE PARTY OF THE
6	**************************************
76	

	1	rice per nundr	ea.	
Length.	% in.	34 in.	⅓ in-	¾ in.
2	\$2.88	\$4.05	\$4.95	
21/2	3.06	4.35	5.40	\$ 7.92
3	3.24	4.65	5.85	8.58
31/2	3.42	4.95	6.30	9.24
4	3 60	5.25	6.75	9.90
434	3.78	5.55	7.20	10 56
5	3.96	5.85	7.65	11.22
51/2	4.14	6.15	8.10	11.88
6	4.32	6.45	8.55	12:54
7	4.68	7.05	9.45	13 86
8	5.04	7.65	10.35	15.18

Carriage Bolts.



		Price per hundr	red.	
Length.	¼ in. \$1.08	% in. \$1.50	34 in. \$3.00	% in. \$ 5.00.
21/2	1.16	1.64	3.00	5.00
3	1.24	1.78	3.00	5.00
314	1.28	1.85	3.10	5 15
31/2	1.32	1.92	3.20	5.30
334	1.36	1.99	3.30	5.45
4	1.40	2.06	3 40	5.60
414	1.44	2.13	3.50	5.75
43/2	1.48	2.20	3.60	5.90
434	1.52	2.27	3.70	6.05
5	1.56	2.34	3.80	6.20
51/2	1.64	2.48	4.00	6 50
6	1.72	2.62	4.20	6.80
61/2	1.80	2.76	4.40	7.10
7	1.88	2.90	4.60	7.40
71/2	1.96	3.04	4.80	7.70
8	2.04	3,18	5.00	8.00

Machine Bolts.

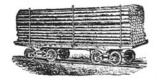


		rice per hundre		
Length,	34 in.	% Un.	1/2 in.	% in∙
21/2	\$1.86	\$2.64	\$4.00	\$5.80
3	1.94	2.76	4.20	6.10
31/2	2.02	2.88	4.40	6.40
4	2.10	3.00	4.60	6.70
4 1/2	2.18	3.12	4.80	7.00
5	2.26	3.24	5 00	7.30
51/2	2.34	3 36	5.20	7.60
6	2.42	3.48	5.40	7.90
61/2	2.50	3.60	5.60	8.20
7	2.58	3.72	5.80	8.50
71/2	2.66	3.84	6.00	8.80
8	2.74	3.96	6.20	29.10
9	2.90	4.20	6.60	9.70
10	3.06.	4.44	7.00	10.30



Washers.

At market prices.



Wood Poles.

SPECIAL PRICES QUOTED ON APPLICATION.

Round Cedar.

Len 25 f	gth. feet.	5	Top.	Weight in Lbs. 200	No. to Carle as
25	**	6		275	110
30		6	3 "	325	100
30	4+	7		450*	80
35	**	€	3	500	120
35	4+	7	7 64	600	110
40	**		3 "	700	100
40		-	,	800	90
45			3 .	950	82
45			7	1100,	60
50	"		3 "	1250	40
50			7 '	1450	25
55	**		3	1500	30
55	**		7 "	1800	25

Norway Pine.

40	feet.	7 i	nches	1100	90
45	**	7	**	1200	80
50	**	7	**	1350	72
55	**	7	**	1500	65
60		7	49	1700	55
65	**	7	**	2000	45
70		7	9	2400	50
75		7	**	2800	45
80	**	7	44	3400	35
85		7	44	3800	30

Norway Pine Octagonals.

28	feet.	6 i	nches.	9 ir	nch butt.	75
28	**	7	**	10	**	60
28		8	**	11	**	50
30	11	6		9	11	75
30	**	7	4.6	10	**	60
30	11	8		11	**	.50
32	11	6	14	9	11	65
32	**	7	**	10		50
32	11	8	14	11		40
34		6	**	9	**	65
34		7	**	10	**	50
34	**	8	**	11	**	40

 Six fect of the butt treated with preservative, balance of pole painted drab, tops upped.

List Price.

Per 100.



No. 3528.

No. 24433.

No. 24434.

Pole Steps.

List No.

Norton	15480	9 X9 F	Black		\$	6.00
Norwalk	15481	2x9 (alva	nized.		8.00
Norway	15482	56x9 I	Black			7.00
Norwich	15483	58×9 C	lalva	nized		9.00
Booby	3528	8x ½	F.D	black	pole steps	6.20
Book:	3529	9x 1/2	4.6	**	66	6.75
Bookful	3530	10x 1/2	41	44	66	7.00
Booking	3531	8x 58	*1	**	44	6.70
Bookish	3532	9x 58	- 69	**	44	7.00
Boom	3533	10x 5%	**	**	4.4	7.25
Boomed	3534	8x 1/2	**	galv.	4.4	8.00
Boomerang	3535	9x 1/2	**	**	44	8.25
Boot	3536	10x 1/2	44	**	44	8.50
Booted	3537	8x 5/8	**	**	**	9.00
Booth	3538	9x 58	**	4.4	**	9.25
Bootless	3539	10x 5%	**	**	**	9.50

Cutter Detachable Polesteps.

Are easier to carry than a Trimmer's Ladder. A pair of Sockets are fastened to the pole and the trimmer carries a pair of Polesteps to fit them (weight per pair less than one pound). He slips the steps into their socket, goes up the pole to trim the lamp, then puts the steps into his pocket and goes on to the next lamp.

All of malleable iron, japanned.

*Solarium	24433	Sockets, per pair	\$0.20
Solarization	24434	Polesteps, per pair	.30



Galvanized Guy Clamps.

For fastening guy wires and cables, large size is $5\frac{1}{2}$ inches long; small size 3 inches long.

Acquittal	25603	Large size with three bolts	-40
Aequittance	25604	Small size with two bolts	.20

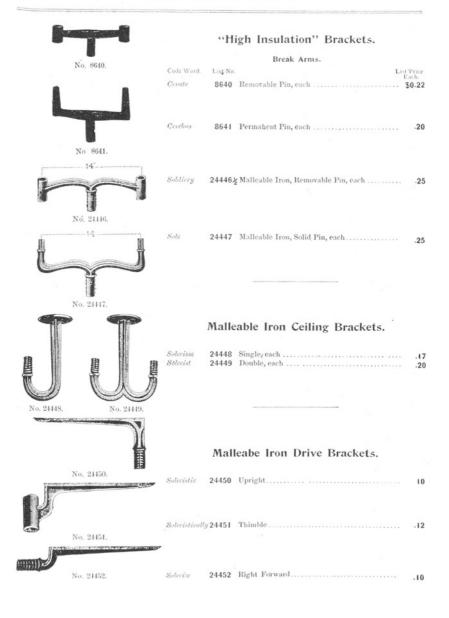
Small size,





Crosby	Clips.	
-10003	wiipe.	

	I	iam. I	Rope.										Each.
Oakville	15484	3/8-	inch								ŀ		.25
Oakland	15485	1/2	**										.30
Oaklawn	15486	58	**										.35
Oakdale	15487	34											.40
Oakfield	15488	7/8	**										.45
Oakford	15489	1	**										.50
Otkwood	15490	11/8	**										.50
Obeida	15491	114	**										.50
Oconto	15492	13%	**	ı									.55
Ocean	15493	116	**	,		 		٠.					.60



\$0.24

.24

.13

.17

.17

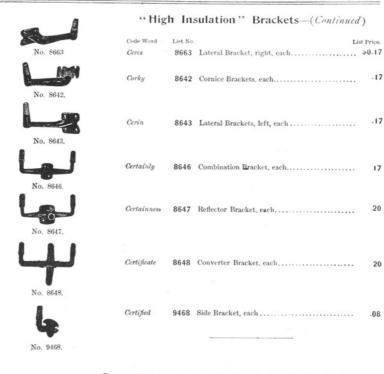
.08

.12

High Insulation Brackets. Loop or Spreader Brackets. Code Word. List No. 8657 Left, each Cereal Cerebrul 8658 Right, each Cerebrum 8659 Forward, each..... 8660 Wall Bracket, each..... Cerement 8662 Roof Bracket, straight, each No. 8660. Ceremony 8661 Roof Bracket, offset, each Solely 24453 Malleable Wall Bracket, each ,..... No. 24453. No. 8661. Malleable Iron Roof Bracket. Solemn 24454 Each No. 24454. Malleable Iron Pins. No. 24455. Solemnity 24455 5 inches above Cross Arm

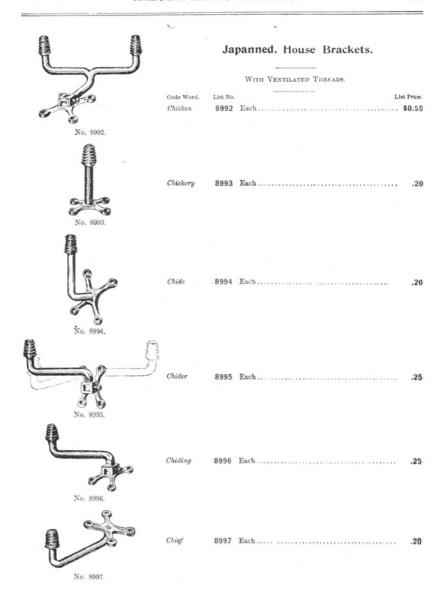
Solemnize 24456 8½ inches above Cross Arm....

No. 24456;



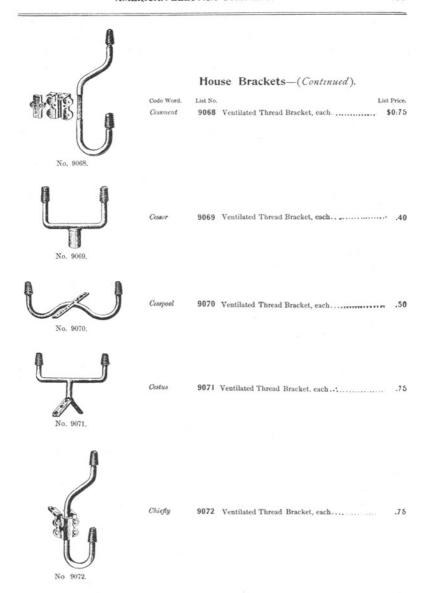


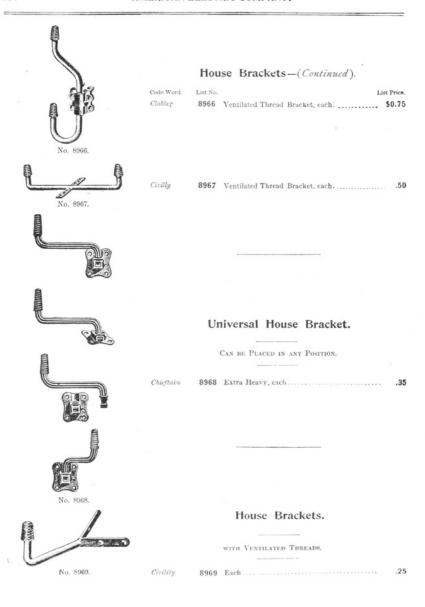
Fletcher's Double Pin Bell Break Arm



		J	apanned. Wall Plates.	
No. 9065.	Code Word.	List No. 9065	WITH PORCELAIN KNOBS List Each	Price.
No. 9066.	Chewing	9066	Each	.20
No. 9067.	Chicanery	9067	Each	.30
No. 8636.	Certitude	8636	House Brackets. Adjustable House Bracket, each	.45
No. 8837.	Cessation	8637	Adjustable House Bracket, each	.45
No. 8638.	Cessible	8638	Ventilated Thread Bracket, each	.40
	Cession	8639	Ventilated Thread Bracket, each	.75

No. 8639.







House Brackets—(Continued).

List Price. Code Word. List No. 8970 Each ... \$0.15 Civilized



No. 8971.



No. 8972.

Civilizer 8971 Each.....

Wire, Cord and Cable.

Habirshaw White Core.

	a recommendate to			
Solid Conductors	, Braided.	Stranded	Conductors,	Braided.

								,	
Code Word.	List No.	Gauge B. & S.	Approx. Outside Diam. in 32ds of in	Price per	Code Word.	List No.	Gauge B. & S.	Approx. Outside Diam. in 32ds of in	Price per 1000 Ft.
Solicitation	25001	14	6	\$15.00	Solidity	25013	8	10	\$50.00
Solicitor	25002	12	7	23.00	Solidly	25014	6	11	62.00
Solicitous	25003	10	8	30.00	Solidness	25015	5	13	78.00
Solicitously	25004	8	. 9	36.00	Solifidian	25016	4	$13\frac{1}{2}$	96.00
Selicitress	25005	6	10	50.00	Soliloquize	25017	3	141	136.00
Solicitude	25006	5	12	69.60	Soliloguy	25018	2	16	156.00
Solidarity	25007	4	13	76.00	Soliped	25019	1	17	200.00
Solidate	25008	3	134	90.00	Solitair	25020	0	18	210.00
Solify	25009	2	145	118.00	Solitarily	25021	00	19	228.00
Solidism	25010	1	151	135.00	Solitariness	25022	000	21	260.00
Solidist	25011	0	16±	180.00	Solitary	25023	0000	24	340.00

Habirshaw Standard Red Core.

No. 3000.

Solid Conductor, 500 Volts, Taped Outside.

Code Word.	List No.	Gauge, B. & S.	Approximat Outside Diam 32nds of an In	in.						List Price, per Foot.
Abacus	3000%	18	4			 				\$0.0216
Abaft	3001	16	51							023/
Abandoner	3002	14	6			 				03%
Abandoning	3003	12	7							04:/
Abase	3004	10	8							063%
Abasement	3005	8	9							00.7
Abash	3006	6	10		 	 				11%
Abashed	3007	5	12		 	 	 			10.1
Abashing	3008	4	13			 	 			151/
Abate	3009	3	131		 	 				
Abated	3010	2	141		 	 				231/2
Abatement	3011	1	154			 				01.1
Abater	3012	0	.161		 	 				
					 	 		٠.		

Solid Conductor, 500 Volts, Braided Outside.

inimpinin	and the same	ı	Gauge,	Approxim Outside Dia	m. in	
27 40.0			B. & S.	32nds of an	Inch.	
No. 3013.	Abattoir	3013	18	4		.0234
	Abbacy	3014	16	51		.03
	Abbess	3015	14	6		.03%
	Abbey	3016	12	7	********************	.05
	Abject	3017	10	8	************************	.06%
	Abjection	3018	8	9		.081/2
	Abjectly	3019	6	10		.12
	Abjectness	3020	5	12		.14
	Abjure	3021	4	13		.16
	Ablation	3022	3	134		.18%
	Ablative	3023	2	141		.241/2
	Ablaze	3024	1	154		.321/2
	Able	3025	0	164		

Habirshaw Standard Red Core—(Continued).



Stranded Conductor, 500 Volts, Braided Outside.

No 3026

Çode Word.	List No.	Gauge. B. & S	Circular Mils.	Outside Diameter in 32nds of an inch	L							List Price per Foot.
Ablution	3026	12	6.529	. 7							 . !	\$0.051/2
Ably	3027	10	10,381	8		.,						.07
Abnegate	3028	8	16,509	10						 	٠	.101/2
Abnormal	3029	6	26,250	11	. ,					 		.171/2
Aboard	3030	5	33,102	13						 		.1934
Abode	3031	4	41,742	131								.241/4
Abolish	3032	3	52,634	141							٠	.291/4
Abolisher	3033	2	66,373	16								.323/4
Abolition	3034	1	83,694	17				. ,		 ٠.		.36
Abominably	3035	0	105,592	18			, .			 		.471/2
Abominate	3036	00	133,079	19						 		.60
Abominated	3037	000	167,805	21					,			.68
Abominating	3038	0000	211,600	24	٠.					 		.88



Grimshaw White Core Wire.

Solid Conductor, Double Coated, Taped, Black or White Braid.

		Trade No.	B. & S. Gauge.	Safe Carrying Capacity, Bare Wire, in Amp, 120° F.	Circular Mils. (dz) 1 Mil;— ,001 inch.	Outside Diam. of Insulation, .001 inch.	Price per 100 Feet.
Archives	3104	220	18	6	1624.	.125	\$1.90
Archness	3105	221	18	6	1624.	.156	2.00
Archway	3106	223	16	10	2583.	.125	2.15
Archwise	3107	224	16	10	2583.	.156	2.20
Arctic	3108	228	14	15	4107.	.187	2.70
Ardour	3109	229	14	15	4107.	.218	3.00
Area	3110	231	12	21	6530.	.218	3.50
Arena	3111	232	12	21	6530.	.250	3.70
Argent	3112	235	10	32	10381.	.250	4.50
Argument	3113	236	10	32	10381.	.281	5.00
Arid	3114	237	8	44	16509.	.281	5.50
Aridity	3115	238	8	44	16509.	.343	6.50
Aright	3116	239	6	60	26250.	.343	8.25
Arise	3117	240	6	60	26250.	.406	9.50
Arisen	3118	241	5	68	33102.	.406	9.90
Aristocrat	3119	242	5	68	33102.	.468	10.25
Ark	3120	243	4	83	41742.	.406	10.50
Armorer	3122	244	4	83	41742.	.468	12.50
Armorial	3123	245	3	164	52634.	.437	12.75
Armoric	3124	2451	3	104	52634.	.500	14.25
Armory	3125	246	2	118	66373.	.468	15.75
Armpit	3126	2461	2	118	66373.	.531-	17.25
Army	3127	247	1	135	65393.	.500	21.00
Arnot	3128	2171	1	135	83694.	.562	23.00
Arousing	3129	248	0	179	105592.	.531	27.25
Arras	3130	2481	0	179	105592.	.593	30.75

Grimshaw White Core Wire-(Continued).

Stranded Conductors, Double Coated, Taped, Black or White Braid.

Code Word.	List No.	Trade No.	B. & S. Gauge.	Safe Carrying Capacity. Bare Wire in Amp. 120° F.	Circular Mils. (d ²) 1 Mil.= .001 inch.	Outside Diam of Insulation, .001 inch.	List Price, per 100 Ft.
Assayer	3131	704	8	44	16509.	.343	\$8.00
Assaying	3132	705	6	60 -	26250.	.375	9.50
Assecure	3133	706	6	-60	26250.	.437	11.00
Assemblage	3134	707	5	68	33102.	.461	12.00
Assemblance	3135	708	4	83	41742.	.461	14.50
Assembling	3136	709	5	83	41742.	.523	16.00
Assembly	3137	710	3	104	52634.	.483	18.00
Assent	3138	711	3	104	52634.	.545	19.50
Assenter	3139	712	2	118	66373.	.539	20.00
Assenting	3140	713	2	118	66373.	.601	23.00
Assentment	3141	714	1	135	83694.	.544	27.00
Assert	3142	715	1	135	83694.	.606	30.00
Asserted	3143	716	0	179	105592.	.593	30.00
Asserting	3144	717	- 0	179	105592.	.656	35.50
Assertion	3145	718	0.0	210	133079.	.656	38.00
Assertive	3146	719	00	210	133079.	.718	43.00
Assessable	3147	720	000	251	167805.	.718	48.00
Assession	3148	721	000	251	167805.	.791	53.00
Assessor	3149	722	0000	275	211600.	.718	58.00
$\Delta sseverate$	3150	723	0000	275	211600.	.791	63.00

Raven Core Wire-Braided.



				Solid.			
Deputing	1229	320	18	6	1624.	.125	1.65
Deputy	1230	321	18	6	1624.	.156	1.75
Derange	1231	323	16	10	2583.	.125	1.75
Deranged	1232	324	16	10	2583.	.156	1.85
Derangement	1233	327	14	15	4107.	.156	2.10
Derelict	1234	328	14	15	4107.	187	2.30
Deride	1235	331	12	21	6530.	.218	3.25
Deriding	1236	332	12	21	6530.	.250	3.55
Derision	1237	334	10	32	10381.	.218	4.00
Derivation	1238	335	10	32	10381.	.250	4.10
Derive	1239	337	8	44	16509.	.281	4.75
Deriving	1241	338	8	44	16509.	.343	5.75
Derogation	1242	339	6	60	26250.	.343	6.50
Deregatory	1243	340	6	60	26250.	.406	8.40
Despotic	1244	341	5	68	33102.	.406	8.90
Despotism	1245	342	5	68	33102.	.468	9.50
Destination	1246	343	4	83	41742.	.406	9.60
Destine	1247	344	4	83	41742.	.468	11.50
Destiny	1248	345	3	104	52634.	.437	11.25
Destitution	1249	346	3	104	52634.	.500	12.75
Destroy	1250	347	2	118	66373.	.468	14.75
Destroying	1251	348	2	118	66373.	.531	16.25
Destructible	1252	349	1	135	83694.	.500	19.00
Destructive	1253	350	1	135	83694.	.562	21.00
Desultory	1254	351	0	179	105592.	.531	26.25
Detach	1255	352	0	179	105592.	.592	29.75

Raven Core Wire-Braided-(Continued).

Stranded.

Code Word.	List No.	Trade No.	B. & S. Gauge.	Safe Carrying Capacity, Bere Wire in Amp. 120° F.	Circular Mils, (d²) 1 Mil.→ .001 inch,	Outside Diam of Insulation .001 inch.	
Emarginate	1869	804	8	44	16509.	.343	\$6.25
Embassy	1870	805	6	60	26250.	.375	7.75
Embedded	1871	806	6	60	26250.	.437	³ 9.00
Embellish	1872	807	5	68	33102.	.461	9.75
Embers	1873	808	4	83	41742.	.461	12.00
Embezzle	1874	809	4	83	41742.	.523	15.00
Emanated	1875	810	3	104	52634.	.483	16.60
Emanation	1876	811	3	104	5 263 4 .	.545	18.00
Emancipate	1877	812	2	118	66373.	.539	19.00
Emancipator	1878	813	2	118	66373.	.601	22.00
Emancipist	1879	814	1	135	83694.	.544	26.00
Emanuel	1880	815	1	135	83694.	.606	29.00
Elude	1881	816	0	179	105592.	.593	28.25
Elvira	1882	817	0	179	105592.	.656	32.15
Emaciate	1883.	818	00	210	133079.	.656	36.00
Emaciated .	1884	819	00	210	133079.	.718	41.00
Emaculate	1885	820	000	251	167805.	.718	42.50
Emanate	1886	821	000	251	167805.	.729	47.50
Embolden	1887	822	0000	275	211600.	.718	55.00
Embosom	1888	823	0000	275	211600.	.791	60.00

Grimshaw Duplex Fixture Wire.

Taped or Braided.

			B. & S. Gauge.	Safe Carrying Cap., each Cond. Bare Wire, in Amp. 120° F.	Outside Diam. of Insulation .tol meh.	
Listful	1169	Taped	14	15	.218	5.00
Listless	1170		16	10	.218	4.50
Literat	117#		18	6	.218	4.00
Literalism	1172	Braided	14	15	.218	5.00
Literalness	1173	ø ,	16	10	.218	4.50
Literary	1174	*	18	6	.218	4.00

Okonite Wire.

Low Tension Currents, from 100 to 500 Volts.

Solid Conductor, Plain Finish.



Code Word.	List No.	Size of Conductor A. W. G.	Outside Diameter of Insulation. Inches.	Approximate Weight per Mile. Pounds.	Insulation Resistance per Mile. Megohms.	List Price, Per foot.
Ascendant	3158	22	.075	32	500	\$.01%
Ascending	3159	20	091	42	500	.021/8
Ascension	3160	18	.102	56	500	.021/2
Ascertain	3161	16	.120	78	500	.03
Ascetic	3162	14	.148	127	500	.041/8
Ascribe	3163	12	.165	178	500	.051/8
Ascribing	3164	10	.175	236	500	.061/2
Ashamed	3165	9	.183	273	500	.07
Ashore	3166	8	.192	333	500	.08
Ashpan	3167	7	.220	422	500	.091/2
Assassin	3168	6	.252	534	500	12%
Assassinate	3169	5	.276	663	500	.15%
Assation	3170	4	.300	815	500	.1914
Assault	3171	3	.340	1,036	500	.23
Assaulted	3172	2	.372	1,238	500	.28
Assaulting	3173	1	430	1,657	500	.35
Assay	3174	0	.500	2,134	500	.45
.4ssayed	3175	00	.560	2,693	500	.60

Solid Conductor, Braided Finish.

Alertness	3211	22	.075	40	500	.021/4
Alexand	3212	20	.091	50	500	.021/
Alfred	3213	18	.102	66	500	.03
Algebra	3214	16	.120	90	500	.031/2
Algebraical	3215	14	.148	143	500	.0434
Algernon	3216	12	.165	195	500	.06
Algous	3217	10	.175	254	500	.071/8
Alice	3218	9	182	291	500	.0758
Alias	3219	8	.192	351	500	.08%
Alienable	3220	7	.220	446	500	.111/8
Alienation	3221	6	.252	563	500	.131/4
Alienator	3222	5	.276	702	500	.16%
Alience	3223	4	.300	859	500	.19%
Alife	3224	3	.340	1,087	500	.241/4
Align	3225	2	.372	1,299	500	.2914
Aliment	3226	1	.430	1,750	500	.37
Alimental	3227	0	.500	2,238	500	.4714
Alimentally	3228	00	.560	2,799	500	.61

Okonite Wire-(Continued).

Stranded Conductor, Plain Finish.



Code Word.	List No.	Size of Conductor Equals. A. W. G.	No. of Strands, B. W. G.	Outside Diameter of Insulation. Inches.	Weight-		List Price.
Assistless	3176	22	7x30*	.091	35	500	\$0.0214
Assize	3177	20	7x30	.102	46	500	.02 %
Assized	3178	18	7x26*	.114	63	500	.031/8
Assizer	3179	16	7×24	.144	101	500	.041/8
Associable	3180	14	7x23	.162	139	500	.0514
Associate	3181	12	7x20*	.182	191	500	.061/2
Associated	3182	11	7x20	.192	234	500	.0714
Associating	3183	10	7x18*	.204	270	500	.081/4
Associative	3184	9	7x17*	.212	325	500	.0914
Associator	3185	8	7x18	.220	360	500	.09 3/8
Assoil	3186	7	7x17	.238	468	500	.1114
Assoilment	3187	6	7x16	.289	623	500	.15%
Assonance	3188	5	7x15	.300	-735	500	.16%
Assonant	3189	4	7x14	.340	958	500	.211/4
Assuage	3190	3	7x11*	.380	1,155	500.	.26
Assuaged	3191	2	19x17	,440	1,409	500	.341/2
Assuaging	3192	1	19x16	.489	1,730	500	.411/4
Assuasive	3193	0	19x15	.530	2,110	500	.50
Assuetude	3194	00	12x12	.590	2,810	500	.61
Assume	3195	000	19x11*	.620	3,120	500	.69
Assumed	3196	0000	19x12	.730	4,460	500	.98

Stranded Conductor, Braided Finish.

Alimentary	3229	22	7x30*	.091	44	500	.02¾
Ailmentation	3230	20	7x30	.102	56	500	.031/8
Aliquant	3231	18	7x26*	.114	75	500	.0334
Aliquot	3232	16	7x24*	.144	118	500	.05
Alive	3233	14	7x23	.162	157	500	.06
Alkali	3234	12	7×20*	.182	209	500	.071/8
Alkaline	3235	11	7x20	.192	252	500	.08
Alkaloid	3236	10	7x18*	.204	295	500	.09
Allan	3237	9	7x17*	.212	348	500	.10
Allay	3238	8	7x18	.220	384	500	.101/2
Allegation	3239	7	7x17	.238	495	500	.121/4
Allege	3240	6	7x16	.289	666	500	.1634
Alloging	3241	5	7x15	.300	780	500	.18
Alliant	3242	4	7x14	.340	1,007	500	.221/2
Allied	3042	3	7×11*	.380	1,212	500	.271/4
Alligate	3243	2	19x17	.440	1,473	500	.361/2
Allision	3244	1	19x16	.480	1,803	500	.421/
Alliteration	3245	0	19x15	.530	2,192	500	52
Allopathy	3246	00	12x12*	.590	2 897	500	.63
Allot	3247	.000	19x12	.620	3 250	500	.71
Allotment	3248	0000	19x12	.730.	4 606	500	1.01

*American Wire Gauge.

Kerite Wire—Solid.



		Plain.				
			Diameter of	Diameter of	Diameter of	
Code Word.	List No	B. & S. Gauge.	Copper,	Insulation, Mils.	Diameter of Insulation, Inches.	List Price, per 100 Ft.
Haggled	1889	20	.0319	.078	\$2	\$1.75
Haggling	1890	20	.0319	.093	3,2	1.75
Hailing	1891	18	.040	.078	2,2	1.75
<i>Hailstone</i>	1892	18	.040	.093	222	1.90
Halberd	1893	18	.040	.125	3 2	2.00
Haleyon	1894	16	.050	.093	23.2	2.00
Halibut	1895	16	.050	.125	2,8	2.25
$H_{alliard}$	1896	16	.050	.156	B 2	2.75
Halter	1897	14	.064	.125	34	2.50
Halting	1898	14	.064	.156	352	3.00
Halring	1899	14	.064	.187	242	3.25
Ham	1900	14	.064	218	373	3.75
Hamble	1901	12	.080	.156	35	3.25
Hamlet	1902	12	.080	.187	33	3.75
Hammering	1903	12	.080	.250	352	5.50
Hammock	1904	10	.101	.218	87	5.75
Hamper	1905	10	.101	.250	382	6.25
Hampered	1906	8	.128	.218	372	7.00
Hampering	1907	8	.128	.250	1/2	8.25
Hamstring	1908	8	.128	.281	38	9.75
Hanaper	1909	7	.144	250	38	8.50
Handcuff	1910	7	.144	.281	89	10.00
Handcuffed	1911	6	.162	.250	202	9.00
Handfast	1912	6	.162	.281	3,2	9.50
Handicraft	1913	6	.162	.312	10	10.75
Handiness	1914	5	.181	.281	325	10.50
Handle	1915	5	.181	.312	12	11.00
Handling	1916	4	.204	.281	37	11.50
Hannah	1917	4	.204	.312	10	12.50
Handscrew	1918	4	.204	.375	13	14.00
Handsome	19!9	3	.229	.375	12	13.50
Handsomely	1920	3	.229	.437	14	17.50
Hang	1932	2	.257	.406	18	19.00
Hanged	1933	2	.257	.468	16	23.00
Hanging	1934	1	.289	.500	11	25.00
Hangman	1935	1	.289	.562	1 n	27.00
Hangnail	1936	0	.324	.562	18	30.00
Hanker	1937	0	.324	.625	39	34.00
Hankering	1938	00	.364	.562	38	35.00
Hapless	1939	00	.364	.625	88	40.00

Kerite Wire—Solid—(Continued).

Taped or Braided.

		Col	PPER.		INSULATION		
Code Word.	List No.	B. & S. Gauge.	Diam of Copper, Mils.	Diam. of Insulation, Mils.	Diam. of Insulation, Inches.	Outside Di Braid,	am. List Price. per 100 Ft.
Haply	1950	20	.0319	.078	B T	11ches	\$2.00
Happen	1951	20	.0319	.093	3 8 2	5 3 3	2.00
Happening	1952	18	.040	.078	54	r ^a r	2.00
Happily	1953	18	.040	.093	38	3 2	2.15
Happiness	1954	18	.040	.125	33	<u>6</u>	2.25
Нарру	1955	16	.050	.093	33	a^a	2.25
Harangue	1956	16	.050	.125	34	5 N	2.50
Horangued	1957	16	.050	.156	5 3 2	7 8 2	3.00
Haranguing	1958	14	.064	125	*	. 3 ⁶ 2	2.75
Harass	1959	14	,064	.156	ň	7 88	3.25
Harassing	1960	14	.064	.187	3.2	33	3.50
Harbinger	1961	14	.064	.218	3 ⁷ 8	33	4.00
Harbor -	1962	12	.080	.156	Źs.	73	3.50
Harborage	1963	12	.080	.187	8 2	37	4.00
Habit	1964	12	.080	.250	34€	10 32	5.75
${\it Habitation}$	1965	10	.101	.218	5 ² 2	3,2	6.00
Habited	1966	10	.101	.250	3 2	10 88	6.50
Habitual	1967	8	.128	.218	372	32	7.25
Habitude	1968	8	.128	.250	3.5	10	8.50
Hack	1969	8	.128	.281	3 2	1 1 8 2	10.00
Hacking	1970	7	.144	.250	8 8	10	9.00
Ilackney	1971	7	.144	.281	* * 3	11	10.50
Haddock	1972	6	.162	.250	88	10	9.50
Ilades	1973	6	.162	.281	38	11	10.00
Haggard	1974	6	.162	.312	18	12 3¥	11.25
$Haggardly_{\bullet}$	1975	5	.181	.281	38	$\frac{1}{3}\frac{1}{2}$	11.00
Haggle	1976	5	.181	.312	10	32	11.75
Embroil	1977	4	.204	.281	. 33	1 1 3 2	12.25
Embryo	1978	4	.204	.312	10	12	13.25
Embryonic	1979	4	.204	.375	1 2 3 9	1 4 8 2	14.75
Emerge	1980	3	.229	.375	32	14	14.50
Emergency	1881	3	.229	.437	1 4 8 2	1 c 3 2	18.50
Emerging	1982	3	.257	.406	53	15 89	20.08
Embottling	1983	2	.257	.468	1 5 2 5	17 32	24.00
Embracing	1984	1	.289	.500	1 6 3 9	1 S	26.00
Embrasure	1985	.1	.289	.562	12	3 3 3 3	28.00
Embrave	1986	0	.324	.562	32	9 O	32.00
Embroglio	1987	0	.324	.625	33	22	36.00
Embroider .	1988	00	.364	.562	18	2 O 8 2	38.00
E mily	1989	00	.364	.625	\$ 0 5 \$	31	44.00

Kerite Wire.—(Continued.)

Stranded Electric Light Conductors.

Plain Insulation.

Gauge B. & S	Strands.	Insulation Outside Diam Mils001 In	Insulation Outside Diam Inches	Price per 100 Feet
6	7 x 14 A	312.5	10-32	11.00
6	7 x 16 B 7 x 16 B	375.	12-32	13.00
6	7 x 16 B	437.5	14-32	16.5 0
5	7 x 15 B 7 x 15 B	375.	12-32	13.00
5	7 x 15 B	437.5	14-32	17.25
4	7 x 12 A	375.	12-32	15.00
4	7 x 12 A	437.5	14-32	18.00
6554443332222110	7 x 12 A	500.	16-32	22.00
3	1 x 12 6 x 14 B	375.	12-32	17.50
3	1 x 12— 6 x 14 B	406.2	13-32	18.50
3	1 x 12 6 x 14 B	500.	15-32	21.00
2	1 x 12 6 x 13 B	406.2	13-32	19.00
2	1 x 12 6 x 13 B	437.5	14-32	20.50
2	1 x 16—18 x 17 B	468.7	15-32	22.00
1	1 x 11 6 x 12 B	437.5	14-32	24.00
1	1 x 15—18 x 16 B	500,	16-32	26.00
	1 x 10 - 6 x 11 B	562.5	18-32	30.00
0	1 x 14—18 x 15 B	625	20-32	34.00
00	7 x 7 A	562.5	18-32	36.00
00	19 x 12 A	625.	20-32	41.00
00	1 x 1318 x 14 B	687,5	22-32	45.00
000	1 x 8→ 6 x 9 B	625.	20-32	60.00
000	19 x 11 A	687.5	22-32	63.00
000	19 x 11 A	750,	24-32	66.00
0000	7 x 7 B	687.5	22-32	76.00
0000	19 x 12 B	7 50.	24-32	82.00
0000	19 x 12 B	812.5	26-32	88.00

Covered Insulation.

	Insulation.	Insulation.	List Prices	List Prices
Gauge	Outside Diam.	Outside Diam	per 100 Feet.	per 100 Feet
B. & S.	Mils .001 In.	Inches.	·Braided.	Taped and Braided.
				13.00
6	312.5	10-32	12.00	
6	375.	12-32	14.00	15.00
6 5 5 4	437.5	14-32	17.50	18.50 15.00
ទ្	375.	12-32	14.00	19.25
ē	437.5	14-32	18.25	17.00
	375.	12-32 14-32	16.00 19.00	20.00
4	437.5		23.00	24.00
4 4 3 3 2 2 2 1	500.	16-32 12-32		19.50
3	375.	12-32	18.50 20.50	21.50
3	406.2	15-32	22.00	23.00
3	500.	13-32	20.00	21.00
ž	406.2 437.5	14-32	21.50	23.00
2		15-32	23.50	26.00
z	468.7	19-32 14-32	25.50 25.50	28.00
į.	437.5 500.	16-32	28.00	30.00
0		18-32	32.00	34.00
	562.5 625.	20 32	36.00	38.00
0		18-32	38.00	40.00
00	562.5	20-32	43.00	45.00
00	625. 687.5	22-32	47.00	50.00
00	087.0 625.	20-32	62.00	66.00
000 000	687.5	22-32	66.00	70.00
000	750	24-32	70.00	75.00
0000	687 ō	22-32	80.00	85.00
0000	750.	24-32	85.00	90.00
0000	812 5	26-32	93.00	98.00
0000	012 0			20.00





Clark Wire.

Solid.

Code Word	List No.	B. & S.	Diam. Wire in the decimal of an inch,	Diam. Gum 32d of inch.	Total Diam. Outside Braid.	Approximaté Pounds Per 100 Feet.	Price Per 100 Feet
Sluggard	24150	18	.040	4-32	5-32	2.35	\$1.65
Sluggardy	24151	16	.051	5-32	6-32	2.70	1.80
Sluggish	24152	14	.064	5-32	6-32	3.20	1.80
Sluggishly	24153	14	.064	6-32	7-32	3.40	2.00
Sluggy	24154	14	.064	7 - 32	8-32	4.79	3.00
Slugs	24155	12	.081	6-32	7-32	4.30	2.50
Stuice	24156	12	.081	7 - 32	8-32	5.30	3.00
Sluicegate	24157	10	.102	8-32	10-32	7.00	4.00
Sluiey	24158	10	.102	9 - 32	11 - 32	7.77	4.50
Slum	24159	9	114	9 - 32	11 - 32	8.00	4.60
Slumber	24160	- 8	.129	9 - 32	11 - 32	10.12	4.70
Slumberer	24161	8	.129	10 - 32	12 - 32	10.92	6.00
Stumberless	24162	7	.144	9-32	11 - 32	10.25	6.20
Slumbery	24163	6	.162	10-32	12 - 32	14.00	7.20
Slump	24164	6	.162	12-32	14-32	15.57	9.00
Slumpy	24165	6	.162	14 - 32	16-32	18.72	10.80
Slung	24166	5	.182	12 - 32	14-32	16.00	9.60
Slungshot	24167	4	.204	12-32	14-32	20.33	10.00
Slunk	24168	4	204	14-32	16 - 32	21.87	12.00
Slur	24169	3	.229	15 - 32	17 - 32	23.00	12.60
Sturred	24170	2	258	16 - 32	18-32	31.25	15.30
Stush	24171,	1	.289	17 - 32	20 - 32	43.78	20.70
Slushy	24172	0	.324	19-32	22-32	50.00	24.00
Slutch	24173	• 00	. 365	21-32	22 - 32	54.00	30.00
Slutchy	24174	000	.409	23-32	25 - 32	66.50	37.00
Sly	24175	0000	.460	25 - 32	27 - 32	81.00	45.00
			Str	anded.			
Smeir	24200	10	12.17	10-32	12-32	10.94	5.40
Smell	24201	8	****	10-32	12 - 32	14.06	7.20
Smeller	24202	6		12 - 32	14-32	20.31	10.80
Smelling	24203	4		14 - 32	16 - 32	21.87	13.00
Smelt	24204	3		16 - 32	19-32	-29.69	16.00
Smelter	24205	2		17 - 32	19-32	34.37	18.00
Smeltery	24206	1		18-32	21 - 32	43.75	24.00
Smerlin	24207	0		22-32	25 - 32	59.37	30.00
Smew	24208	00		24 - 32	27 - 32	65.63	35.00
Smicker	24209	000		26 - 32	29 - 32	75.50	42.00
Smicket	24210	0000		28-32	31 - 32	90.00	50.00

Flexible Clark Wire.

Diameter of Insulation given is exclusive of Outside Braid.

Made up of No. 26 B. W. G. Wire.

Code Word.	Ļist No.	No. B. & S. Gauge.	Diam. Wire in the decimal of an inch.	Circular Mils D2	Number of Wires.	Diam. Gum 32d of inch.	Price per 100 Feet.
Smilatine	24212	18	.040	1624.3	5	5-32	\$2.70
Smilax	24214	16	.051	2582.7	8	5-32	2.70
Smile	24215	14	.064	4106.8	13	7-32	3.60
Smileless .	24216	12	.081	6529.9	21	8-32	5.40
Smiles	24217	10	.102	10382.	35	9-32	7.20
Smilingly	24218	8	.129	16510.	56	12 - 32	10.80
Smilingness	24219	7	. 144	20817.	63	12-32	12.00
Smirch	24220	в	.162	26250.	84	14~32	14.40
Smirk	24221	5	. 182	33102.	105	14 - 32	18.00
Smirky	24222	4	.204	41742.	126	15-32	21.60
Smite	24223	3	.229	52634	161	17-32	25.20
Smiter	24224	2	.258	66373.	203	18-32	28.80
Smith	24225	1	.289	83694.	259	20-32	32.40
Smither	24226	0	.324	105534.	329	22 - 32	37.20
Smithery	24227	00	.365	133079.	413	24-32	43.20
Smithing .	24228	000	.410	167805.	528	26 - 32	52.80
Smithsonian	24229	0000	.460	211600.	651	28-32	64.80

Clark Elevator Electric Light Cable.

Braided.

		B. & S.	Diam. Gum 32d of inch.	Total Diam. Braided.	Price per 100 Feet
Smithy	24230	18 Duplex	8-32	9-32	6.00
Smitt	24231	16 "	9-32	11-32	7.00
Smitten	24232	14 "	12-32	27-64	8.00
Smittle	24233	12 "	•	16-32	14.00



Safety Wire.

Plain, without Tape or Braid.

Code Word.	List No.	Gauge B. & S.	Outside Diam. of Insulation.	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
Smock	24234	20	3-32	1000	2,25
Smockable	24235	18	4-32	1500	2.50
Smoke	24236	16	4-32	1000	2.75
Smokearch	24237	. 14	5-32	2000	3.75
Smokeball	24238	12	6-32	1500	4.50
Smokebox	24239	10	6-32	1000	5.50
Smokejack	24240	10	7-32	1500	6.25
Smokeless	24241	8	7-32	1000.	7.50
Smoker	24242	8	8-32	1500	8.00
Smokesail	24243	6	9-32	1500	11.25

Gauges from No. 20 to No. 4 Braided. Gauges above No. 4 Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam. Braided.	Insulation Resistance per Mile Megohms.	Price per 100 Feet.
Smaketree	24244	20	3-32	4-32	1000	2.50
Smakily	24245	18	4-32	5-32	1500	2.50
Smakiness	24246	16	4-32	5-32	1000	3.00
Smakny	24247	14	5 - 32	6-32	2000	3.85
Smalder	24248	12	6-32	7 - 32	1500	5.00
Smaldry	24249	10	6-32	7 - 32	1000	6.75
Smolt	24250	8	8-32	9 - 32	1500	9.00
Smooth	24251	6	9 - 32	10 - 32	1500	12.50
Smoother	24252	4	11-32	12 - 32	1000	16.50
Smoothing	24253	2	13-32	14 - 32	1000	25.00
Smoothly	24254	1	15 - 32	16 - 32	1200	35.00

Stranded Conductors.

Heavy Insulation, Taped and Braided.

		Gauge B & S.	Outside Diam. of Insulation.	Outside Diam. Taped and Braided,	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
Smoothness	24255	8	9-32	11-32	1200	10.00
Smooszando	24256	6	10 - 32	12-32	1200	14.50
Smöther	24257	6	11-32	13-32	1500	17.50
Smothiry	24258	4	12-32	14-32	1000	21.00
Smouch	24259	4	13-32	15-32	1500	25.00
Smudge	24260	2	15 - 32	17-32	1500	28.50
Smug	24261	1	. 16-32	18-32	1200	37.50
Smuggle,	24262	0	19-32	21-32	1500	48.00
Smugly	24263	00		22-32	1500	58.50
Smugness	24264	000		24-32	1500	72.50
Smuly	24265	0000		26 - 32	1500	90.00

Safety Lead Incased Wire.

For Underground Purposes.

Covered with Heavy Rubber Insulation. Taped and Lead Incased.

Code Word.	List No.	Sizes. B. & S. Gauge.		Price per Foot.
Smu	24266	OCHO	Stranded.	\$1.00
Smutch	24267	(900)	46	.90
Smyrniat	24268	()r)	44	.80
Snuck	24269	0	66	-70
Snacket	24270	1	"	.64
Snucat	24271	1	Solid.	.60
Snaffle	24272	2	Stranded,	.56
Snag	24273	2	Solid.	.54
Snagged	24274	. 4	Stranded.	-50
Sunggy	24275	4	Solid.	.36
Small	24276	15	Stranded,	.36
Snuke	24277	6	Solid,	.32
Snakeroot	24278	7	Stranded,	.30
Snakeweed	24279	7	Solid,	.26
Sunkewood	24280	8	Stranded.	-26
Snakish	24281	8	Solid.	-22
Snaky	24282	10	it	.18
Snap	24283	12	"	.12
Snuplock	24284	1.4	**	.07

Safety Flexible Cables.

For Switchboards, Dynamos and Lamps.

Composed of Fine Copper Wire, No. 25 B. & S. Gange, well Tinned Taped and Braided.

		Equal in Conductivity to B; & S. Gauge No.	Insulation Resistance per Mile, Megolius,	Price per 100 Feet.
Snapper	24285	14	1000	12.00
Snappish	24286	12	1000	13.00
Snappishly	24287	10	1000	13.50
Snappy	24288	9	1000	14.00
Suare	24289	8	1000	15.00
Suarl	24290	6	1000	16.50
Snarler	24291	4	1000	20.00
Snarg	24292	2	1000	30.00
Snatch	24293	1	1000	40.00
Snatcher	24294	0	1000	50.00
Snatchingly	24295	00	1000	60.00
Snath	24296	(KK)	1000	75.00
Sucad	24297	OOOO	1000	95.00

Safety White Core Wire.

Stranded Conductor.

Taped and Braided.

Code Word.	List No.	Gauge B. & S.	Outside Diam. of Insulation	Insulation Resistance per Mile Megohms	Price per 100 Feet
Socie	24380	0	21-32	1590	48.80
Socman	24381	00	22 - 32	1500	59.30
Soemanry	24382	000	24-32	1500	73.30
Socky	24379	0000	26-32	1500	90.80

Solid Conductor.

Gauges from No. 20 to No. 4 Braided. Gauges above No. 4 Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam. Braided.	Insulation Resistance per Mile Megohms.	Price per 100 Feet.
Socia	243685	20	3-32	4-32	1000	2.90
Socialness	24369	18	4-32	5-32	1500	2.90
Society	24370	16	4-32	5-32	1000	3.40
Societ	24371	14	5-32	6-32	2000	4.25
Sociaiun	24372	12	6-32	7-32	1500	5.40
Socinianism	24373	10	6-32	7-32	1000	7.15
Socialogy	24374	8	8-32	9-32	1500 .	9.40
Socialogic	24375	6	9-32	10-32	1500	13.30
Sock	24376	4	11-32	12-32	1000	17.30
Sockdolager	24377	2	13-32	14-32	1000	25.80
Sockless	24878	1	15-32	16-32	1200	35.80

Low Tension Simplex Cables.

Tape and Two Braids over Rubber.

Stranded Conductor.

				Weight	Outside	
Code Word.	List No.	Size.	Strands.		Diameter.	Price per 1,000 Feet.
Softner	24413	2,000,000 C.	M. 91	Reels. 45,000	2 6-32	\$3247.60
Suftness	24414	1,750,000 "		40,000	2 2-32	2859.80
Soggy	24415	1,500,000 - "	91	35,000	1 30-32	2474.50
Sail	24416	1,250,000 "	61	29,000	1 25-32	2072.20
Soiliness	24417	1,000,000 "	61	23,000	1 18-32	1665.00
Soilless	24418	950,000 "	61	22,000	1 17-32	1578.90
Soilure	24419	900,000 "	61	21,000	1 16-32	1514.50
Soily	24420	850,000 "	61	20,000	1 15-32	1430.60
Soirce	24421	800,000 "	61	19,000	1 13-32	1332.50
Sojourn	24422	750,000 "	61	18,000	1 12-32	1257.20
Sojourner	24423	700,000 "	61	17,000	1 11-32	1184.40
Sojourning	24424	650,000 "	61	16,000	1 10-32	1104.20
Sol	24425	600,000 "	61	15,000	1 9-32	1031.50
Solace	24426	550,000 "	61	14,000	1 8-32	965.50
Solucement	24427	500,000 "	61	12,500	1 6-32	873.60
Solacious	24428	450,000 "	37	11,500	1 4-32	776.00
Solanacions	24429	400,000 "	37	10,500	1 3-32	706.40
Solander	24430	350,000 "	37	9,000	1	609.60
Solanine	24431	300,000 "	37	8,000	31-32	540.90
Solano	24432	250,000 "	37	7,000	29-32	459.70

Simplex Lead=Covered Cables, Low Tension.

Stranded Conductor.

		*		Wall	Outside	Price per 1,000 Ft.
Code Word.	List No.		trands.	Lead.	Diameter,	
Socome	24383	1,000,000 C. M.	61	3-32	1 22-32	\$1958.10
Socatran	24384	900,000 "	61	3-32	1 20-32	1837.48
Socutrine	24385	800,000 "	61	3-32	1 18-32	1677.84
Socratic	24386	700,000 "	61	3-32	1 13-32	1400.04
Socratically	24387	600,000 "	61	3-32	1 11-32	1254.60
Socratism	24388	500,000 "	61	5-64	1 8-32	1078.76
Socratist	24389	400,000 "	37	5-64	1 4-32	864.36
Sod	24390	300,000 "	37	5-64	1 1-32	705.4 0
Soda	2439 i	250,000 "	37	5-64	30-32	587.50
		B. & S.				
		Gauge.			20.00	540.40
Sodulite	24392	0000	37	5-64	29-32	540.40
Sodality	24393	000	37	5-64	27-32	458.40
Sodawater	24394	00	19	5-64	25-32	381-86
Sodden	24395	0	19	5-64	24-32	342.88
Soddy	24396	1	19	1-16	20-32	245.44
Soder	24397	2	19	1-16	19-32	217.64
Sodium	24398	3	19	1-16	18-32	185.58
Sodomite	24399	4	19	1-16	17-32	163.50
Sodomitical	24400	6	19	1-16	16-32	138.16
		Solid Con	d40			
		Sond Con	uucto.	r.		
Sofa	24401	1		1-16	19-32	224.52
Sofett	24402	2		1-16	18-32	195.58
Sofi	24403	3		1-16	17-32	170.26
Sofism	24404	4		1-16	16-32	147.32
Soffiet	24405	6		1-16	15-32	121.82
Soft	24406	8		1-16	14-32	101.00
Soften	24407	10 (8-32)		3.64	12-32	67.26
Softener	24408	10 (7-32)		3-64	10-32	56.32
Softish	24409	12 (7-32)		3-64	10-32	53.62
Softling	24410	12 (6-32)		3-64	9-32	49.80
Softly	24411	14 (6-32)		3-64	9-32	48.28
Softman	24412	14 (5-32)		3-64	8-32	39.96
A):// C. 100 C. 10		(- 9-)		-		

Simplex Caoutchouc Wire.

Solid Conductor, Braided.

Code Word.	List No.	Size.	Diameter	Diameter	Price per
		B. & S. Gauge	. over Rubber.	over Braiding.	Foot.
Sneak	24298	1	14~32	17-32	.313
Sneaker	24299	2	13-32	16-32	.261
Sneaking	24300	3	12-32	15-32	.221
Sneakingness	24301	4	11-32	14-32	.174
Sneap	24302	5	10-32	12-32	.15
Sneck	24303	6	9-32	11-32	.121
Sneckband .	24304	7	17-64	21-64	.11
Sned	24305	8	8-32	10-32	.091
Sneer	24306	9	15-64	9-32	.08≸
Sneerer	24307	10	7-32	8-32	.07½
Sneerful	24308	12	6-32	7-32	.051
Sneeringly	24309	14	5-32	6-32	.034
Sneczc	24310	16	9-34	11-64	.033
Sneezeweed	24311	18	4-32	5-32	·03½

Stranded Conductor, Braided.

		Size B. & S.	Number	Diameter _ over	Diameter over	Price per
G	01010	Gauge.	Strands.	Rubber.	Braiding.	Foot.
Sneezewort	24312	0000	37	22 - 32	26-32	.76
Sneezewood	24313	000	37	20-32	24-32	-64
Snell	24314	00	19	18-32	22-32	.501
Snep	24315	0	19	17-32	21-32	.441
Snickup	24316	1	19	15-32	18-32	.341
Snicker	24317	2	19	14-32	17-32	•31 1
Sniff	24318	3	7	13-32	16-32	.25
Snift	24319	4	7	12-32	15-32	·21½
Snig	24320	5	7	11-32	14-32	·17+
Snigger	24321	6	7	10-32	12-32	.144
Sniggle	24322	7	7	19-64	23-64	·12f
Snip	24323	8	7	9-32	11-32	.111
Snipe	24324	9	7	17-64	10-32	-11
Snipebill	24325	10	7	8-32	9-32	.093
Snipe fish	24326	12	7	7-32	8-32	.07₹
Snipper	24327	14	7	6-32	7-32	.061
Snipsnap	24328	16	7	5-32	6-32	043

Climax Wire.

Solid Conductors, Braided.

Code Word.	List No.	Size B. &. S. Gauge.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
Snithy	24329	1	14-32	16-32	\$.291
Snivel	24330	2	13-32	15-32	.24
Sniveler	24331	3	12-32	14-32	.201
Snicely	24332	4	11-32	25-64	-163
Snob	24333	5	10-32	11-32	.132
Snobbery	24334	6	9-32	10-32	.104
Snobbish	24335	8	8-32	9-32	.08
Snobbishly	24336	10	7-32	8-32	.05 8
Snobbishness	24337	12	6-32	7-32	.04≩
Snobbism	24338	14	5-32	6-32	.031

Stranded Conductors, Braided.

		B. & S. Gauge,	No. of Strands,	Diam over Rubber.	Diam, over Braiding.	
Soaking	24339	0000	37	22 - 32	25-32	.73
Soaky	24340	000	37	20-32	23-32	-60%
Soal	24341	00	19	18-32	21-32	.48
Soap	24342	0	19	17-32	20-32	.41
Soapsuds	24343	1	19	15-32	17-32	.318
Soupwort	24344	2	19	14-32	16-32	-263
Soupy	24345	3	7	13-32	15-32	.213
Soar	24346	4	7	12 - 32	27-64	.18
Sob	24347	5	7	11-32	12-32	.15}
Sober	24348	6	7	10-32	11-32	.12}
Sobcrize	24349	8	7	9-32	10-32	.09
Soberty	24350	10	7	8-32	9 - 32	.07‡

Simplex Caoutchouc Mining Wire.

Solid Conductor.

		B. & S. Gauge.	Diam. over Rubber.	Co	vering Rubb	er.	
Soberness	24351	1	17-32	Tape ar	ad 3 1	Braids.	.443
Soboles	24352	2	16-32	"	3	44	.39!
Soboliferous	24353	3	15-32	.66	2	44	.33
Sobriety	24354	4	14-32	44	2	64	-28§
Sobriquet	24355	5	12-32	3 Braid	s.		.21%
Sec	24356	6	11-32	3 "			.183
Socage	24357	8	9-32	3 "			.133
Socager	24358	10	8-32	3 "			.103
Sociability	24359	12	7-32	3 "			.08}
Sociable	24360	14	6-32	3 "			-063

Stranded Conductor.

		B. & S. Gauge	No. of Strands.	Diam over Rubber.	Covering over Rubber.			
Sociableness	24361	OCCO	37	26 - 32	Tape a	ind 3	Braids.	1.03
Sociably	24362	000	37	24 32	**	3	**	.88
Social	24363	00	19	22 32	44	3	44	.73
Socialism	24364	0	19	20/32	66	3	44	-621
Socialist	24365	1	19	18 32	66	3	44	.52 ¹
Socialistic	24366	2	19	17 32	44	3	64	-448
Socialize	24367	3	7	16 32	£4	2	"	.36₽
Socially	24368	4	7	15 - 32	**	2	"	.32‡

Magnet Wire.

Single Cotton Covered.



Nos. 3879 to 3901.



Nos. 1700. to 1720.

Code Word.	List No.	B. & S. Gauge Size.			List Price.
Alluminor	3879	0000 P	er por	und	\$0.44
Allured	3880	000	"		44
Allusive	3881	00	4+		44
Allusively	3882	0			44
Almandine	3883	1	**		
Almightily	3884	2	**		43
Almighty	3885	3	**		43
Almhouse	3886	4	**		43
Alos	3887	5	**	*****	44
Aloud	3888	6	**		44
Alph	3889	7	"		44
Alphabet	3890	8	**	,	44
Alpin	3891	9	4.6		46
Already	3892	10	4.6		46
Alt	3893	11	44		48
Altar	3894	12	**		48
Alterable	3895	13	44		54
Alterage	3896	14	**		54
Altered	3897	15	**		59
Alternate	3898	16			56
Alterative	3899	17	4.6		59
Alternatively	3900	18	"		59
Alternity	3901	19	4+		,60
Jingling	1700	20	**		68
Joan	1701	21	**		
Jockey	1702	22	6.6		76
Jockeying	1703	23	3.6		83
Jean	1704	24	44		
Jears	1705	25	**		1.00
Jeer	1706	26	**		1.10
Jeered	1707	27	**		1.25
Jeerer	1703	28	**		1.35
Jering	1709	29	**	***************************************	1.50
Jungly	1710	30	4.6		1.65
Junior	1711	31	44		1.80
Jockeyism	1712	33	**		1.95
John	1713	33	**		2.40
Joinder	1714	34	**		2.85
Jollify	1715	35	**		3.25
Jolliment.	1716	36	**		4.37
Jollity	1717	37	**		6.75
Jonas	1718	38	: "		9.00
Jonathan	1719	39	44		11.00
Joseph	1720	40	**		13.00

Magnet Wire-(Continued).

Double Cotton Covered



Nos. 3902 to 3924.



Nos. 1721 to 1741.

		24 0			
Code Word.	List No.	B. & S. Gauge Size.			List Price.
Although	3902		er nou	nd	\$0.45
Altitude	3903	000	11		
Alum	3904	00	**		
Alicays	3905	0	66		45
Amain	3906	1	**		431/2
Ambrose	3907	2	66		
Ambrosia	3908	3	**		
Ambrosial	3909₺	4	44		431/2
Ambrosian	3910	5	**		45
Ambry	3911	6	**		45
Ambulant	3912	7	**	************************	47
Ambulate	3913	8	**		47
Ambulation	3914	9	**		481/2
Ambulative	3915	10	**		481/2
Ambulatory	3916	11	**		52
Ambuscade	3917	12	4.4		52
Ambuscaded	3918	13	64		58
Ambushed	3919	14	44		58
Amelia	3920	15	44		60
Amenable	3921	16	**		60
Amend	3922	17	**		651/2
Amended	3923	18	**		651/2
Amendment	3924	19	55		711/2
Joyful	1721	20	4.6		74
Joyfully	1722	21	6.6		88
Joyfulness	1723	22	6.6		95
Joyous	1724	23	6.6		1.05
Joyously	1725	24	64		1.14
Joyousness	1726 -	25	**		
Jubilant	1727	26	"		1.38
Jubilate	1728	27	**	***********************	
Jubilation	1729	28	**		
Judah	1730	20	**		1.89
Judicial	1731	30	***		
Judicious	1732	31	100		2.23
Josephine	1733	33	- 11		
Joshux	1734	33			
Josiah	1735	34			
Jostle	1736	35	**	**********************	
Jostled	1737	36			
Jore	1738	37		***************************************	
Jocial	1739	38	"		0100
Jorialty	1740	39			12.00
Joy	1741	40			15.00

Magnet Wire—(Continued).

Single Silk Covered.



			0	ingic Di	in dovered.	
Code Word.	List No.					List Price.
Jeopardy	1650	No	16	per pou	nd	\$1.12
Jerboa	1651	66	17.	- 11		
Jeremiad	1652	44	18,	Es		1.15
Jeremiah	1653	4.4	19,	11		
Jerker	1654	11	20,	4.4		1.18
Jerkin	1655	61	21,	4.6		1.20
Jersey	1656	4.4	22,	40		1.30
Jerusha	1657	11	23.	41.		1.42
Jervin	1658	66	24.	11		1.56
Jested	1659	11	25,	4.1		1.81
Jester	1660	66	26.	1.6		. 2.10
Jestful	1661		27,	"		. 2.25
Jesting	1662	61	28,	64		2.38
Jesuit	1663	4.8	29.	41		2.75
Jehovah	1664		30,	4.0		2.95
Jehovist	1665	1,1	31.	**		3.25
Jelly	1666	44	32,			3.45
Jemima	1667	61	33,	**		3.90
Jennet	1668	44"	34,	4.5	.,	4.10
Jenneting	1669	66	35,	4.6		5.85
Jentling	1670	**	36.	6.6		7.00
Jeopard	1671	61	37.	4.6		11.00
Jeoparder	1672	111	38,	4.6		13.00
Jeoparding	1673	+6	39.	44		15.00
Jeopardize	1674	**	40,	4.4		20.00

Double Silk Covered.

7		37-	10			1.53
Jesuitic .	1675			per pound		1.53
Jetsam	1676	**	17			
Jettison	1677	**	18	**	****	 1.57
Jetteau	1678	**	19	**		 1.57
Jetty	1679	66	20,	**		 1.61
Jewel	1680	46	21.	4.4		 1.63
Jeweled	1681	4.6	22,	**		 1.76
Jeweler	1682	11	23,	**		 1.93
Jeweling	1683	4.4	24,	44		 2.13
Jewelry	1684	4.6	25,	44		 2.48
Jewess.	1685	66	26,	44		 2.88
Jewish	1686	6.6	27,	44		 3.07
Jib	1687	6.6	28,	4.6		 3.23
Jibboom	1688	- (1	29,	**		 3.76
Jibdoor.	1689	11	30,	44		 4.02
Jibe	1690	11	31,	44		 4.40
Jibing	1691	**	32,	4+		 4.53
Jigger	1692	**	33,	44		 5.10
Jiggish	1693	14	34.	U.		 5.30
Jiggling	1694	16	35,	4.1		 7.78
Jill	1695	4.6	36,	4.4		 8.88
Jilted	1696	**	37.	**		 13.63
Jilling	1697	44	38,	44		 14.50
Jingte	1698	**	39,			 18.00
Jingled	1699	**	40	**		 23.00

German Silver Resistance Wire.

WOUND WITH COTTON OR SILK-COVERING FIRMLY ADHERING TO THE WIRE-AMERICAN OR BROWN & SHARPE GAUGE.

Cotton Covered.



ist Price Double. \$1.70
1.70 1.70 1.70
. 1.70 . 1.70 . 1.74
. 1.70
. 1.74
. 1.75
. 1.83
1.98
2.09
. 2.26
2.48
2.73
2.98
3.13
3.38
3.66
4.21
4.64
5.44
. 5.69
8.88
13.75
27.00
30.00
33.00



				Silk	Covered.				
No.	16, pe	r pound	1	1.85	No.	16,	per pour	nd	2.38
44	17,	**		1.85	**	17,	**		2.38
**	18.	4.4		1.85	**	18,	4.4		2.38
60	19,	44		1.85	**	19,	4.6		2.38
44	20,	4.6		1.88	**	20,	44		2.43
6.6	21,	4.4		1.93	**	21,	4.6		2.48
4.6	22,	4.4		2.06	**	22,	14		2.64
44	23.	**		2.21	44	23,	66		2.87
**	24,	6.6		2.37	**	24,	**		3.08
	25.	6.6		2.65	10	25,	4.6		3.48
**	26.	64		3.02	**	26,	6.6		3.93
44	27.	44		3.23	4.6	27,	4.4		4.20
663	28,	64		3.42	**	28,	**		4.43
44	29.	4.4		3.85	**	29,	**		5.00
44	30,	4.6		4.14	**	30,	4.4		5.33
4.6	31,	**		4.52	4.6	31,	4.6		5.81
4.	32.	6.6		4.94	**	32,	**		6.23
4.6	33.	**		5.46	**	33,	1.6		6.89
**	34.	**		5.84	4.6	34,	4.6		7.29
**	35.	4.4		7.52	.00	35,	4.6		9.45
44	36.	1.6		10.00	**	36,	* 6		11.75
**	37.	1.6			**	37,	**		22.00
**	38.	**		28.00	11	38,	4.6		33.00
**	39.	44	3	30.00	14	39,	"	4	0.00
**	40.	**	4			40.	**	5	0.00

Weatherproof Wire-Triple Braid.





Code Word.	List No.	Size, B. & S. Gauge.	Circular Mills.	Weight per 1,000 ft.	Weight per Mile.	Price per lb.
Notify	6761		500000.	1867	9858	
Notion	6762		450000.	1680	8870	
Nimbleness	6763		400000.	1493	7883	
Nimb	6764		350000.	1307	6901	
Nimbus	6765		300000.	1120	5914	
Ninefold	6766		250000.	993	4926	
Ninepins	6768	0000	211600.	739	3902	,
Ninny	6769	000	167805.	598	3157	
Nip	6770	00	133079.2	485	2561	
Nippers	6771	0	105584.0	395	2086	
Nitid	6772	1	83694.0	313	1653	
Niter	6773	2	66373.0	251	1325	
Nitrate	6774	3	52633.4	205	1082	
Nitric	6775	4	41742.5	168	887	
Nitrogen	6776	5	33102.3	139	734	
Nitrous	6777	6	26250.5	113	597	
Nobility	6778	8	16509.0	74	391	
Noble	6779	10	10381.0	51	269	
Nobleman	6780	12	6529.9	37	170	
Nobleness	6781	14	4107.	23	118	
Noblesse	6782	16	2583.	16	81	
Nobly	6783	18	1624.	12	58	

Weatherproof Wire-Triple Braid.

SPECIAL PRICES QUOTED ON APPLICATION.

Hard Drawn Copper.

Haunted	8749	No.	8,	B. & S.,	per mile	٠.						 			 	
Haunting	8750	**	9,	4.6	66							 			 	
Havoc	8751	4-	10,	4.4	**										 	
Hawk	8752	6:	12,	61	4.4							 				
Hawking	8753	66	14,	**	**							 . ,				

Triple Braid Weatherproof Iron Wire.

SPECIAL PRICES QUOTED ON APPLICATION.

Hazard	9073	No.	8,	В.	W.	G.,	per	mil	e.					٠.			 	
Hazarded	9074	4.6	9,		6.6			4									 	
Hazarding	9075	6.6	10,		6.6			1.6					. ,				 	
Hazardous	9076	6.6	11,		41			4		 							 	
Helen	9077	1.6	12,														 	
Henry	9078	64	14.		4.6			6										

Underwriters' Wire.

SPECIAL PRICES QUOTED ON APPLICATION.



		Nos.	APPROXIMA' INSULA	TE WEIGHT	Price
Code Word.	List No.	B. & S. Gauge.	Per 1,000 ft	Per Mile.	per lb.
Jabber	1600	0000	670	3538	
Jabberer	1601	000	555	2930	
Jabbering	1602	00	440	2323	
Jacamar	1603	0	356	1880	
Jackal	1604	1	284	1500	
Jackanapes	1605	2	235	1240	
Jackass	1606	3	190	1003	
Jackblock	1607	4	158	834	
Jackdan	1608	5	127	670	
Jacob	1609	6	102	538	
Jucobin	1610	7	85	449	
Jacobine	1611	8	69	364	
Jucobinize	1813 %	10	47	252	
Jacobus	1615	12	31	163	
Jade	1617	14	20	105	
Jading	1619	16	15	79	
Jugged	1621	18			

Fire and Weatherproof Wire.

SPECIAL PRICES QUOTED ON APPLICATION.

Triple Braid.



		Triple	Braid.		
Japanner	1624	0000	753	3977	
Jarble	1625	000	594	3136	
Jargle	1626	00	500	2640	
Jargon	1627	0	375	1980	
Jasmin	1628	1	304	1605	
Jasper	1629	2	250	1320	
Jaspoid	1630	3	210	1108	
Jaundice	1631	4	169	892	
Jaxel	1632	5	135	712	
Jacelin	1633	G	110	580	
Jawbone	1634	7	93	491	
Jay .	1635	8	80	422	
Jaguar	1637	10	55	290	
Jambee	1639	12	38	200	
Jane	1641	14	26	137	
Jangle	1643	16	20	106	
Jangling	1645	18			

.32

.42

Canterbury 3968

3969

Cantering

Flexible Incandescent Lamp Cord.



Taped. Silk Covered.

		Slik Co	vereu.			
Code Word.	List No.	Gauge.		Cond	luctor.	Price per Yard
Cannibal	3956	No. 22, B. 3	& S.	10x30	Wires.	\$.12
Cannon	3957			14x30	4.4	.13
Cannondale		" 18,		16x30	+ 4	.16
Canny	3959	. 16.	11	25x30	. 6	.19
Canoe	3960	14,	0.	40x30	4.4	.29
Canonical	3961	" 12,	4.4	60x30	**	.40
Canonize	3962	" 10,	4.4	.118x30	**	.50
		Cotton or V	Vorsted.			
		Gauge.		Cond	uctor.	
Canopy	3963	No. 22, B.	& S.	10x30	Wires	.0
Cantata	3964	" 20,		14x30	**	.0
Cuntation	3965	·* 18,	1.6	16x30	**	.0
Canteen	3966	44 -16,	11	25x30	61	.1
Canter	3967	" 14.	14	40x30	4.4	.2

" 12,

" 10,

Unless otherwise specified, we furnish on orders green and gold. Galvanized Steel Wire Strand.

118x30



		7 Wires.	Diam.	Weight per 100 Feet.	Breaking Strength.	Per 100 ft.
Aboriginal	3052	8	1/2 in.	52 lbs.	8,320 lbs.	2.40
Aborigines	3053	9	15 "	42 "	6,720 "	2.05
Aborsement	3054	10	7 11	36 "	6,720 "	1.80
Coupe	3055	11	3/8 "	29 "	4,640 "	1.50
Coupling	3056	12	5 "	21 "	3,360 "	1.15
Coupon	3057	13	32 "	16 "	2,500 **	.90
Abound	3058	14	17 **	12 "	1,920 **	.70
Abounding	3059	15	1/4 "	10	1,600 **	.60
Above	3060	16	7 11	8 . "	1,280 "	.55
Abrade	3061	17	3 11	6,6	960 **	.42
Abraham	3092	18	11	4,3, "	688	-38
Abrasion	3063	19	9 11	3,3 0	528 **	.35
Abreast	3093	20	1/8 "	2,4 "	384 "	.30
Abridge	3065	21	52 44	2 "	320 "	.28



Galvanized Arc Lamp Cord. With Hemp Center.



Sommiferous	25075	No.		16	inch							-					U
Knock.	19760	No.	26,	1/4	incl	1.	 										.0
Knocked	19761																
Knocker	19762																
Knocking	19763	**	28,	1/8	**												. (
Knoll	19764	**	29,	16	**			 		i			. ,				.1



Samson Cordage.

											Per 1b
Larcerating	2695	Cotton	33	inch	liamete	er	 	 		 	.75
Lordliness	2696	**	3/8	4.6	**						.75
Lordly	2697	Linen	52	**			 			 	1.20
Lordship	2698	**	3/8	**	4.6				٠,		1.20

Electric	Light	Elevator	Cable.	
				P

Clarify 2097 Flexible, two conductors, No. 16......

Flexible Incandescent Lamp Cord.

Vulcanite.

		s	ilk Cov	ered.			
Code Word.	List No.		Gauge.		Cond	actor.	List Price. Per Yard.
Solitude	25025	No.	22, B.	k S.	10 x 30	Wires.	\$0.12
Sollar	25026	44	20,	"	14 x 30	44	.12
Solv	25027	66	18.	16	16 x 30	"	.16
Solstice	25028	**	16,	"	25 x 30	**	.19
Solstital	25029	66	14.	4	40 x 30	44	.29
Solubility	25030	44			60 x 30	44	.40
Soluble	25031	44		"	118 x 30	u	.50
		Cott	on or V	Vorst	ed.		
Solubleness	2503 2	No.	22, B.	& S.	10 x 30	Wires.	.07
Solus	25033	44	20,	44	14 x 30	"	.07
Solute	25034	"	18,	"	16 x 30	44	.09
Solution	25035	44	16.	4	25 x 30	"	.12
Solutive	25036	44		"	40 x 30	46	.21
Solvability	25037	46		"	60 x 30	46	.32
Solvable	25038	44		44	118 x 30		.42

Unless otherwise specified, we furnish on orders green and gold.

Moulded.

Silk Covered.

Solvableness	25039	No.	22, I	3. & S.	10 x 30 Wires.	.12
Solve	25040	**	20,	44	14 x 30 "	.12
Solvency	25041	"	18,	"	16 x 30 "	.16
Solvent	25042	"	16,	"	25 x 30 "	-19
Solver	25043	44.	14,	u	40 x 30 · "	.29
Somative	25044	"	12.	"	60 x 30 "	.40
Somutical	25045	i	10,	**	118 x 30 "	.50

Cotton or Worsted.

Somatics	25046	No.	22, B.	& S.	10 x 30 Wires.	.07
Somatist .	25047	44	20,	44	14 x 30 "	.07
Somatalogy	25048	"	18,	4	16 x 30 "	.09
Somatotomy	25049	44	16,	46	25 x 30 "	.12
Somber .	25050	"	14,	"	40 x 30 "	.21
Somberly	25051	44	12,	44	60 x 30 "	.32
Somberness.	25052	44	10,	**	118 x 30 "	.42

Unless otherwise specified, we furnish on orders green and gold.

Special Packing House Cord.

For use in all places where cord is exposed to action of steam and brine. $\label{eq:cord_steam}$

				Pe	r Foot
Acruse	25605	No. 16	В. &	8	.12
Acruze	25606	No. 18	••		.09
Aereage	25607	·No. 20			-08

Cotton Sleeving.

												100	Yards.
Sombrero	25053	No	. 1,	for	No.	16	В.	& 8	Bare	Copper	Wire		.90
Sombrous	25054	4	2,		44	11		"		**			.90
Sombrously	25055	44	3,		"	5		66		44			1.20
Somedeal	25056	"	4,		44	4		44		**		<i>.</i>	1.50
Somewhat	25057	66	5,		66	3		44		44			2.40
Sommiel	25058	**	6,		**	1		61		46			3.00
Somnambula	25059	66	7,		**	0		**		**			4.00

Parnell Parsons Pasco

Passaic

Braided Office Wire. Approximate Weight.



1	William Annual Spills	
		1

			to lb.	37 10		Ft. to 1b.	
	" 6 " 8		8 12 20 40 45	" 17. " 18. " 19.		120 135 145	
			60	40.			
Code Word.	List No.					-	t Price.
Pacific	15800	No. 12, pe	r pour	d			\$.40 .42
Paducah Paige	15801 15802	" 14, " 16,	44				.44
Paisley	15804	. 18,	4.6				.46
Pojaro	15805	20,	**				.48
	We	atherp	roof	Offic	e Wir	e.	
Palistine	15810	No. 14, pe	r pour	d			.46
Palisade	15811						.48
Palmer	15812	18,					.50 .52
Palmyra	15813	· 20,					.02
		Off	ice (Cables	5.		
& S. gauge together, a Paraffine fi Paint finis	ind braide nish, per h, per pot	ed in any pound	color o	r combi	nation of	colors.	.50 .50
		Annu	ncia	tor W	lire.		
		De	ouble=	Wound.			
		Appr	oxima	te Weigh	ıt.		
	** 14.	F	45 67 103	" 19		200	
Palo	15820	No. 14, p	er pou	nd			.36
Pana Panana	15821	" 16, " 18.	44				.38
Panora	15823	a 19,	**				.40
Paola	15824	" 20, " 22	44				.44
Paradise	15825	" 22,					.46
Do	uble C	onduc	tor .	Annu	nciato	r Wire	
Paragon Parham	15830 15831	No. 16, 1	er pou				.42
		Gas 1	Fixtı	ire W	ire.		
	F	r Lightin	ng Gas	by Ele	ctricity		
		White	, Yello	w or Bro	own.		
Paris	15835	No. 22.	Triple	cotton	covered.	per pound	.90
Parkdale .	15836	" 24.	* 6	4.6	4.4	**	1.00
Parker Parma	15837 15838	" 24. " 26.	Five Triple	44	**	44	1.50

 15840
 No. 22.
 Triplecovered, silk outside, per lb.

 15841
 " 24.
 " " " " " " "

 15842
 " 24.
 Five " " " " "

 15843
 " 26.
 Triple " " " "

In ordering specify color wanted,

2.00 2.50 3.00 2.75

Lead Covered Wire.

		Code word.	List No.		Sir	ngle C	onducto	or.		
		Patters	15845	No	14	P A S	0.11100	non for	t	st Price
		Patoka	15846		16.	D. CC 5.	gauge,	per roc		.07
		Paton	15847	++	18.	1.6		16		.04 %
		1 111076	13047		10.					.04%
•					Do	uble C	onducto	or.		
8	8	Plattville	15848	No.	14,	B. & S	gauge,	per foo	ot	.14
		Pauline	15849	4.4	16,	**		**		.11
		Pavillion	15850	1.6	18,	11,	**	**		.09
					Th	ree Co	nducto	r.		
(00)	66	Pawnee	15851	No.	14.	R. & S	gange	ner for	ot,	21
A	Car con and a second	Pawtucket	15852		16.	"	er Bande,	11		16%
		Paxton	15853		18,	4.6	**	**		.13%
				1	Pla	tinu	m W	ire.		
		Pagne	15860	No	19	nor in	a la			1.00
		Payson	15861	140.	14.	per inc				.75
		Peubody	15862	**	16,	**				.60
		Pike	15863	11	18,	4.1				.4
		Pilot	15864		20,	**				.3
		Pinkard	15865	**	22,	44				.2
		Pine	15866	61	24,	41				.1.
		Pioneer	15867	**						.8
		Piqua	15868	11	28,	per roc				.7
		Pittsfield	15869		30.	**				.5
		Plainfield	15870	11	32.					.3
		Plainview	15871	11	34.	***				.2
		Plano	15872	11		+4				.2
			Approx	imat	e we	ight of	platinu	ım wire	e per foot.	
		No. 12							310.7	grains
		" 14							195.4	44
		" 16							122.8	64
		" 18							77.3	**
		50							48.6	**
		ii 22							30.6	**
		" 24							19.2	**
		" 26							12.1	.1
		" 28							7.60	•
		" 30							4.79	6.6
		" 32							3.01	
		34							1.89	**

Pliable Cord.

Bare Tinsel Cord.

(20)111111111111111111111111111111111111	Code Word.	List No.	I	er Yard.
	Plover Plymouth	15875 15876	Gold, smalı	\$.06 .08
			Covered Tinsel Cord.	
			Single Conductor.	
	Pocahontas Polk Pomeroy Pomona	15878 15879	Silk covered, gold, No. 15875	.10 .08 .10
			Double Conductor.	
			For Pear-shaped Push.	
	Ponquet Ponca	15881 15882	Silk covered, No. 15875	.15
			For Floor Push.	
	Pontiac Poplar	15883 15884	Silk covered, No. 15876	.18
			For Loops, Extra Heavy.	
	Portage Posey		Silk covered	
			Special.	
	Potosi	15887	Several strands of linen thread covered with bare tinsel wire; second covering of spiral iron wire covered with linen	
		Cop	oper Conducting Cords.	
			Single Conductor.	
- Constitution of the	Potsdam Powell	15890 15891	Composed of 25 wires No. 32, equal to No. 18 B. & S. gauge. Silk covered. Worsted "	.12
			Composed of 40 wires No. 31, equal to No. 16 B. & S. gauge.	
with the special content of the second	Pratt Preble	15892 15893	Silk covered	.12
	Prentice Prescott	15895 15896	Silk covered	.18
	Pritchards Prospect	15894 15897	Worsted "	.21
			Double Conductor.	
	Provo Pueblo	15898 15899	Each conductor same capacity as No. 14. Silk covered	.45

APPENDIX.

Richmond Plug Cut=Out.

Panel Board.

Patented Dec. 21, 1897.

We illustrate a Panel Board having the branch circuits protected by Fuse Plugs.

These Boards are especially designed for Cut-Out Cabinets and can be made with any number of circuits, for use on the 2-wire or 3-wire systems.

The sockets for the plugs are formed in the slate base and the plugs screw into the bus bars in the back.

The Fuse Plugs are made of porcelain, in one piece, and are intended to be re-fused. New Fuses can be put in without the use of solder.

The Fuse, being entirely enclosed in the socket, cannot blow out through the front when melted.

Code Word.	List No.											Ĺ	Price	0.
Acred	25608	4	Circuit,	withou	t Switch	es.								0
Acredate	25609	6	-61	**	44								10.0	0
Acrid	25610	8	44	**	4.0								12.5	0
Aeridity.	25611	10	4,-		14								14.0	0
Acridness	25612	12	"	**	+4								15.5	0
Acrim	25613	4	44	with !	Switches								12.4	0
Acrimini	25614	6	66.	44									16.5	0
Aerimoniou	× 25615	8	35	46	16								21.0	0
Acremony	25616	10	44	**	14								23.5	0
Acrisy	25617	12	11,	**	44								27.0	0

Prices on other sizes quoted on application.



No. 25518.

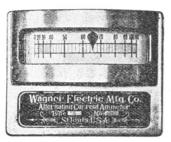
Fuse Plugs.

For use with Richmond Panel Boards.

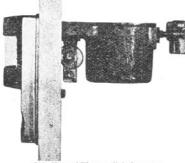
Acrita	25618	3	Ampere	capacity	 .15
Acritan	25619			**	 .15
Acritical	25620	9	**	**	15

Fuses.

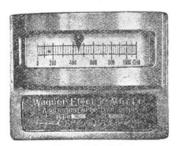
Acrity	25621	3	Ampere	capacity	·····	.05
Acrobat	25622	6	**	64		.05
Acrobatic	25623	.9	44	+4		05



Front View of Wagner Co.'s Ammeter.



Side View of Wagner Co,'s Ammeter.



The Wagner Co.'s, Wattmeter.

Wagner Electric Mfg. Co.'s Dead-Beat Illuminated-Dial Switchboard Instruments.

This line of instruments embodies many novel features. The instrument cases extend through the board, and the scales are illuminated by two 10 candle power lamps which stand sufficiently far back to also illuminate the rear of the switchboard. The movements are floated in a light colorless oil for the purpose of securing perfectly dead-beat action The cases are highly japanned in black, while the front covers are of polished brass. The instruments are extremely sensitive, yet absolutely devoid of continuous oscillations which make it difficult to get an accurate reading on most alternating current instruments. The line includes ammeters, voltmeters and wattmeters for alternating current, and these will shortly be followed by a corresponding line for direct currents. Ammeters up to 100 amperes capacity take the entire current, above that amount a series transformer is provided. Prices below include this series transformer. Voltmeters are wound for the voltage indicated. Wattmeter pressure coils are wound for 100 volts. Series transformers are provided for series coils of all wattmeters when the series current is over five amperes.

Ammeters. Including Series Transformer.

Code Word.	List No.						Li	st Price
Acrochord	25624	Scale, 0	to	10	ampere	es		\$45.00
Aerochordus	25625	0	to	15	**			45.00
Acrogan.	25626	0	to	25	44			45.00
Acroleline	25627	0	to	50	**			45.00
Aeropolis	25628	0	to	75	**			45.00
Acrospire	25629	()	to	100	40			55.00
Acrospired	25630	0	to	150	63			55.00
Across	25631	.0	to	200	**			60.00
Acroter	25632	0	to	250	49			60.00
Acroterial	25633	0	to	300	41			65.00
Acrotic	25634	0	to	400	44			70.00
Art	25635	0	to	500	34			75.00
Action	25636	0	to	600	41			75.00
Actinia	25637	0	to	700	44			75.00
Actinie	25638	0	to	800	44			75.00
Actiniform	25639	0	to	900	44			75.00
Actinoid	25640	0	to	1000	16			80.00
Actinolite	25641	0	to	1200	44			80.00
Actinolitic	25642	0	to	1500	4.0			85.00
Action	25643	0	to	2000	+1	9		90.00
		Ve	lti	neter	s.			

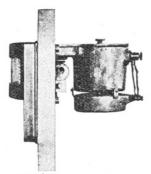
0 to 150 "

0 to 120 " 55.00

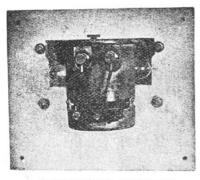
..... 60.00

Actionable 25644 Scale, 0 to 60 volts

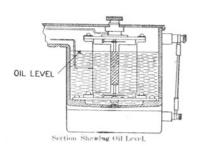
Actionably 25645 Actionary 25646



Side View of Wagner Co.'s Voltmeter.



Rear View of Wagner Co.'s Voltmeter,



Wagner Electric Mfg. Co.'s Instruments. -(Continued.)

Wattmeters.

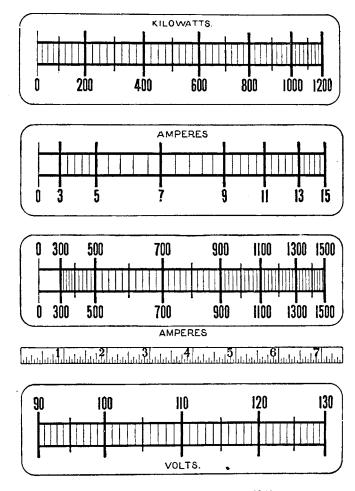
Code Word	List No				List Price
Actionist	25647	Scale, 0 to	100	watts	\$\$65.00
Actionsermo	25648	0 to	200	**	65.00
Artitation	25649	6 to	300	4.0	65.00
Activate	25650	0 to	400	**	65.00
Active	25651	0 to	500	4.	65.00
Artively	25652	0 to	750	**	65.00
Activeness	25653	0 to	1000	in	65.00
Activity	25654	0 to	2	ķilow	atts 65.00
Actless	25655	0 to	3	α	70.00
Actor	25656	0 to	5	41	70.00
Actual	25657	0 to	10	**	
Actuality	25658	0 to	25	**	75.00
Actualizator	25659	0 to	50	**	95.00
Actualize	25660	0 to	75	44	95.00
Actually	25661	0 to	100	16	100.00
Actuainess	25662	0 to	200	16	110.00
Actuation	25663	0 to	300		110.00
Actuator	25664	0 to	500	**	120.00
Actuose	25665	0 to	750	16	125.00
Actuoxity	25666	0 to	1000	4.5	130.00
Acture	25667	0 to	1200	**	135.00
Acuition	25668	0 to	1500	64	140.00
Acutitator	25669	C to	2000	16	150.00
11	20003	0 10	2010		

Pressure Reducing Transformers.

Where pressure reducing transformers for Wagner Co's, instruments are desired, these will be furnished at following prices:

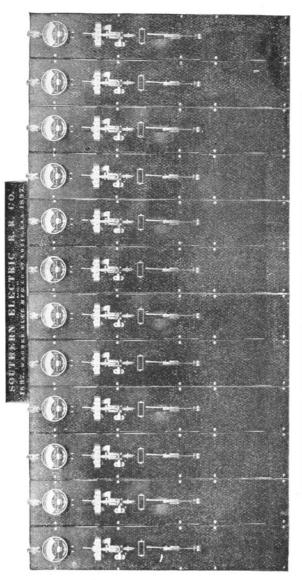
Acuteness	25670	1000	to	100	volts\$20.00
Adage	25671	2000	to	100	" 30.00
Adapter	25672	3000	to	100	" 30.00
Adaptice	25673	5000	to	100	" 42.00

Damping oil, lamps and template for mounting are furnished with each instrument. The lamps are 75 volts, operating two in series on 110 volts.



FAC-SIMILE SCALES OF WAGNER CO.'S

DEAD-BEAT ILLUMINATED-DIAL INSTRUMENTS.



WAGNER CO.'S STANDARD STREET RAILWAY FEEDER BOARD.

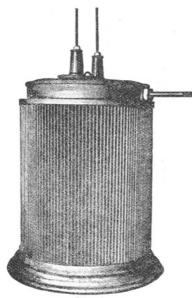


Figure 1,



Figure 2.

Wagner Electric Mfg. Co.'s Transformers for Power Transmission

Transformers for power transmission lines, are of four different forms, namely:

First. Self-cooling dry transformers, in which the heat losses are dissipated by the natural circulation of the surrounding atmosphere around and through the coils. This form is to be recommended only in small substation equip ments.

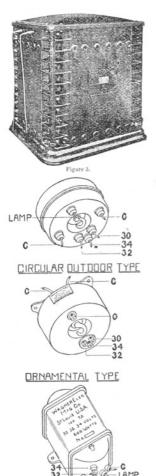
Second. Self-cooling oil filled transformers, in which the oil serves the functions of insulating and cooling medium, and also drives out all air from the windings. This form is most admirable, and is to be recommended over the selfcooling dry type.

Third. Air blast dry transformers, in which the losses are dissipated by means of a cooling blast of air, which is derived from auxiliary ventilating fan outfit. This form is frequently made use of in large installations,

Fourth. Water cooled, oil filled transformers, in which the self-cooling property of the transformer by reason of being oil filled is supplemented on heavy loads by a water cooling device.

Figure 1 illustrats the latest form of the Wagner selfcooling oil filled type. The case is built of corrugated sheet. The low voltage leads are brought out at the side, while the high pressure ends come out through the cover.

Figure 2 illustrates the water cooled, oil filled type. In small installations, where the air circulation is good, the water device is not required. But where many transformers are crowded into a small substation, the water coil is a most effective and desirable adjunct.



RECTANGULAR DUTDOOR TYPE

Transformers for Power Transmission.

-(Continued.)

Figure 3 illustrates the water jacketed type, in which the tase is completely channeled by water passages. With this, as with the endless coil type of water cooling, (Figure 2) a low pressure head is used. Ten to fifteen pounds pressure is amply sufficient for all requirements.

High tension transformers for any voltage up to 50,000, and for any capacity up to 1000 K. W. will be built to order.

Prices and information in detail given on application.

Wagner Electric Mfg. Co.'s 600 Watt Arc Light Transformers.

Circular Out Door Type.

This type has a hook for suspension of the transformer on the upper side, and a corresponding hook for suspension of the lamp on the lower side, the latter appearing in the cut. The ratio of transformation is 100 volts to 30, 32 or 34 volts. The line is connected to the terminals marked by the letters C.C. Cast on the box. One lamp circuit wire is connected to terminal marked "lamp," and the other to either of those marked 30, 32 and 34 as selected. This type is weatherproof. The case is of cast iron, and is fluished in black japan.

Ornamental Type.

This type is designed to be screwed upon the ceiling where used, and has a hook below from which the lamp is carried. The finish is in highly polished brass. The circuit leads marked C and C in the diagram, come out above. The lamp connections are made to binding posts below, one side of lamp circuit being connected to O and the other to either of those marked 30, 32 and 34, depending on the voltage required at the lamp. This is strictly an indoor type.

Rectangular Out Door Type.

The connections with this type correspond exactly to the circular outdoor type. The case is cast-iron with black japan finish.

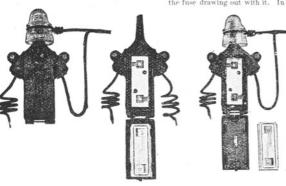
Code Word.	List Mo.	List Price.
Adamerul	25686	Circular Outdoor Type \$15.00
Adanicet	25687	Ornamental Type
Adart	25688	Rectangular Outdoor Type 13.00

Wagner Co.'s High Potential Fuse Cut=Out Boxes.

We illustrate two distinct types of independent single-pole cut-out boxes, for use on the primaries of transformers or as junction boxes on primary circuits. Type XL, operates as follows: On opening the box, the lid comes forward and down, the top porcelain block containing the fuse drawing out with it. In this way the opening of the box breaks the circuit. The porcelain block con-

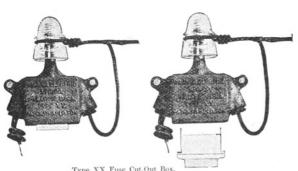
taining the fuse is still further removable by simply drawing out from the end of the lid, thus entirely detaching it from the box. A spring between the block and lid, prevents the block sliding out by its own weight. The porcelain parts fit closely to-

gether, the spring in the lid serving also to press the upper half down on the lower half. A rubber gasket completes the perfection of the joint. This cut-out is waterproof, affords perfectly safe replacing of fuses on live circuits and assures reliable blowing of fuses. The insulator pin surmounting it is also a great advantage, saving an insulator fixture for every box installed. This cut-out is recom mended for all transformer and junc tion box service within the following



Type XL Fuse Cut-Out Box.

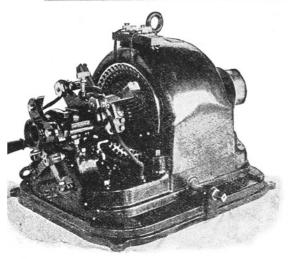
On	1000	Volt	Circuits.	 ,														30)	Amperes
66	2000	66	" .															15	5	4.6
61	3000	64					 										,	10)	6.0
**	4000	64	44			. ,						 				,		8	3	6+
16	5000	**					 		Ü	į.								ť	;	61

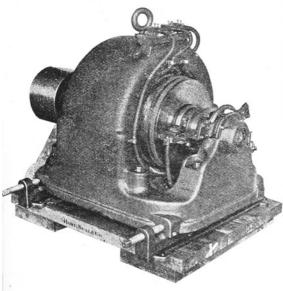


Type XX is peculiarly adapted for transformer work, and is recommended for this service up to a maximum capacity of 5 kilowatts. A removable porcelain plug carries the fuse, and is held securely in position by the tension of the contact clips through which the current passes, reinforced by springclips. The fuse is enclosed in an airtight chamber, and will blow on a dead transformer short circuit with absolutely no noise or other disturbance. The cut-out also carries the insulator pin.

Type XX Fuse Cut-Out Box.

C	ode Word.	List No.	Lu	st Price.
A	daption-	25674	Type XL eachnet	\$3.00
A	daptly	25675	Extra Porcelain Block (each half)het	.75
A	dd	25676	Type XX eachnet	3.00
A	ddible	25677	Extra Porcelain Plugsnet	.75





Wagner Electric Co.'s Single Phase Alternating Power Motors.

The Wagner Co. single phase power motors are designed to operate on circuits of either 60 or 133 cycles. They are induction motors in principle, operating in the following manner: For starting, the armature and field windings are connected in series and the motor runs up to speed exactly as would a direct current series motor. When the running speed has been attained, the armature winding is disconnected from the field and completely short-circuited on itself by means of a ring which slides over the commutator. The motor then runs at a speed slightly below synchrönous speed, and carries its full rated load with a drop, in speed not exceeding two per cent. An overload of from 25 to 50 per cent, will be taken care of without trouble. The heating of the various parts of the machine is practically neglible after continuous duty at full load. The mechanical construction is in all respects first class. The bearings are of the self-aligning, self-oiling variety, and, being-made of phosphor bronze, will last indefinitely.

In the smaller sizes the starting operation is performed by hand, a convenient starting switch being mounted directly on the motor frame. In the larger sizes this operation is performed an tomatically, the only requirement from the attendant being the closing of the main switch

This main switch may be located at any point convenient to the attendant, in the same room with the motor or elsewhere as desired.

Another admirable characteristic is that these motors may be connected upon the same secondary circuits as are incandescent and fire lamps, thus avoiding the necessity for additional transformers for motor service. There are no reactive or disturbing effects on the lights when thus operated in conjunction with motors, as is so objectionably the case with synchronous motors. Furthermore a momentary disturbance of the current supply, arising from the throwing over of the circuit at the central station from one machine to another, does not affect the running of the motor, unless the motor load is of such character as to ordinarily stop it very quickly when current is cut off.

These motors have practically the same efficiency as the best shunt wound direct current motors, and the fact that there are no brushes running constantly on the commutator gives rise to a noiselessness of operation.

Sizes are now ready for the market as follows! 60 Cycles.

Code Word.	List No.						Price
Addice	25678	.5	H.	P			\$370.00
Addoom	25679	5	61				500.00
Acpuler	25680	10	14				950.00
Actamer	25681	15	- 11		,	. ,	1250.00
	13,	3 6	yc	les.			
Actegor	25682	1	1/2	H. F			\$370.00
Actopun	25683	4		61			500.00
Actupia	25684	7	1/2	**			950.00
1-1	DECOE	10		61			1250 00



72-inch Direct Connected Unit.

Wagner Electric Mfg. Co.'s Direct-Coupled Ventilating Outfits.

These outfits are built for operation on 110, 220 or 500 voil direct current systems. The motors are multipolars, with self-aligning, self-oiling bearings. The outfits are noiseless and deliver a maximum volume of air for a minimum consumption of driving energy. They are furnished for erection in two ways, viz.: supported on a substantial cast iron base or carried by means of flanges on the outside of the sneet steel cashing.

Prompt delivery can be made on the sizes listed below

Diameter of an in Inches.	No of Speeds	Max capacity in cubic fee per minute	Max. revolutions per minute	Price
24 30	12 12	9,000 12,000	1,500 1,200	\$ 350. 500
21 30 34 35 42 48 54 60 72	12 12 12	15,000 18,000 25,000 30,000	1,000 950 900 800	600, 650, 800, 950,
54 60 72	12 12 12 12	40,000 50,000 75,000	750 500 400	1,100 1,200 1,500

Write for Discounts.

POWER TABLE.

5	SIZE OF FAN.	24	- 30	34	36	42	48	54	60	•72
600	Cubic feet per M	1884	2940	3780	4236	5772	7536	9540	11778	16962
	R. P. M	310	247	220	206	177	155	137	124	103
	H. P.	.066	.103	.132	.148	.208	.271	.353	.435	.636
900	Cubic teet per M	2826	4410	5670	6354	8658	11304	14310	17667	25473
	R. P. M	464	372	332	310	265	232	206	185	155
	H. P.	.139	.258	.360	.413	.588	.792	1.000	1.253	1.870
1200	Cubic feet per M R. P. M	3768 618 .256	5880 495 .477	7560 441 .650	8472 412 .754	11544 353 1.083	15072 310 1.483	19080 275 1.908	23556 247 2.400	33924 206 3.590
1500	Cubic feet per M R. P. M H. P.	4710 773 400	7350 620 735	9450 552 1.012	10590 515 1.165	14430 441 1.700	$18840 \\ 386 \\ 2.350$	$23850 \\ 343 \\ 3.250$	308	42405 258 5.780
2000	Cubic feet per M	6280	9800	12600	14120	19240	25120	31800	39260	56540
	R. P. M	1030	822	734	685	586	514	456	410	342
	H. P	.805	1.420	1.954	2,260	3.310	4.570	5.980	7.650	11.58

Bare Copper Wire.

SPECIAL PRICES QUOTED ON EITHER SOFT OR HARD DRAWN,



Am.		Circular Mils	a	-Weight	& L'gth Sp	Gr. 8,9	-	Resista	nce at 75° F	
Gauge. B. & S. No.	Diam. Mils.	(d2) 1 Mil. = ,001 Inch.	Square in. (d=x7854).	Lbs. per 1,000 Ft.	Pounds per Mile.	Feet per Pound.	Ohms per 1,000 Feet.	Ohms per Mile	Feet per Ohm.	Ohms per Lb
0000	460.000	211600.00	166190	639.33	3375.7	1.56	.04906	.25903	20383.	.000076736
000	409.640	167805.00	131790	507.01	2677.0	1 97	06186	32664	16165.	00012039
00	364.800	133079.40	104520	402 09	2123.0	2.49	07801	41187	12820.	.00019423
0	324.950	105592.50	82932	319.04	1684.5	3.13	.09831	51909	10409.	.00030772
1	289,300	83691.20	65733	252.88	1335.2	3.95	.12404	.65490	8062.3	.00048994
2	257.630	66373.00	52130	200.54	1058.8	4.99	15640	82582	6393.7	.00078045
3	229.420	52634.00	41339	159.03	839.68	6.29	.19728	1.0414	5070.2	.0012406
4	204.310	41742.00	32784	126.12	665.91	7.93	24869	1.3131	4021.0	.0019721
5	181.940	33102.00	25998	100.01	528.05	10.00	31361	1 6558	3188.7	.0031361
6	162.020	26250.50	20617	79.32	418.81	12.61	.39546	2.0881	2528.7	0049868
7	144.280	20816.00	16349	62.90	332.11	15.90	.49871	2.6331	2005.2	.0079294
- 8	128.490	16509.00	12966	49.88	263.37	20.05	.62881	3.3201	1590.3	.012608
9	114.430	13094.00	10284	39,56	208.88	25.28	79281	4.1860	1261.3	.020042
10	101.890	10381.00	8153.2	31.37	165.63	31.38	1.	5.2800	1000.0	.031380
11	90.742	8234.00	6467.0	24.88	137.37	40.20	1.2607	6.6568	793.18	.050682
13	80.808	6529.90	5128.6	19.73	104.18	50.69	1.5898	8.3940	629.02	.080585

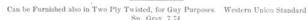
Dimensions and Resistances of Copper Wire.

LARGER THAN NO. 0000 B. & S.

No. B. & S. 5°	Dia In.	meter. Mils. 515	Circular Nils. 265225	Feet per Lb. 1.2863	Lbs. per Foot. ,8023	Feet per Ohm. 24658	Ohms per Mile. 205776	Approximate Safe Carrying Capacity Amperes. 375	H. P. Carried at 500 Volts. 251.3
6°	28	575.	330625	9988	1.0000	31986	.165075	457	306.3
7°					1.2391				
	18	640	409600	.8070		38843	133244	533	342.2
8°	8.6	710	504100	.6557	1.5250	48769	.108266	620	414.2
9°	8.0	785	616225	.5364	1.8642	59615	088566	709	476.5
10°	4 B	865	748225	.4416	2.2535	72385	072941	786	526.8
11°	10	950	902500	.3662	2 7302	87302	.060495	849	569.
12°	1 2 5	1040	1081600	.2131	3 2720	104641	.050450	940	630.

Galvanized Iron Telegraph Wire.

SPECIAL PRICES QUOTED ON APPLICATION





		Sp. Grav	7.74.		
No.	Size	Weight in	Pounds. ———	-Resist. in B.A. 6	Ohms at 75° F -
B. W. G.	Bundle.	Per 1,000 Feet	Per Mile	Per 1,000 Feet	Per Mile
4	4 Mile.	149.25	788.01	1.15	6.09
5	± "	127.54	673.44	1.35	7.12
6	j	108.6	573.38	1.58	8.37
7	4 "	85.38	450.81	2.023	10.65
8	1 "	71.74	378 82	2.4	12.67
9	1	57 72	304 77	2.98	15.75
10	1 **	47.32	249.84	3.64	19.21
11	1 "	37.95	200.36	4.54	23.95
13	1 "	31.31	165.01	5.51	29.1
13	ł	29.94	125.57	7.24	38 22
14	4	18.15	95.85	9.48	50.07

Table showing Difference Between Wire Gauges in Decimal Parts of an Inch.

No. of Wire Gange.	American or Brown & Sharpe.	Birmingham or Stubs	Washburn&Moen Manufacturing Co., Worcester, Mass.	Trenton fron Co., Trenton, N. J.	· New Brittsh.	Old English from Brass Mfrs. List.	No. of Wire.
000000 00000 0000 0000	.46 .40964 .3648	.454 .425 .38	.46 .43 .393 .362 .381	.45 .4 .36 .33	4 .372 .348		000000 00000 0000 000 00
0	32495	.34	.307	305	.324		0
1	2893	.3	.283	285	.3		1
2	25763	.284	.263	265	.276		2
3	22942	.259	.244	245	.252		3
4	,20431	.238	.225	225	.232		4
5	18194	22	.207	.205	.212		5
6	16202	203	.192	.19	.192		6
7	14428	18	.177	.175	.176		7
8	12849	165	.162	.16	.16		8
9	11443	148	.148	.145	.144		9
10	.10189	.134	.135	.13	.128	.083	10
11	.090742	.12	.12	.1175	.116		11
12	.080808	.109	.105	105	.104		12
13	.071961	.095	.092	.0925	.692		13
14	.064084	.083	08	08	.68		14
15 16 17 18 19	057068 05082 .045257 .040303 03589	.072 .065 .058 .049 .042	.072 .063 .054 .047 .041	.07 .061 .0525 .045 .039	.072 .064 .056 .048	072 065 058 049 04	15 16 17 18 19
20	.031961	035	.035	.034	.036	.035	20
21	.028462	032	.032	.03	.032	.0315	21
22	.025347	.028	.028	.27	.028	.0295	22
23	.022571	025	.025	.024	.024	.027	23
24	.0201	.022	:023	.0215	.022	.025	24
25	.0179	.02	.02	.019	.02	.028	25
26	.01594	.018	.018	.018	.018	.0205	26
27	.014195	.016	.017	.017	.0164	.01875	27
28	.012641	.014	.016	.016	0148	.0165	28
29	.011257	.013	.015	.015	0136	.0155	29
30 31 32 33 34	.010025 .008928 .00795 .00708 .006304	.012 .01 .009 .008 .007	.014 .0135 .013 .011	.014 .013 .012 .011 .011	0124 .0116 .0108 .01 .0092	.01375 .01225 .01125 .01025 .0095	30 31 32 33 34
35	.005614	.005	0095	009	.0084	.009	35
36	.005		.009	.008	.0076	.0075	36
37	.004453		.0085	00725	.0068	.0065	37
38	.003865		.008	0065	.006	.00575	38
39	.003531		.0075	00575	.0052	.005	39
40	.003144		007	005	0048	0045	40

Equivalents of Wires Brown & Sharpe Gauge.

ОККО	2	No.	0	4	No.		8	No.		16	No.	9	32	No	12	64	No.	
000	2	••	1	4	**	4	8	••	7	16	**	10	32	**	13	64	••	1
-00	.2	••	2	i 4	**	5	8	••	8	16	**	11	32	••	14	64	::	1
0	2 2	••	3	4	**	6	8 8	**	9	16	**	12	32	**	15	64		1
1	2	••	4	4	••	7	8	**	10	16	••	13	32	••	16	64	••	1
2	2	••	5	4	**	8	8	••	11	16	••	14	32	**	17	64	::	2
2 3 4 5 6	2 2 2 2 2	**	6	4	••	9	8	••	12	16	••	15	32	••	18	64	::	2
-4	2	••	7	4	**	10	8	**	13	16	**	16	32	**	19	64	::	2
- 5	2	**	8	4	••	11	8	••	14	16	••	17	32	**	20	64		2
6	2	••	9	4	**	12	8	••	15	16	••	18	32	••	21	64	••	2
7	2		10	4	**	13	8	••	16	16	••	19	32	••	22	64	••	2
8	2	**	11	4	**	14	8	**	17	16	••	20	32	••	23	64	••	2
7 8 9	2 2	••	12	4	**	15	8	••	18	16	••	21	32	**	24	64		2
10	2	**	13	4	••	16	8	••	19	16	••	22	32	••	25	64		2
11	2	••	14	*	••	17	8	**	20	16	••	23	32	••	20	64		2
12	2 2	••	15	4	••	18	8	**	21	16	••	24	32	::	27	64	••	3
13	2	••	16	4	••	19	×	••	22	16	••	25	32	::	28	1		
14	2	••	17	4	••	20	8	**	23	16	••	26	32	::	29			
15	2 2	**	18	4	**	21	8	**	24	16	**	27	32	••	30			
16	2	••	19	4	••	22	8	**	25	16	••	28				ŀ		
17	2	••	20	4	••	23	8	**	26	16	••	29	١.					
18	2	••	21	4	••	24	8	**	27	16	••	30	ı			ı		
19	2 2 2 2	••	22	4	••	25	8	••	28	1			ĺ			1		
20	2	••	23	4	••	26	8	**	29	ı			ı					
21	2	**	24	4	**	27	\$	**	80	ı			(

Electric Light Conductors.

R WIKE		Dhas pet Pound.	.000076736 .00012039 .00019423	.00030772 .00048994 .00078045	.0012406 .0019721 .6031361	.0049808 .0079294 .012608	.020042 .031380 .050682	.080585 .12841 .20880	.31658
URE COPPE	AT 75 DEGREES F. (23.89 DEG. CRNT.)	Feet per (Mm.	20383 16165 12820	10409 8062.3 6393.7	5070.2 4021.0 3188.7	2528.7 2005.2 1590.3	1261.3 1000.0 793.18	629.02 498.83 385.97	321.02 24× ×1
TANCE OF	AT 75 D (28.89 D	Ohms per Mile.	25503 32664 41187	.51909 .65490 .82582	1.0474 1.3131 1.6558	2.0881 2.6331 3.3201	4.1860 5.2800 6.6568	8.3940 10.585 13.680	16: 477
Resi		Teg smilO 7,000 Feet.	.04906 .04186 .07801	.12404	. 19723 . 24869 . 31361	.89546 .49871 .62881	.79281 1.2607	1.5898 2.0047 2.5908	3,1150
LENGTH.	WEATHER- PROOF IN- SULATION.	Feet per Pound	2 1 1 25 2 1 25 2 1 25	2.8.4 5.25 5.25	5 5.50	11. 13.30	16 19 22.75	27.25 32.50 39	62.50
ä	BARE.	Feet per Pound	- 50 50 5 75	क्ष 4 10 21	6.3 80 10	12.6 16 20	25 40 40	5 6 8 8 1	102
	WEATHER PROOF IN- SULATION	Pounds per Mile.	0000	2036 1628 1310	1060 268 268 266	15.05 15.05	228 233 231	858	111 102
Ę	WEA PROO SULA	Pounds per 1,000 Feet.	86.53 86.53	88.83 18.85	158 158 158 158	584	334	82.8	21 X
Wеіснг.	Ε.	Pounds per Mile.	3359 2663 2112	1661 1328 1069	832 642 526	282 282 283	208 145 131	5 38 ts	51.5
	BARE.	Pounds per Linux Feet.	312 639 . 33 3 282 507 . 01 2	50 125 185 319.04 166 50 105 156 252.88 132 55 88 131 200.54 105	110,259.03 92,126.12 77,100.01	55.55 5.50 5.50 5.50 5.50 5.50 5.50 5.5	39.3 6 31.37 24.88	19.73 15.65 12.41	85
SAFE CARRYING	r ES.	Concealed Work.	252 252 252 252 252 252 252 252 252 252	25.55 25.55 25.55 25.55		is :&	: 23:	8 2	:
AR.	CAPACITY IN AMPERES.	Concealed S	219 175 300 218 028 145 245 181 431 120 215 150	858	833		: 83 :	12:23	-:
9	S A	New England Code.	9888	100 190 130 135 135	5 538	868	86%	888	20 20
SAS	=	National Code.	15.65		888	888	୍ଷ :	15	:
. A. 1 A. A. L.	SECTION AND AND AND AND AND AND AND AND AND AN	Square restremilliM	107, 219 85, 028 67, 431	53.504 42.409 33.632	26.670 21.151 16.773	13.301 10.548 8.366	6.635 5.260 4.172	3.309 2.618 2.081	1.650
	tuos no nkki ū	Circular Mila.,	000 11 .684 211400 .01 640 10 .405 147805 .0 800 9 .266 133079 .4	105592.5 83694.2 66373.0	52634_0 41742_0 33102_0	26250.5 20816.0 16509.0	13094.0 10381.0 8234.0	6529.9 5178.4 4106.8	3256.7
	TER.	Millimetres.	00011.684 64010.405 800 9.266	8.254 7.348 6.544	5.827 5.189 4.621	4.115 3.665 3.264	2.305 2.388 2.305	2.053 1.828 1.628	1.450
	DIAMETER	.eliM	460,000 409,640 364,800	324,950 289,300 257,630	229, 420 204, 310 181, 940	162.020 144.230 128.430	144, 430 101, 830 36, 742	80.808 71.961 64.084	57.068
N & N &	BROW!	, Š	888	ত ল ম ত	62.413	⊕1-œ	6 51	222	12 :

B00KS.

1		PRICE
ABERNETHY	.Commercial and Railway Telegraphy	
Allsop	.Electric Bell Construction	1.25
Allsop	.Electric Bell Fitting	1.25
Allsop	. Induction Coils	1.20
ALLSOP	.Tclcphones: Their Construction and Fitting	2.00
Allsop	. Electric Light Fitting	. 1.50
ANDERSON	Lightning Conductors	5.00
ATKINSON	.Elements of Electric Lighting.	1.50
ATKINSON	Static Electricity	1.50
ATKINSON	.Dynamic Electricity	2.00
ATKINSON	Electric Transformation of Power	2.00
ATWOOD	Practical Dynamo Building	3.00
	Practical Electricity	
BADT	Dynamo Tenders' Handbook.	1.00
Badt	Electric Transmission	1.00
Badt	.Incandescent Wiring	1.00
	Bell Hangers' Handbook.	
	Alternating Currents	
	.Voltaic Cell	
	Electroplaters' Handbook	
	Electric Instrument Making	
	Electric Bells and All About Them	
	.Electric Motors	
Carhart	.Primary Batteries.	1.50
	Continuous Current Dynamos and Motors	
	.Practical Management of Dynamos and Motors	
	Electric Railway in Theory and Practice	
Davis	Standard Tables for Electric Wiremen	1.00
DAY	Electrical and Magnetic Measurement	1.00
Dearlove	.Working Speed of Cables	.75
Desmond	Electricity for Engineers	2.50
	.The Telephone	.50
Du Moncel	Electricity as a Motive Power	3.00
	. Electro-Magnets	.75
Ewing	Magnetic Induction of Irou	4.00

		PRICE
	.House Lighting by Electricity	
	.History of Electric Telegraphy	
	Electricity in Theory and Practice	
FLEMING	Short Lectures to Electrical Artisans	1.50
GILBERT	De Magne's	4.00
GORE	Art of Electro-Metallurgy	2,00
GORE	Electro-Chemistry	.80
GORE	Electric Separation of Metals	3 50
GUILLEMIN	.Electricity and Magnetism	8.00
GRIER	Wiring Tables, how they are made and how to use them	1.0
HALL DAY	Design of Small Dynamo	1.00
HASKINS	Transformers	1.25
HASKINS	Galvanometer and Its Uses	1.50
HAWKINS & WALLIS	.Dynamo	3.00
Hedges	.Continental Electric Light Central Stations	6.00
	American Electric Street Railways	
	.Dynamo Electric Machines	
HERING	Winding Magnet and Dynamos	1.25
HERING	.Universal Wiring Computer	1.00
	.Recent Progress in Electric Railways	
	.Telephone Lines	
Hopkinson	.Dynamic Electricity	50
	Original Papers on Dynamo Machinery	
HOSKIAR	Electric Testing of Electric Cables	1.50
	. Domestic Electricity for Amateurs	
HOSPITALIER	.Polyphased Currents	. 1.40
	.Dictionary of Electrical Words, Terms and Phrases	
	.Electricity and Magnetism	
Houston	Electrical Measurements	1.00
	"Magneto Hand Telephone	
JACKSON	.Electro-Magnets and Construction of Dynamo	2.25
Jenkin	.Elementary Electricity	40
Jenkin	.Electricity and Magnetism	1.25
Kapp	. Electric Transmission of Energy, New Edition	3.50
	.Alternate Current Machinery	
Kapp	.Alternating Currents of Electricity	1.00
	Dynamos, Motors and Transformers	
	. Electric Testing	
Kennelly	.Electro-Dynamic Machinery	1.50
	.Electro-Deposition	
	.Incandescent Electric Lighting	
	. Electricity, Magnetism and Electric Telegraphy	
Lockwood	.Electrical Measurement and the Galvanometer	
	.Practical Information for Telephonists	
	.Modern Views of Electricity	
	.Lightning Conductors	4.00
LORING	Floatro Magnetia Telegraph	***

Martin	PRICE.
MARTIN & WETZLER Electro-Motor and Its Applications	
MAVER	
MAYER & DAVIS	
MAYCOCK	
McClure Edison and His Inventions	
McMillanElectro Metallurgy	
MEADOWCROFT	
MERRILL	
Monroe & JamiesonPocket Book of Electrical Rules	. 2.50
Niaudet	
NIBLETTPortative Electricity	
NoLL	1.50
NIPHER	1.00
OHM	50
PARKHURSTElectric Motor Construction for Amateurs	
PARKBURST	1.00
POOLEPractical Telephone Handbook	1.50
POPEElectric Telegraph	1.50
Practical Electrics.	78
Preece & SivewrightTclcgraphy	2.00
PREECE & STUBBSManual of Telephony	4.50
Prescott Electric Telegraph, 2 Vols	
Prescott Electric Telephone	6.00
PRESCOTT Dynamo Electricity	
RAM:	3.00
Reckenzaun Electric Traction on Tramways	
Reports	
REYNIERVoltaic Accumulators	
RUSSELL	
SALOMONSManagement of Accumulators	1.50
SCHELLEN Magneto-Electric and Dynamo-Electric Machines	
SLOANE Electricity Simplified	
SLOANE Electric Toy Making	
SLOANE Arithmetic of Electricity	
SLOANE Standard Electrical Dictionary	
SPANGLightning Protection	
SPON	
SPRAGUE Electricity	
STEPHEN	
Swindowne & Others Electric Measuring Instruments	
Synons Lightning Rod Conference.	
Terry & Finn	1.50
Tesla	1.00
TESTA.	1 50

		PRICE.
THOMPSON	.Philip Reis, Inventor of Telephone	\$3.00
THOMPSON	.Electro-Magnets	6.00
THOMPSON	.Elementary Lessons in Electricity and Magnetism	1.25
THOMPSON	Dynamo Electric Machinery, 5th Edition	9.00
Thompson & Thomas	.Electrical Tables and Memoranda	.50
Uppenborn	.History of the Transformer	.75
URQUHART	.Electrotyping	2.00
Urquhart	Electric Light	3.00
Urquhart	.Electric Light Fitting	2.00
Urquhart	.Dynamo Construction	3.00
Walker	.Practical Dynamo Building	.50
Walker	.Electric Lighting for Marine Engineers	2.00
WATT	.Electro-Metállurgy	1.00
Webb	.Testing Insulated Cables	1.00
WEYMOUTH	.Theory and Construction of Drum Winding	3.00



Index to Code Words.

A	PAGE.	PAGE.	PAGE.	PAGE.	PAGE.
PAGE.	Abecedarian 96 Abed 96	Abnodation 122 Abnormal 467	Absolvatory 138 Absolve 207	Academism 34 Academist 34	Accommodating. 99 Accompany 239
Aam 104	Abele 96	Aunormous 122	Absolver 207	Acadian 31	Accomplice 422
Aard-vark 104	Abeltreo 96 Abelian 96	Aboard 467 Abodance 122	Absolving 207	Acalepha 34	Accomplication 99
Aaronic 118 Aaronical 118	Abelite 96	Abode	Absonate	Acalephan 34 Acalephh 34	Accomplicity 99 Accomplishable 99
Aaron's-rod 118 Ab 118	Abelmark 96 Abelmark 96	Abodement., 122	Absonous 138	Acalephh 34 Acalephoid 34 Acalycine 34	Acconublisher. 99
Abaca 118	Averdevine 96	Aboding 126 Abolete 126	Absorb 207 Absorbabil 138 Absorbeable 138	Acalycine 34 Acalycinous 34	Accomplishment 99
Abaciscus 118 Abacist 118	Aberr 96 Aberrance 96	Abolis	Absorbeable 138	Acantha 34	Accompt 78 Accomptable 320
Abacot 118	Aberrancy 119 Aberrancate 119	Abolish	Absorbent 207 Absorbing 207	Acanthine 34	Accomptant 320 Accordable 320
Abactor	Aberuncate 119 Aberuncator 119	Abolisher 467 Abolishment 126	Absorbition 138 1	Acanthion 34 Acanella. 32	Accordable 320 Accordancy 320
Abaens 466 Abaddon 118	Abetment 119 Abettai 119	Abolishism 126	Absorpt 138 Absorption 207	Acapella 32 Acariden 32	Accordion 319 Accordionist 319
Abaddon 118	Abettar 119	Abolition 467 Abolitionism 126	Absorptive 151 Absorptivity 151	Acarnone 30	Accorporate 319
Abaft 466 Abaisance 112	Abettor 119 Abevaeuation 119	Abolitionist 126		Acatalectic 30	Accost
Abaiser 112 Abalienate 112	Abeyance 119 Abeyant 119	Abolitionize 126 Abolia 126	Abstain 227 Abstainer 163	Acatalepsy 100	Accountability, 319
Abalienate 112 Abalienation 112	Abgregate 119 Abgregation 119	Aboma 126	A ostelinous 163 1	Acater 100 Acates 100	Accountable- ness 319
Aband	Abhal 119	Abomasum 126	Abstemiously 32 Abstemiousness. 32	Acates 100 Acathistus 31 Acaulescent 31	Accountably 319
Abandonee 112	Abhal	Abomassus 126 Abominable 126	Abstention 39 1	Acauline 69	Accountant 319 Accountantship, 319
Abandoner 466 Abandoning 466	Abhor	Abominably 467 Abominabler 126	Absterge 227 Abstergent 32	Acanlose 69 Accede 226	Account book 348 Accouplement 225
Abandoning 466 Abandonment 112	Abhorrency 119	Abominate 467 Abominated 467		Acceded 226	Accourt 225
Abandum 120 Abanet 120	Abhorrently 119	Abominated 467 Abominating 467	Abstersive 32 Abstinence 32	Accede 226 Acceded 226 Acceding 226 Accelerate 226 Accelerate 226	Accontrements., 225
Abanga 120 Abannation 120	Abhorrer 119	Abomination 127	Abetinoney 99		Accredit, 372 Accredation 372
Abanition 120	Abhorrible 119 Abhorring 119	Abord 126	Abstinent 32 Abstinently 32	Accelerative 69 Accelerator 69	Accredation 372 Accrescence 239
Abaptista 120	Abib	Abord 126 Aboriginal 489		Acceletory 69	Accrescent 289
Abaptiston 120 Abare 120	Abider 122	Aborigines 489 Aborsement 489	Abstract 227 Abstracted 32 Abstractedly 32 Abstractedness 32	Accend 69 Accendibility 69	Ageretion 989
Abarticulate 120 Abarticulate 120	Abidingly 122 [Aborsive . 126	Abstractedly 32	Accendible 69	Accretive 289
Abas 120 Abase 466	A bietie 122	Abound	Abstractedness. 32 Abstraction 32		
Absenment 4:00	Abigail 122 Abiliment 122		Abstractor 32	Accentual 69	Accroachmen 289
Abashed 466	Abintestate 122 Abirritation 122	Above 489 Above-board 126	Abstractions 32 Abstractitions 32	Accentuate 69 Accentuation 69	Accrue 229
Abash 466 Abashed 466 Abashing 466 Abashment 120	Abject 466 Abjection 466	A bove-cited 126 l	Abstractive 32	Acceptablenes 69	Acenbation 229
Abassi 120	Abjectly 466	Above-deck 126 Above-said 126		Acceptability 69 Acceptably 69	Accubitus 229 Accumb 229
Abassi 120 Abassis 120 Abato	Abjectness 466 1	Abowed 121 Abrade 489	Abstractness 32	Acceptancy 69	Accumbency, 229
Abated	Abjudicate 122 Abjudication 122	Abraham 489	Abstricted 32 Abstringe 33	Acceptation 69	Accumbent 229 Accumulation 229
Abatement 466	Abingate 122	Abraid 126 l	Abstrude 33	Acceptine 60	Accumulative 229 Accumulatively 229
Abater 466 Abatised 121	Abjuntive 122 Abjuration 122	Abrasion 489 Abraum 126	Abstrusely 33 Abstruseness 33	Aeceptor 69 Aecessarily 429	Accumulatively . 229 Accumulator 229
Abator 120 Abatship 121	Abjuratory 122	Abraum 126 Abraxas 126	Austrusion 33 [Accurately 299
Abattis 120 Abattoir 466	Abjure 466 Abjurement 122	Abreast 126 Abreaounce 126	Abstrusity 33 Absume 33	Accessary 429 Accessibility 429	Accursed 229 Accusable 229
Abattoir 466 Abatude 121	Abjurer 122 Ablactate 122	Abrenounce 126 Abricock 126	Absume	Aecession	Accusat 229
Abature 121	Ablactation 199	Abricock 126 Abridge 489		Accessorial 429	Accusative 229 Accusatively 229
Abba	Ablacqueate 122 Ablacqueation 122	Abroach 126 Abrogation 126	Absurdly 227 Absurdness 33	Aecessority 429	Accusatively 229 Accusatorial 229
Abbaey 466 Abbatial 121	Ablation 466	Abrood	Abuna 33	Accidence 429	Accuse
	Ablative 466 Ablaze 466	Absaloni 207 Abscess 207	Abuna	Accidental 226 Accidentalism 429	Accuse 229 Acentric 229
Abberate 119 Abberation 119	Able	Abscissa 101	Abundantiv 33	Aecidentality 429 J	Acephalan 229
Abbess 466 Abbey 466	Ablegate 122	Abscissian 101 Abscord 207	Abusable 33 Abusage 33	Accidentally 430 Accidentalness 430	Acephali 229 Acephalist 229
Abbreviate 121	Ablegate 122 Ablegation 122	Absconded 207	Abuseful 23	Aecidentiary 430	A cephalons 229
Abbreviation 121 Abbreviator 121	Ablen 122 Ablet 122	Abscondence 96 Absconder 96	Abuser	Accipient 430	Ace-point 221 Acer 229
Abbreviatory 121	Ablenese 122	Absent 96 1		Accipiter	Acerb 220
Abbreviature 121 Abb-wool 121	Abler	Absenteeism 96 Absenter 83	Abusive 227 Abusively 34 Abusiveness 34	Acclaim226	Acerbata
Abdal . 121	A Diest 122	Absentation 83	Abusiveness 34		Aceric
Abderlan 121 Abderlte 121	Abligate 122 Abligation 122	Absentancous 85 Absentment 85	Abut	Acclimate 430 Acclimation 430 Acclimatement. 430	Acerous 229
Abdert 121 Abdicant 121	Abligation 122 Abligarition 122	Absinthian 85	Abutter 34 Abutting 227	Acclimatement. 430	Acervation 229
Abdication 121	Ablocate 122 Ablocation 122	Absinthiate 85 Absinthiated 85	Abvolate 34	Acclimatize 430	Acervose 230 Acescence 230
Abdicative 121 Abditory 121	Abloom 122	Absinthme 85	Abvolate 84 Abvolation 34	Acelivity 239 Acelivous 430	Acescency 230 Aceplabler 230
Abdomen 121	Abluent 122 Abluent 122	Absinthium 85 Absis 85	Abysmal 34	Accley 430	Acetable 220
Abdominal 121 Abdominopy 121	Ablution 467 Ablutionary 122	ADSIST 85	Abyss 226	Accloy 430 Accol. 430 Accolent 99 Accolent 99	Acelal
Abdominons 121	ADRIVIOH 122	Absolutely 907	Abyssinian 24	Accolent 99	Acctify 230
Abducent 96 Abduct 96	Ably	Absolutt	Abyss	Accommunation., 39	Acetometer 230
Abduction 96		Absonitchess, 85		Accommodable 99	Acetyle 230
Abductor 96 Abcam 96	Abnegative 122 Abnegator 122	Absolutist 138 Absolutistic 138	Academian 34	ness	Achaian 230
Abear 96 Abearance 96	Abuet 122 Abuodate 122	Absolutory 138 Absolvable 138	Academical 31	Accommodate-	Achate
Assertance 30	жолоные 122 г	Ausorvanie 138 1	Academician , 34 1	ness	Achean 231

PAGE.	PAGE.	** FAGE: Alleging 471 Alliant 471 Allied 471	PAGE.	Astronomer 262 Astutely 202 Astutely 202 Astutely 202 Atlantic 267 Atlantis 267 Atlantis 267 Atlanosphere 267	PAGE.
Acheenese 231	Actionable 496 Actionably 496	Allegnig 471	Arbitrator 401	Astronomer 262	Billions 427
Acheenese 231 Acherset 231 Achievement	Actionably 496	Aijiani 471	Arcade 401	Astute 262	Bilions 427 Bilk 428 Bilked 428
Achievement 231	Actionary 496	Allied 471	Archangel 405 Archangel 89	Astutely 262	Bilked 428
Achiever 231	ACHOMSI 494	Alligate 471 Alliston 471 Alliston 471 Alliston 471 Allicration 471 Allocation 47	Archibald 89	Atlantic 267	Bilking 377 Billbook 377 Billet 377
Achiole 231 I	Action sermo 497	Allision 471	Archer 89 Arching 89 Architect 80 Archives 467 Archiwes 467 Archiway 467 Archiwise 467 Archic 467 Archa 467 Ardour 467 Arca 467 Arca 467	Atlantis 267	Billbook 377
Achor 231 Achromatic 231 Achdiferous 231 Acidiferous 231 Acidification 231 Acidification 231	Actitation 497 Activate 497 Active 497 Actively 497 Activeness 497	Alliteration 471	Arching 89	Atlas 267	Billet 377
Achromatic 231	Activate 497	Allo 411	Architect 89	Atmosphere 267	Billion 418 Bindingly 104 Binnacle 411 Binocular 374 Bluoculate 374
Acidiferous 231	Active 497	Allonathy 471	Archives 467		Bindingly 104
Acidifiable231	Actively . 497	Allof 471	Archness 467	В	Binnacle 411
Acidification 231	Activeness 497	Allotmont 471	Archyer 467	D	Ringeular 374
Aciditier 231		Charanae 111	Archaire 167	Dold 451	Rinoculate 271
Acidify 232	Activity 137	Allowance 411	ATCHWISE 403	Datit 401	Dinomini 100
Acidify 232 Acidmeter 232 Acidimetry 232	Activity 497 Actopion 503 Actor 497 Actual 497 Actuality 497 Actualization 497 Actualization 497	Anowing 411	Areue 467	Bald	Binomial 402 Biographer 416
Acidmeter 232	Actopion 503	Alloy 411	Ardour 467	Beach tol	Biographer 416
Acidimetry 232	Actor 497	Alloyage 411	Area 467	Beacon 101	Biographic 416
Acidness 232	Actual 497	Alloyed 411	Arena 467	Beambird 104	Biographical 416
Aciduess 232 Acidulate 231 Acidulated 231	Actuality 497	Allspice' 411	Area 467 Arena 467 Argent 467 Argument 467	Beamless 419	Biography 416
Acidulated 231	Actualization 497	Allude 411	Argument 467	Beamlet 407	Biology 416
		Alluding 411	Arid	Beamtree 407	Birch 416
Aciform 23t Acinaceous 231	Actually 497	Alluminor 483	Aridity 467	Beamy 457	Birchen 416
Acinaceous 231	Actualness 497	Allured 483	Aright 467	Bean 407	Bird 416
Acinaces 231	Actually 497 Actualness 497 Actuation 497 Actuator 497	Allusivo 482	Ariso 407	Boancaper 407	Birth 416
Acinaciform 231	Actuator 497	Allucivoly 193	Arison 467	Bearend 407	Blanche 416
Acinaces	Actuator 407	Althornding 100	Ariste 467 Aristen 467 Aristocrat 467 Aristocrat 467 Armorer 467 Armorial 467	Beach 101	Dhart 410
Achinol III 231	Actuose 497 Actuosity 497	Amanume 483	Allstociat 407	Deanied 407	Diast
Acinose 14	Actuosity 497	Annightny 483	ATK 467	Beaufly 407* Beaugoose 407	Diasteu 416
	Actupin 503 Acture 497	Almghty 483	Armorer 467	Beangoose 407	Blaster 416
Acinus 149	Acture 497	Almhouse 483	Armorial 467	Bear 407	Blasting 416
Acinus 149 Acipenser 149	Actuze 503	Allusive 483 Allusively 483 Allusively 483 Almandine 483 Almightly 483 Almightly 483 Almighty 483 Almoof 483 Aloof 483 Aloud 483 Aloud 483	Armoric 467	Bears 407	Blastpipe 416
Acmrgy 149	Acuition 497	Aloud 483	Armory 467	Bearable 407	Blatant 416
Acknow 149	Actuze. 503 Acultion 497 Acultator 497 Acuteness 497	Albiu 483 Alphabet 483 Alphabet 483 Alphabet 483 Already 483 Alt 483 Altar 483 Alterable 483 Alterable 483 Alterabe 483	Armoriai 467 Armoric 467 Armory 467 Armpit 467 Army 467 Arnot 467 Arnot 467 Arousing 467 Arras 407 Arthur 83 Asa 83	Bear 407 Bears 407 Bearable 407 Beard 407 Beauty 377	Binomina 42 42 43 44 44 44 44 44
Acknowledge t49	Acuteness 497	Alphabet 483	Armý 467	Beauty 377	Blaze ., 416
Acknowledger 149	Adage	Alpin 483	Arnot 467		Blazed 416
A c k n owledge-	Adameral 501	Already 483	Arousing 467	Becoming 89	Blazer 416
ment 249	Administration	Alt 492	Arras 407	Bedding 89	Blazing
Aclinic 150	Adort	Altar	Arthur 00	Bedeck 89	Rlazon
Aclinic 150	Adapter	Altorable 100	Acco 03	Beeswax 374	Rlast 410
Acmita 150	Adapter 497	Alteranie 483	4.500 dont	Beeswax 374 Beetle 374	Blooting 416
Ache 150	Adaptive 497	Alterage 483	Ascendant 470	Beetle 374	Dicating 416
Acne 150 Acockbill 150 Acold 1:0 Acology 150 Acolyte 150	Adanteet 501 Adart 501 Adapter 497 Adaptive 497 Adaption 502 Adaptly 502 Add 502 Addible 502 Addible 502	Alterage 483 Alterative 483	Asa. 83 Ascendant 470 Ascending 470 Ascension 470 Ascertain 470	Becoming 89 Bedding 89 Bedeck 89 Beeswax 374 Beetle 374 Befall 374	Ried 415
Acold 150	Adaptly 502	Altered 483	Ascension 470	Befit 374	Blemish 415
Acology 150	Add 502	Altered 483 Alternate 483 Alternatively 483	Ascertain 470	Befit 374 Behavior 375 Behead 375 Beheaded 374	Bless 415
. Acolyte 150	Addible 502	Alternatively 483	Ascetic 470	Behead 375	Blessed 415
Acolyth 150	Addice 503	Alternity 483	Ascribe 470	Beheaded 374	Blessedly 415
Acolythist 318	Addoom 503	Although 484	Ascribing 470	Behold 397	Blesser 415
Acolyth 150 Acolythist 318 Aconite 317 Aconitine 317	Addice 502 Addice 503 Addoom 503 Addocible 245 Adept 245 Adept 245 Adjective 245 Adjective 245 Adjective 245 Adjective 245	Alternatively 483 Alternatively 483 Although 484 Altitude 484 Alum 484 Always 484 Amain 484 Ambrose 484 Ambrose 484	Ascribe 470 Ascribe 470 Ascribing 470 Ashamed 470 Ashore 470 Ashpan 470 Assassin 470 Assassinate 470 Ascribing 470	Beheaded 374 Beheaded 377 Beholden 397 Reholder 394 Reholder 384 Reholding 384 Reholding 384 Reholding 384 Reholding 383 Reling 883 Reling 383	Biessedly 415 Biesser 415 Biessing 415 Biessing 415 Biest 415 Biest 415 Biest 415 Biest 415 Biest 416 Billighting 397 Binid 397 Binid 397 Binid 444 Binikers 444 Binikers 444 Biniser 444 Biniser 444 Bisselses 445 Bisstered 415 Bistering 415 Bilistering 415 Bilistering 415
Acquitine 917	Adout 945	Alum 484	Ashore 470	Reholder 384	Blest 415
Acop 259 Acoptic 259 Acorned 259 Acosmism 378	Adheriva 945	Alwaye 484	Ashuan 470	Reholding 394	Blight 415
Acop	Adinaca	Annin 101	Ashpan 470	Ruhowyo 204	Riighted 415
Acoptic 259	Adipose 245	Amam 484	ASSASSIII 400	Belloove 384	Digited 415
Acorneg 2.59	Adjective 243	Ambrose 484	Assassinate 470	Belabor 384	Digiting 397
Acosmism 378				Beiched 383	Bijina 397
Acouchy 394 Acoustics 40t	Adjudgment 245	Ambrosial 484	Assault	Belching \$83	Blinkard 444
Acoustics 40t	Adjudicate 245 Adjunction 246	Ambrosian 484] Assaulted 470	Belfry 383	Blinkers 444
Aconler 503	Adjunction 246	Ambry 484	Assaulting 470	Belgian 383	Bliss 444
Acquaintable 498	Adjunctive 246	Ambry. 484 Ambulant 484 Ambulate 484 Ambulation 484	Assav 470	Belie 383	Blissful 425
Acquest 441	Adjured 248	Ambulate 484	Assayed 470	Belied 383	Blissless 425
Acquiet 441	Adjurer 248	Ambulation 484	Assaver 468	Belike 383	Blistered 415
Acquirer 280	Addingt 948	Ambulative 484	Accepting 168	Relittle 993	Blistoring 415
Acquiet. 441 Acquiet. 441 Acquier 380 Acquiry 444 Acquist 444 Acquist 444	Adjunctive 246 Adjured 248 Adjurer 248 Adjust 248 Adjusted 248 Adjusted 248	Ambulatory 181	Assauring 470 Assay. 470 Assayed 470 Assayer 468 Assaying 468 Assemblage 468	Rellow	Blistory 415
Acquiry , 444	Adjuster 250	Ambulatory 484 Ambuscade 484 Ambuscaded 484	Assectifie 400	Bolong 100	Blistery , 415
Acquistor 444	Adjuster 250 Adjustive 250 Adjutage 251 Adjutant 251	Ambuscade 464		Delong 106	Blithe
Acquist 444	Adjustive 250	Amouscaded 484	Assemblance 468	Belonging 100	Binnetut 411
Acquitment 444	Adjutage 251	Ambushed 484	Assembling 468	genignant 375	Dillnely 411
Acquittal 457	Adjutant 251	Amelia 484	Assembly 468	Benumb 375	Blitnesome 411
Acquist 444 Acquitment 444 Acquittal 457 Acquittance 457	Adjutrix 252 Administer 252 Admirable 252	Ambushed 484 Amelia 484 Amenable 484 Amended 484 Amended 484 Amendment 484	Assent 468	Benumb 375 Benumbed 375 Bequeathing 438	Bloat 411 Bloated 411
Acrase. 490 Acraze 490 Acreage 490 Acred 495 Acredale 495 Acrid 495	Administer 252	Amend 484	Assenter 468	Bequeathing 438	Bloated 411
Acraze 490	Admirable 252	Amended 484	Assenting 468	Bereave 438 Bereaving 438	Bloater 411
Acreage 490	Admiral 252	Amendment, 484	Assentment 468	Bereaving 438	Blobber 411
Aered 495	Admiralty 241	American 106 Amethyst 106 Amidships 356	Assert 468	Bernard 444	Blown 414
Actuable 495	Admiration 941	Amothyet 106	Asserted 468	Bertha 444	Blubber 414
Acrid 195	Admittance 245	Amidehine 356	Asserting 468	Bortram 444	Blubbered 414
	Admirati 292 Admiratty 241 Admiration 241 Admittance 245 Almentation 471	Amise 250	Assembling 468 Assembly 468 Assent 468 Assenter 468 Assenting 468 Assenting 468 Assert 468 Assert 468 Asserted 468 Asserting 468 Asserting 468	Bernard 444 Bertha 444 Bertram 444 Beseech 444 Beseem 444	Bloated 411 Bloater 411 Blobber 411 Blown 414 Blubberd 414 Blubbering 427 Blubbering 427
Acridity 495 Acridness 495	Alabaster 000	Ammunition esc	Assertive 400	Beseem	Blue 490
Acrim 4th	Alabaster 288	Amiss 356 Ammunition 356 Amnesty 356 Among 356 Amorous 356	Asserting 408 Assertion 468 Assertive 468 Assessable 468 Assession 468 Assessor 468 Asseverate 468 Assignifiate 83	Beset 444 Besiege 444 Besiegement 444 Besieging 444 Besnoke 444 Besnoke 444	Blue
Aerim 495 Aerimini 495	Alumn 288	Among 250	Acceptan 400	Reciore	Rhuffness 423
Aerimini 495 Aerimonious 495	August 288	Amorous 270	A COURSOF 100	Rosiogoment 444	Rhunder 428
Acrimomous 495	Attributered 288	Amount 356	A secondarita	Recioning 444	Rhundarina 420
	Alabatros 288	Amount 506	Assimilate 408	Rosmoka 444	Rhost ***
Acrisy 495 Acrita 495 Acritan 495	Alerthess 470	Andrenist, 382	Assimilate 83 Assimilating 83	Donot 144	Phones 311
Aerita 435	Alexand	Anarchy 382	Assimilating co	BUSDE	Diunteu 387
Aeritan 495	Alabaster 288 Alarin 288 Alarin 288 Alas 288 Alabatros 288 Alertness 470 Alexand 470 Alfred 470 Algebra 470	Anatomist 382	Assistless 471 Assize 471 Assized 471 Assized 471	Pespeak 414	Builting 387
	- Algebra 470 Algebraical 470	Anatomy 382	Assize 471	pespeaking 242	Binntly 387
Acrity 495	Algebraical 470	Anation 382	Assized 471	Bespoke 242	Blur 387
Aerity 495 Aerobat 495	Algebraical 470 Alzernon 470 Algous 470 Alice 470 Alice 470 Alias 470 Alienable 470 Alienation 470	Amarchist. 382 Anarchy 382 Anatomist. 382 Anatomy 382 Anatomy 382 Anatom 382 Anecstor 382 Ancestor 382 Ancestoral 414 Anchorage 374 Anchores 103 Anchores 103 Anchores 103	Assizer 471 Associable 471 Associate 471 Associated 471 Associating 471 Associating 471 Associative 471	Besot. 444 Bespeak 444 Bespeaking 242 Bespoke 242 Bestaln 242 Bestalr 242	Bundering 377 Blunted 377 Blunted 387 Blunting 387 Bluntily 387 Blur 387 Blurred 387 Blurring 387 Blushfully 406 Blushing 406
Aerobatic 495 Aerochord 496 Aerochordus 496	Algous 470	Ancestral 414	Associable 471		Blurring 387
Aerochord 496	Alice 470	Anchorage 374	Associate 471	Bestow , 142 Bestowing 242 Bestride 249	Blushfully 406
Aerochordus . 496	Alias 470	Anchored 103	Associated 471	Bestowing 242	Blushing, 406 Blushless 406 Bluster 406 Blusterer 406 Blustering 406 Blustrons 401 Boar 401
Acrogan. 400	Alienable 470	Anchoress 103	Associating 471	Bestride. 949	Blushless and
Aerogan 496 Aeroleline 496	Alienation 470	Anchorite 103	A ssociative 471	Bestriding 549	Bluster 406
Agrapalie 102	Alienator	Anchoring. 103 Auchovy. 103-t06 Ancient. 103-106 Anciently 103 Anciently 103 Anciently 103 Anciently 247 Anderson 247		Betake 949	Blusterer 406
Carownina 190	Alienee 470	Auchory 102.400	Assoil	Betaken	Rhietering 400
Aeropolis	Alienator 470 Alienee 470 Alife 470	Angiout 100 100	Assoil 471 Assoilment 471 Assonance 471 Assonant 471	Rotery 010	Blustrone 400
Acrospired 496	Ame 470	Anciently 103-106	Assonincia 471	Retunial 243	Door 1018 401
Across 496 Acroter 496 Acroterial 496 Acrotic 496 Act 496 Act 496 Actamer 503	Align 470 Aliment 470 Alimental 470 Alimental 470 Alimentally 470	Anciently 103	Assonance 4/1	Batternal	Board 401 Board 401 Boardable 401 Boarded 401 Boardling 401 Board 401
Acroter 496	Ainnent 470	Aneiptai 103	Assonant 471	getrayed 241	роага 401
Aeroterial 496	Anunental 470	Augiron 247	Assuage 471 Assuaged 471 Assuaging 471 Assuaging 471 Assuasive 471 Assuetude 471	peuraying 241	poardable 401
Acrotic 496	Alimentally 470	Andesen 247	Assuaged 471	getroth 241	Boarded 401
Act 496	Allmentary 471	Anemone 247	Assuaging 471	Betrothal 211	Boarding 401
Actamer 503	Allquant 471	Angel 247	Assicisive 471	Betrothing 241	Boast 401
Actegor 503	Allquot 471	Augling 247	Assuctude 471	Belsy 241	Boaster 401
Actian 496	Allye	Angry 247	Assume 471	Bigot 251	Boastful 401
	Alkalf	Angolar 047	Assumed 471	Blgoted	Boast 401 Boaster 401 Boastful 401 Bodlly 397
Aethie 100	Alkaline	Angus 917	Astride 260	Bigolry 951	Bondo 78
Actinic 496 Actiniform 496	Alimentary 4.0 Alimentary 471 Aliquant 471 Aliquant 471 Aliquot 471 Alive 471 Alkali 471 Alkaline 471 Alkaline 471 Alkaline 471 Alkaline 471	Ann 947	Astringe 969	Bilaleral aas	
Aathodd 100	Allen 171	Announce 947	Assumed 471 Assumed 471 Assumed 471 Astride 262 Astringeney 262 Astringeney 262 Astringenty 262	Bestowling 242 Bestride 242 Bestride 342 Bestride 342 Bestride 342 Bestride 243 Bestride 343 Bestride 343 Bestride 343 Bestride 343 Bestride 344 Bes	Rook 407
Actinold 496 Actinolite 496		Audiron 447 Audesen 247 Auchone 247 Augel 247 Augling 247 Augling 247 August 247 August 247 Augus 217 Auu 247 Aunonnee 247 Aunonnee 247 Audiron 10	Astringent 262	Bileduct 406	Rookful 457
Acunonic 496	Allay 471 Allegallon 471 Allege 471	Apter	Astringent 262 Astringing 262 Astrology 262	Bilbo 438 Bileduct 425 Bilge 425 Bllged 425	Book
Actinolitic 496 Action 496	Auegation 471	Aprillated 10	Astrology 000	Bllgod 400	Rooking 457
Action 496	Allege 471	Arbitrate 401	Astrology 262 [ongcu 429 1	DOURISID 457

PAGE.	PAGE.	PAGE.	PAGE.	PAGE.	PAGE.
Boom	Centipede	Chrism	Color	Confidently 110	Consumptive 384
Roomed 457	Centralize 452	Christened 405	Colorable 248	Confiding 110	Contact 384
Roomerang 457	Centrifiteat 459	Christening 405	Colorless 947	Confine 110	Contagion 385
Root 157	Centripetal 452	Christi 406	Colossal 948	Confine	Contact 384 Contagion 385 Contagions 385 Contain 385 Contained 385 Contained 385
Rooted 457	Centriple 452	Christian 405	Colt 248	Confinement 110	Contain 385
Boot 457 Booted 457 Bootli 457	Conturion 452	Christi	Columbine 249	Confiner 110	Contained 385
Postlore 357	Control 459	Christman 405	Column 949	Confirm 110	
Denviling 111	Cornto 459	Christmas 405 Christopher 406	Comp 249	Confirmable 110	Contenut
Brandy 411	Corobus 458	Chronicle 62	Comatose 949	Confiscate 110 Confiscating 110	Contemptible 416
Brayado 411	Coreal 459	Changeraph 62	Comb 245	Confiseating 110	Contemptibly 446
Booth Social Process Social Proces	Centripetal 452 Centriple 452 Centurion 452 Century 452 Certury 452 Certe 458 Cercbis 458 Corcal 459 Cercbral 459 Cercbral 459 Cercbran 459	Chronicle 62 Chonograph 62 Clnekling 63 Clud 437	Calorable 248	Confiscator 110 Configration 110	Contempt 446 Contemptible 416 Contemptibly 446 Contend 446
Reavely 411	Cerebrum 459	Clind 437	Combatant 249	Conflagration 110	Content 446
Dridget 411	Coromont 150	Chuff 427	Combinable 249	Conflict 110	Content
Dinget	Ceremony 459	Chuffnese 436	Combination 249	Conflicting 110	Contentions 446
	Cereous 459	Chuffy 436	Combine 249	Confluence 119	Contentless 446
	Ceres 460	Chuff 437 Chuffness 436 Chuffy 436 Chump 436	Combustible 245	Conflict	Contentions 446 Contentment 446
Calamity 407 Calculate 83 Caldron 83	Cerin 460	Chunk 436	Comedy 249	Conform, 110 Conformable 110	Contents 446 Conterminable 446
Calculate 83	Certainly 460	Church 436	Comedian 945	Conformable 110	Conterminable 446
Caldron 83	Certainness 460	Churk , 436 Church , 436 Churchdom 436	Come 246		Conterminous 446
Caleb 64	Certificata 460	Churching 436	Comet 249	Conformed : 110	Contestant 117
Calf 64	Certified 460	Churchland 436	Cometary 949	Conforming 110	Contest 446
Calibre 65	Certify 460	Churching 436 Churchland 436 Churchman 436 Churlish 436 Churn 436	Comfit 249	Conformed 110 Conforming 110 Conformity 110 Conformity 110 Conformity 110 Confound 110 Confounded 110 Confounded 110	Contest 446 Contestable 446 Contested 147 Contesting 447
Calico 65	Certifude 462	Churlish 436	Coming 246	Conformity 110	Contested 147
Caliph 63	Cessition 462	Churn 426	Comfort 245	Confound 110	Contesting 447
Call 63	Cossible 462	Cider 436	Comfortable 245	Confounded 110	Contest 447
Calling 63	Cession 469	Cider 436 Circumvent 451	Comforted 249	Confounding 110	Contignity 417
Callous 63	Cessment 463	Citable 451	Comic 949	Confront 110	Context
Callow 67	Cessor 463	Cited 273	Comical 246	Confrontant 110	Continent 447
Calorle 106	Cesspool. 463	Citizen 973	Comically 94st	Confront 110 Confrontant 110 Confrontation 110	Continental 447 Continental 447 Contingency 447
Caleriño 106	Cestus 463	Citrate 459	Command 945	Confronted 110	Contingency 117
Cam 452	Cetacean 101	Citron 972	Commander 245	Confronting	Contingent 447
Caunthal 489	Cerebrum 459 Cerement 459 Ceremony 459 Ceremony 459 Ceres 460 Cerim 460 Certin 460 Certified 460 Certified 460 Certified 460 Certified 462 Cession 462 Cession 462 Cession 462 Cession 462 Cession 462 Cession 463	City 973	Combination 290 Combine 240 Combine 245 Comedy 245 Comedy 246 Comedian 346 Comedian 340 Cometary 240 Comit 240 Comit 240 Comit 240 Comit 240 Comforted 240 Comical 240 Commander 246 Commander 246 Commander 246 Commander 246	Confronting 110 Confrontment 110	Contingent 447 Continuable 447
Cannon 489 Cannondale 489	Cetic. 101 Cheaply 152 Cheapness 152 Cheating 152 Cheating 152	Civility 464	Commandant. 246	Confuse 110	Continual 447
Cannondale 489	Cheaply 152	Civilized 465	Commence 245	Confused 110	Continually 117
	Cheapness 152	Civilizer 465	Commencing 945	Confused	Continuance 347
Canoe 489	Cheating 152	Civilizing 465	Comment 246	Confusedness. 110	Continue 447
Cannoe 489 Canonical 489 Canonical 489 Canonical 489 Canonical 489 Cantata 489 Cantation 489 Cantatau 489	Checker 152 Checkmate 153	Cider 436	Commence	Confusing 110	Continual 447 Continually 447 Continually 447 Continue 447 Continue 447 Continued 447 Continued 447 Continuedly 447 Continuing 447
Canon ze 489	Checkmate 153	Clabber 464	Commerce 246		Continuedly 447
Canopy 489	Cheerful 152	Clarify 489	Commercial 246	Confutable 110	Continuing 447
Cantata 489	Cheerful 152 Cheerfully 152	Clarion 243	Commingle 246	Confutation 110	Continuity 447
Cantation 489	Cheerily 152	Clarinet 243	Comminted 245	Confute 110	Continuous 447
	Cheering 152 Cheerlessly 449	Chrissa 243	Commingle 246 Commissary 249 Commission 246	Confuted 111	Continuity. 447 Continuous. 447 Contort. 447 Contorted 447 Contortion 447 Contortion 447
Canter 489	Cheerlessly 449	Clash 244	Commission 246	Confuting 111	Contorted 447
Canterbury 489	Cheesey 449	Clashing 244	Connuit 246	Congeal	Confortion 447
Cantering 489	Cheesey 449 Chemically 449 Chemist 449 Chemistry 113	Class 244	Commitable 246	Onlusion 110	
Capitation 412	Chemist 449	Classed 244	Commital 246	Congelation 111	Contra 447
Canterbury 489 Cantering 489 Capitulate 412 Capitulate 412 Capitulate 412 Capitulate 412 Capitulate 406 Caravan 406 Caravan 406 Cardine 406 Cardine 406 Carcine 40	Chemistry 148 Chempitzer 449	Classle 244	Commitable 246 Committal 246 Commitment 246 Committing 246 Committed 246 Committer 248 Committed 246 Committ	Congener 111 Congeneric 111	Contraband 447
Capna	Chempitzer 449	Classical 244	Cemmitting 246	Cougeneric 111	Contracted 447 Contracted 447 Contractile 447
Capon 412	Chemnitzy 449 Chemritz 449	Classify 244	Committed 246	Congenial 111 Congenital 111	Contracted 447
Captured 379	Chemritz 449	Clatter 244	Committer 246	Congenital 111	Contractile 447
Carabine 406	Cheris. 449 Cheris. 449 Cherishing 449 Cheroqt. 449 Cherryly 449 Chernb 450 Chernbim 450 Chernbim 450	Clatterer 244	Commix 246	Congest 111 Congestible 111 Congestion 111 Congression 111 Congression 111	Contracting 441
Caravan 106	Cherisning 449	Claude 244	Commission 246	Congestible 111	Contraction 447
Cardine 406	Cheroqt 419	Claudia 244	Commode 246 Commodins 246 Commodity 246 Commodore 246 Commoner 246	Congestion 111	Contractor 447 Contradict 447 Contradicted 447
Careru 406	Cherryly 449	Clause 244	Commodions 246	Congression 111	Contradict 447
Careful 246	Cherno 450	Clausure 252	Commodity 246	Congruent 111	Contradicted , 447
Careless 247	Chernolin 450	Clawed 252	Commodore 246	Conically 111 Conifer 111	Contralle 447
Carelessly 247	Chew 462	Clawing 252	Commoner 246	Conifer 111	Contraries 447 Contrariety 447
Careseu 247	Chewing 462	Clawless 252	Commonly 246	Conitorm 111	Contrariety 447
Cheleat 111	Chiefron 402	Clay 252	Community 256	Coniform 111 Conjecture 111	Contrarily 447
Casnistn 111	Chicken tel	Clayed 246	Commute 243	Somon 111	Contrary 447
Cask 412 Casket 111 Caspian 111 Cassock 111 Castaway 111 Castaway 111 Castaway 111 Castaway 111	Chide 401	Clarific 241	Commoder 246 Commoder 246 Commody 246 Commody 256 Commute 243 Commuted 243 Commuted 243	Conjoin	Contrariety 447 Contrarily 447 Contrary 447 Contrast 447 Contrasted 447 Contravenne 447 Contravening 447 Contravention 447
Castinet 111	Chider 401	Charmota 957	Concolor 401 Concomitant 401	Conjointry 111	Contrasted 447
Castaway 111	Chiding 461	Class 957	Concountant 401	Conjointness 111	Contravene 447
Caste	Chief 401	Clonnod	Concord 401	\ on\ngai \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Contravening 447
Castellan 111	Chiefly 463	Clearly 255	Concreture 244	Conjugate 111	
Caste	Cherabin 450 Chewing 462 Chewing 462 Chewing 462 Chiemery 462 Chiedery 461 Chieder 461 Chieder 461 Chieder 461 Chieder 461 Chieder 462 Chiefer 463 Chiefer 463 Chiefer 464 Chi	Clausure 252 Clawed 252 Clawed 252 Clawing 252 Clawing 252 Clayed 262 Clayed 264 Claying 247 Clayish 257 Clayinore 257 Clean 257 Cleaned 255 Cleaned 255 Cleanites 255 Cleanites 255 Cleanites 255 Cleanites 255	Concept	Coningal 111 Conjugate 111 Conjugate 111 Conjugation 396 Conjunct 396 Conjunct 396	Contretemps 447 Contributable 447
Castle 227	Chime 148	Cleanse 255	Concurrence 344	Conjugation and	Contribute 447
Castlery 105	Chimera 148	Cleansed 254	Concurrency 911		Contribute 448 Contributed 448 Contributing 448
Casual 400	Chimerical 148	Clearance 254	Concurrency 344 Concurrent 344	Conjugative one	Contribution to
Castle 227 Castlery 105 Casual 400 Casually 400 Catching 393	Chip 148	Cleared954	Concurring 811	Conjuncture	Contribution 448
Catching 393	Chip	Cleanse 255 Cleansed 254 Clearance 254 Clearance 254 Clearing 254 Clearing 254 Clearness 254 Clearness 254	Concurring 344 Concurs 344 Condeum 353	Conjugation 200	Contributive 448
Catchword 393	Chipping 148	Clearness 254	Condenn 353	Conjure suc	
Catechise 393	Chirp 148	Cleav 254	i Congemning 355	Conjurer 300	Contrite
Catechised 393	Chirp	Cleavage 254	Condenner 353	Conjunctive 386 Conjunctive 396 Conjunctive 396 Conjuration 396 Conjure 396 Conjure 396 Conjure 396 Conjure 396	Contrite
Catechism, 393	Chivalrons 148	Cleave 254	Condenner 353 Condensation 353	Connect 396	Contrition 448
Categorieal 376	Chivalry 148	Cleaved 254	Congcusate 353	Connected 396	Contrivance
ategorize 246	Chocolate 148	Clef 254	Condense 353	Connect	Contrive 448
Casually 400 Catching 393 Catchword 393 Catchword 393 Catchise 393 Catcehise 393 Catcehise 393 Catcyorical 376 Catcyorical 376 Catcyorize 246 Catcyory 246 Calchary 246 Calchary 246 Calchary 246 Calchary 246	Chivalry 148 Chocolate 148 Choice 148 Choir 148	Cent mess 254 Cleav 254 Cleavage 254 Cleaved 254 Cleaved 254 Cleaved 254 Cleaved 254 Cleaved 254 Cleaved 255 Cleav	Condense 353 Condense 353 Condensed 353 Condescend 353	Connive 336 Connivency 396 Connivent 396 Canniver 396	
Calenary 246	Cholr t48	Clergy 255	Condescend 353	Connivency 396	Contriver 448
Catenarian 246	Спеке 148	Clerical 255	Condinient 353	Connivent 396	Contriving 448
Catholical 199 Catkin 199 Cennented 152 Cenneutling 152 Cenneutling 152 Cennelery 103 Cenobile 111 Cenobile 111 Cenotauth 111 Censor 111 Censor 111 Censoral 106 Censurable 106 Censurable 106 Censurable 106 Censurable 107	Choking 148	Client 255	Condition 353 Condite 353 Conduct 86 Conducting 109 Conducting 109	Sanniver 396	Contriver. 448 Contriver. 448 Contriving 448 Controllable 448 Coolly 270 Copionsness 164 Conist 164
Comported 199	Chokhig 148 Choler 148 Choler 148 Choler 151 Choose 151 Choose 151 Choosing 151 Chopier 151 Choral	Cliff 255	[Coudor 86]	Conspire. 246 Conspiringly 246 Conslancy 246 Constantly 246	Coolly 270
Compatible	Cholera 148	Ulimate 255	Conduce 86	Conspiringly 246	Copionsness 164
Complery 152	Chapter 151	matic 255	Conducting 109	Constancy 246	Copist 164
Cenobile 103	Chooser 151	Cmmax 255	CONGUSTION, 102	Constantly 246	Copist 164 Coplant 164 Copperish 165 Coppee 165 Copse 165 Copula 165 Copula 165
Cemobille III	Changing 151	voicae 246		Constituent 246 (Copperish 165
Cenotanh	Chan	C.16.C.1	Conte. 103 Confab 103 Confederacy 109 Confederate 109		Coppice 165
Censor	Chowner 151	Colling	Contab 109	Sonstrain 400	Copse 165
Censorlal 10e	Chous 151	Callielas 248	Comederacy 109	Zonstrainedly 400	Copula 165
Censurable 106	Choral	Collegate ou	Confederate 109	yonstraining 400	Copy 165
Census 107	Chord isi	Colloquial 218		Sonstraint 400	Copybook 165
Census 107 Centage 107 Centallo 108 Centaur 108	Chord	Collogue etc	Confederating 103	Onstruit 400	Copy 165 Copybook 165 Copybolder 412 Copyist 412 Coquettish 383 Coquetting 383
Centallo tas	Chorus	Collusion 248	Confer	constructed 376	Copyisi 412
Centaur 108	Chorus Girl	Collusive 248	Conference 100	onstriction 376	Coquettish 383
	Chose		Confess	onstrictive 376	Coquetting 383
Centennial ros i	Chose	Colou 248 Colouel 218		Constructor 384	Cora 383
Centering 108	Chousing 151 [Calouist 248	Confessing 109	Constructure 384	Coral 383
Centering 108 Centesimal 108	Chowder 152	Colonizing 948	Confident	Congulato 384	Coralite 383
Centigrade 108 Centime 108	Chowder 152 Chrismal 152 Chrismath 152	Colonist 247 Colonizing 248 Colonnade 48 Colony 247	Confessor 109 Confident 140 Confide 110 Confide 110	Consular 384 Consulate 384 Consulmnate 381 Consumption 384	Coral 383 Coralite 383 Coraline 383 Coralloid 383 Corant 383
Centime 108	Chrismath 152	Colony 247	Confidence 110	Consumption 384	Corent 200
					-ram

2100	Pier	2102	PAGE.	PAGE.	PAGE.
Corcule 383	PAGE.	PAGE	PAGE.	PAGE.	PAGE.
Corenie 383	Criminating 226	Diagonal 432	Elated 435	Emutating 422	Engraved 44
Cord 383	Cutlibert 226	Diagram 432	Flation 435	Emulation 422	Engraven 44
Cordage 383	Criminating 226 Cutlibert 226 Cynthia 226	Dial 439	Fibow 435	Emulation 422 Emulator 431	Engraven 44 Engravement 44
Cord 383 Cordage 383 Cordate 383	C)	Distant too	Flaton	Emiliator	L'accommissed 44
Cornate 353	_	Dialect 432	Engerty 435	Emulgent 431	Engraving 44
Corded 383	D	Dialogue 247	Fidest 435	Enrulsion 431	Engross 44
Cordelia 383		Diameter 247	Fleet 435	Emplaire 431	Engrossed 44
Cordinl 982	Dab	Dimound 217	Electing 426	Exclus 431	Engrossing 44
Corduil 383 Cordial 383 Cordially 383 Cordon 383 Cordovan 383 Cordwain 383 Cordwain 383 Cordwain 383		1714HOHQ 211	131CCC 1111g 430	Emulsive 431 Enable 431 Enabling 431 Enact 431 Enacted 431 Enacted 431 Enacting 431 Enacting 431	Engross 44 Engrossed 44 Engrossing 44 Engrossment 44 Enguard 44
Cordiany 383	Dabble 414	Discerned 378	Election 433	Enabung 431	Engrossment 44
Cordon 383	Daft 414	Discerning 21	Electioneer 433	Enact 431	Enguard 44
Cardovan 202	Dagger	Discorningly 91	Floator 122	Engeted 421	Enoulf 44
O linear 100	Dagger 414	Disconnight 21	13100101 433	Enacted 201	Econolical 1
Corduroy 383	Daily 414	Discharged 21	Electrity 437	Enacting 431	Enginea 44
Cordwain 383	Daintily 414	Discharging 21	Elias 437 1	Enactive 442	Engulfing 44
Corelation 383	Driev 114	Discharelt 22	Filiah 198	Enactive 442 Enactment 444	Engulf 44 Engulfed 44 Engulfing 44 Engulfing 44
Carlona	1 But 2	Diselemental	1215-1-040		Enlange 41
Corinne 383 Corinthian 383	Dabble 414 Daft 414 Dagger 414 Daily 414 Daintily 414 Daisy 414 Daker 419 Dally 414 Damaging 414 Damagings 414 Damasks 414	Discerned 378 Discerning 21 Discerningly 21 Discharged 21 Discharging 21 Dischurch 22 Dischurched 22 Disciple 22	Electioneer 433 Elector 433 Electrify 437 Elias 437 Elijah 438 Eliminate 438 Elite 434 Elixir 438	Enactor	Enhance 44 Enhanced 44 Enhancement 44 Enchancer 44
Corinthian 383	Date 414	Disciple 22 Discipline* 22 Disciplined 23 Disclaim 23 Disclaimer 23 Disclaimer 23	Elite 434	Enamel 444	Ennanced 44
Cork	Dally 414	Discipline 22	Elixir 438	Enameled 444	Enhancement 44
Corkserew 305	Daniage 414	Disciplined 23	FIE 438	Frameling 444	Enchancer 44
Carles	Dannadas 114	Disclaim 23	Ell. p 499	Engineer 441	Followeine 41
Corky	Damaging 414	Disciaim 23	Eiten 438	Enamor 414 Enamored 414 Enamoring 414	Enhancing 44 Enharder 44 Enharden 44
Cormorant 109	Damask 414	Disclaimer 23	Elliptic 438	Enamored 444	Enharoor 44 Enharden 44
Corn 109	Daton 158	Disclose 22	Flm 417	Enganoring 444	Enharden 44
Cornes 100	Damp 158 Dampness 158	Discolor 23	Elemento 417	Fucage 42	Enigma 44
Cornea	Dampiless iso	17150 0101	Bioligate 411	Encage 42 Encaged 42	Enigmatic 44
Corn 109 Cornea 109 Corned 109 Cornetia 109 Cornelius 109 Cornelius 109	Pamset 158	Disclose 22 Discolor 23 Discomfort 23 Discomfortable 23	Elopement 417	Fileageu 42	Enigma 44 Enigmatic 44 Enigmatize 44
Cornetia 109	Dance 159	Discomfortable 23	Eloquence 418	Encaging 42	Enigmatize 44 Enjail 44
Cornelius 100	Dancer 159	Discomforted 23	Floriuent 418	Encamp 42	
Corner 109	Danainer 150	Disconforting 23	Elixir 488 Elk 438 Ellen 438 Ellien 438 Elliptic 438 Elm. 417 Elongate 417 Eloquence 418 Eloquent 418 Elsewhere 419 Elude 469	Encluin 42	Enjoin 41
Corner	Dancing	Discontioning 25	Disconticle 413	Enchained 42	12.1.1.1.2.3
Cornetey 109	Dangity 159	Discomforting 23 Discommend., 24-102	Etude 469	Encamp	Enjoin 44 Enjoined 44 Enjoining 44 Enjoinment 44
Cornetey 109	Dandle 381		Elvira 469	Enchaining 42	Enjoining 44
Cornish 109 Cornucopla 109	Dandy 381	Discredit 98	Emaciate 469		Enjoinment 44
Cornucanla 109	Danger 291	Discrept 98	Emperated 400	Enchant 49	Enjoy 44
Corolland Corolland	Daminess 158 Damisel 158 Damee 159 Dameer 159 Dameing 139 Damdity 159 Damdie 381 Damger 381 Damgeron 381 Damgine 381	Discounties	Elade 469 Elvira 469 Emaciate 469 Emaciated 469 Emaciated 469	Enchant 42 Enchanted 42	Enjoy 44 Enjoyable 44
Coronary 100	pangerous 381	Diserction 98	Emanemate 463	raichanted 42	Enjoyable 44
Corona 109	Dangling 381	Discredit	Emanate 469 Emanaled 469	Enchanting 42	Enjoyed 44
Coronal 109	i Daniel 381		Emanaled 469	Enchantment 42	Enjoying 44
COPONIEV 100	Dantier	Donald 98	Engineties 100	Enchase 42	Enjoying 44 Enjoyment 44
Campan 103	(All Proj	Dorens 98	E managed 400	Enchased 42	Enkindle 43
Cornucopla. 103 Corollary. 109 Corona 109 Coronal. 109 Coronary. 109 Coroner 109 Corporal. 109 Corporal. 109 Corporal 109 Corporate 109 Corporation 109 Corporation 109 Corporation 109 Corporation 109	Dangerous 381 Daniel 381 Daniel 381 Dapper 381 Dapper 381 Darper 381 Daring 381 Darknes 381	Doreas 38	Emanation 469 Emancipate 469 Emancipator 469	Enchase	
Corporat 109	Dare 381	Dorinder 98	ranancipator 469	Enchasing 42	Enkindled 43
Corporally 109	1 Daring 381	Dunean 98	Emancipist 469 Emanuel 469 Emarginate 469		Elikiuuling 43
Corporate 100	Darkon 201	Diddiction 1711111111	Engineed 169	Encompass 42	Enlargement 43
Corporate 100	17.11 KCH	-	Emander 405	Encompased 42	Palan 15
Corporation 102	Darkness 381	E	Emarginate 469	Encompased 42	F.III.a.y
Corpulence 109	Darling		Embassy 469 Embedded 469 Embellish 469	Encompassing 42	Enlight 43
Corpulent 109	Dart 381	Eagerness 179	Embedded 469	Encore 42	Enlighten 43
Contractive 103	Dantad 201	12 do 100	Emballish 460	Engaporter 42	Enlightened 43
Constants	Darted	13.1810 13.0	12 1 100	Fuggeraturing 10	Enlightening 43
Coruscate 210	Dash 381	Ear	Empers 469	Encore 42 Fincounter 42 Encountering . 42	Enlayen 15 Enlight 43 Enlighten 43 Enlightened 43 Enlightening 43 Enlightening 43
Corvette 153	Dating 163	Earldom., 163	Embezzle 469	Encourage 42	Enlightment 43
Cosmetic 153	Dative 163	Earn 163	Embers 469 Embezzle 469 Embolden 469	Encouraging 42	
Corpulent 109 Corrective 103 Corrective 210 Corvecte 153 Cosmet 153 Cosmic 153 Cossick 153 Costing 153 Couch 153	Darling 381 Dart 384 Darted 381 Dash 381 Dash 381 Dating 163 Dating 163 Dative 163 Dative 457 Dayting 457 Daytine 457 Daytine 427 Deacon 426 Deaconess 239 Deaden 239	Eagerness 179 Eagle 190 Ear 190 Ear 190 Earn 163 Earn 163 Ease 166 Easel 167 Easement 168 Easthus 167	Embosom 469	Eneradle 42	Enlist 43 Enlisted 43
Corrupt 152	David 159	Paral 107	Emborood 948		Enlisted 43
COSSICK 155	David 492	Easer 107	Embossed 248 Embossment 248	Intermison 42	Pallatian 40
Costing 153	Dawning 157	Easement 168	Embossment 248	Fneroach 42 Encroacher 42	Enlisting 43 Enlistment 43
Conch 153 Conchant 153	Day:	Easily 167 Easiness 168 Easing 168 Fact 175	Embottle	Encroacher 42	Enlistment 43
Conchant 153	Daytime 426	Easiness 168	Embottled 248	Encroaching 42 Encroachment 42	Enliven 43 Enlivened 43 Enlivening 43
Cough 153 Counterplot 14 Counters 14	Duzzlo 497	Fusing 168	Embottling 473	Fueroschment 49	Enlivened 43
Cough 133	Dazzie 421	Easing 108 East 175 Ebenezer 175 Ebenezer 175 Ecliptic 181 Economy 183 Ecstatic 239 Edda 184 Eddy 184 Edden 184 Edgar 185 Edge 185	Lillootting 415	Parental III	Entiremina 40
Counterplate 14 Countess. 14 Counting 18 Country 18 Coupe 489 Coupling 489 Coupon 489 Courtly 95 Courtly 95 Cousin 412 Cove 412	Deacon 420	East 173	Embracing 473	Encumber 42 Encumbering 42	Finite Inng 43
Countess 14	Deaconess 239	Ebenezer 175	Embrasure 473	Encumbering 42	
Counting 18	Deaden 239	Eclintic 181	Embrave 473	Encumbrance 42	Enmity 43
Country 18	Dandly 240	Foonomy 183	Embroglio 473	Endamage 42	
Country to	Deathy 200	Economy 100	B. Landing 415	Endanger 42	Enoch 43
Compe 489	Deaden 239 Deadly 239 Deadness 207	Eestatie 233	Finitiastife		
Coupling 489	Deaf 207	Edda 184	Embroil 473	Endear 42 Endearing 42	Enormity 43
Common 489	Deafen 207	Eddy 184	Embryo 473	Endearing 42	Enormous 43
Courtly 05	Danfmare 907	12.1.00	Embrania 472	Endearment, 42	Enrago 42
Country 35	Deathess 201	Editi	i initiationica 475	Endeavor 42	in the contract of the contrac
Cousii, 412	Deat 207	Edgar 189	Emerge 410		Enraged 43
Cove 412	Dealing 207	Edge 185	Emergency 473	Endeavoring 42	Enrank 43
Covenant 412	Deanery 207	Edgewise 185	Emerging 437 Emersion 248	Endless! 42 Endlessly 42 Endlessness 42	Enrank
Coventry 153	Doborah 207	12.111140 185	Emersion 948	Endlosely 49	Furanking 43
Cowart	13 .16	12.15.4	Dimension 219	Endlessness 42	
COVERT 153	beadness 207 beaf 207 beafen 207 beafness 207 beal 207 beal 207 bealing 207 bearing 207 beborah 207 belia 207 benis 207 bepress 207	Fanct 180	Emeric. 248 Emigrant 248 Emigrate 248 Emigration 248	Endicesiness 42	Eurapt.
Covertiy, 153	Denis 207	Editice 186	Einigrant 248	Endow. 42 Endower 42 Endowing 42	Enrich 43
Coverture 153	Depress 207 Depression 207	Edify 186	1 Emigrate 248	Endower 42	Enriched 43
Covet 153	Depression 207	Edifying 186	Emigration 948	Endowing 42	Enriching 43
Covoted 153	Domeiro 207	12.110	Emile 248 Emily 473	Endowment 42	Enrichment 43
Constin	1 170 1710	12.1141	12		Enrichment 43 Enring 44
Coveting 153	Depriving 207	Edition 160	Emily 473	Endurance 42	Enring 44
Covetous 153	Depth 280	Editor 158	{ Eminence 291	Endure 42	Eurobe 44
Courish 412 Cove 412 Covenant 412 Coventry 153 Coverty 153 Coverty 153 Coverture 153 Coverture 153 Coverture 153 Coverture 154 Coveting 154 Coveting 154 Coveting 154 Coverture 153	Deprive 207	Edear 185 Edge 185 Edgewise 185 Ediber 186 Ediber 186 Ediber 186 Ediber 186 Edibying 186 Edibying 186 Edibying 186 Edibying 186 Edibon 190 Editor 138 Edmond 138	Eminent 291 Eminent 419 Emmetine 419 Emissary 422	Endure 42 Endure 42 Endured 42 Enduring 42 Endwise 42 Enema 15 Enemy 43 Energy 43	Enring 44 Enrobe 44 Enrohing 44
Coward 153	Deputy 409	Edua 151	Emmotine 419	Fudurit.o 49	Foroll 44
Carrardice 150	1) 100	P.Juanto 177	Parkenger 100	Endwise 42	Enroll 44 Enrolled 44 Eurollment 44
Costartice 153	17crange 468	Fourcate isl	Emissary 422	1.110 WISC 42	Bironea 44
Cowardly 153	Deranged 468	Equeation 151	Emotion 442	Enema 15	Eurollment 44
Crab 153	Deranged 468 Derangement 468 Deretiet 468	Fdward 151	Emotion 442 Emotional 442	Enemy 43	Enroot 44
Crab-apple 153	Deretiet 468	Edwin 111	Emotive	Energy 43	Enroot 44 Enrooted 44 Enrooting 44
Crabbod 153	Darida 60	100 cost	Empela	Enervate 43	Enrocting
Cartheolic 155	1 Period 408	1.ncet	Paripate 441		Emouting 44
Crappenty 153	Deriding 468	raceted 386	rimpaica 441	Enervated 43	Enseal 44
Crabby 153	[Derision 458	Effective 386	Emotive	Enervating 43	Enshield, 45
Cowirdin 153 Craib 153 Craib-apple 153 Craibbed 153 Craibbed 153 Craibbed 153 Craibbed 153 Craibbed 153 Craibk 153 Crack 153 Crack 153 Cracker 153 Cracker 153 Crackler 153 Crackler 153 Crackler 153 Crackler 153 Crackler 153	Deride	Education 151 Fdward 151 Edwin 441 Effect 385 Effective 386 Effective 386 Effective 444 Effection 444 Effection 434	Empaling 441 Empanel 441 Empassion 441 Emperor 441 Emplasis 441 Emphasis 441	Enervating 43 Enervation 43	Enrooting 44 Enseal 44 Enshield 45 Enshrine 45 Enshroud 45
Crafflend 159	Davise	Ettort 121	Engranal 441	Enfamish 43	Enshroud 45
Caratras 150	Dellite 400	Pur automi (1)	Protection 101	Lafooble to	Production 15
CIACKET 153	T Perro ing 408	Entrophery 434	Empassion 441	Enfamish 43 Enfectle 43 Enfectled 43	Ensign 45 Ensigney 45
Cracking • 153	Derogation 468	Enuigent 434	Emperor 441	Enfeebled 43	Ensigney 45
Crackle 153	Derogalory 468	Effuse 434	Emphasis 441	i Enfechlement 43	Enslave 45 Enslaving 45
Crackling 153	Desnotte and	Effusion 434	Emphasize 437	Enfetter 43	Enslaving 45
Cradla	Derivation 468	Kittoslan tos	Emphasize 437 Emphasizing 437	Enfetter 43 Engender 43	Enetto 15
Cradlad	1 Description 400	Valout 105	Universe 400	Engender 43 Engendered 43	Vacadae 45
Craqieu 153	1 Destination 468	Egoert 435	Embiro 437	ingenoered 43	Ensuing 45 Entail
Cradling 153	Destine 468	Egg 435	Empiric 437	Engendering 43	Entail 45
Crackle 153 Crackling 153 Craulle 153 Craulle 153 Craulle 153 Craulle 153 Craulle 153 Crauge 151 Craugey 151 Crampling 151 Crampling 151 Crassed 407	Destiny . 468	Enusive 435 Egbert 435 Egg 435 Egotism 435 Egotist 435 Egress 435	Empire 437 Empirie 437 Empiric 437 Empirical 437 Employable 437	Engild	
Cramod	Destiny 468 Destitution 468	Firstist 195	Employable 427	Eugineering 43	Entailed 45 Entailing 45 Entailment 45 Entangle 45 Entangled 45
Crimera 131	Don there	Parameter 195	Employer 437	Engluery 43 English 43 English 43 Engloom 43	Entailment
Ставду 151	Destroying 468 Destructible 468 Destructive 468 Destructive 468	Egress	Employer 437	Discharge control 43	Badannient 45
Crainp 151	Destroying 478	Egyptian 435	Employing 437	Engird 43	Entangle 45
Cramping 151	1 Destructible 468	Either 435	Empoison	English 43	Entangled 45
Creased 407	Destructive as	Firet 435	Enquisoned 437	Engloom 43	
Creased 407 Creasing 375	Describeration 100	I Whatai 199	Enquironing too	Engorge 43	Entangling 45 Entering 45
Teasing 375	Desuriory 468	1 (decina 445)	Linguisming 433	Engorge 43 Engorged 43	Entering
Crecy 375	Detach 468	Ejecting 435	ranpowering 432	Engorgeo 43	Enterpriso 45
Cricket	Detection 270	 Ejection 435 	Empress, 432		Enterpreser 45
Cricketer 996	Devouring 100	Firetment 435	Emptied 422	Engorging 41	Enterprising 45
Crecy 375 Cricket 375 Cricketer 226 Crler 226	Deserv	Elaborate 435	Empress	Engrall 41	
California and a 220	1 15.00 / 10.00 10.00	Plant of the second second	L'imperie	Engrain 41	Knthrono
Crime, 226	Dexter 432	r.iapse 435	1 Empty 423	tangtain 41	Latin one 45
Crlme	Dexterity 432	Etastle 435	Emplying 423	Engorging	rathroned 45
Crlininal 226	Dexterous 432	Elasticity 435	Empurple 423	gograppie 44	Enthronement 45
Criminal 226 Criminato 228	Destrictive 468 Desultory 468 Detach 468 Detection 270 Devouring 406 Dewy 432 Devterity 432 Devterous 432 Diadem 432 Diadem 432 Diadem 432 Diadem 432 Destrictive 432 Diadem 432 Diadem 432 Destrictive 432 Diadem 4	Elapse	Empty. 423 Emptying. 423 Empurple 423 Emulato 423	Engrapple 44 Engravo 44	Enthrone 45 Enthroned 45 Enthronement 45 Enthroning 45
	1	4	1	1	,

PAGE.	PAGE.	PAGE.	PAGE.	PAGE.	. PAGE.
Enthusiasm 45	Ethics 65	Excreted 17	H	Hanghty 225	Immerging 354
Entbusiast 45	Ethics 65 Etiquette 66	Exereting 17 Excretion 17 Exerctive 17 Exerctory 17 Exerciate 18	11 .	Haunt 225 Hannted 487	Immeshing 354
Patient Co.	Enquette 60	Excitting 17	Habit 473	Haunted 497	Imminent 254
Entice 45	Engenie 66 Eulogist 66 Enlogize 155	Excretion 17	Habitatian 470	Haunting 407	Immiuent 354
Enticement 45	Emogist 66	Excreuve 17	Habitation 473 Habited 473 Habitual 473 Habitude 473	Haunting 487	Immingle 354
Enticing 45	Emlogize	Exerctory 17	Habited 473	Havoe 487	1mmix 354
Enticing 45 Enticingly 45	Eulogy 155	Exeruciate 18	Habitual, 473	Hawk 487	Immix 354 Immixed 354
Entireness 45	Emphony 61		Habitude 473	Hawking 487	Immixing 354
Futireness 45 Entitle 45	Europe 62	Excursion 79	Hack: 473	Hazard 487	Immixing 354 Immoderate 345
Entoil 45	Eulogy 155 Euphony 61 Europe 62 European 62	Excursion 79 Excusably 46	Hack	Hazarded 487	Immodest 345 Immodestly 345
Entrance 45	Eustace 66	Excuse. 46 Excuser 45 Excusing 45 Execute 45 Executed 45 Executing 45 Executing 45	Hackney - 473	Hazarding 487	Immodestly 345
Entrance 45 Entranced 45	Eva 67	Excuser 45	Haddock 473	Hazardone 487	Immolate345 Immolated345
Patradiced 45	Evacuate 51	Evensing 45	Hudoc 479	Hulon 407	Immolated 245
Entrap 45	Evacuate 71	Excusing 45	Hautes 470	Hopey 407	Immolated 343
Entreat 45	Evaenated 71	Execute 45	Haggard 473	nenry 487	Immolating 345
Entreat 45 Entreated 45 Entreating 45	Evacuating 71	Executed 45	Haggardiy 473	Herbert 250	Immolation 354
Entreating 45	Evade 71	Executing 45	Haggle 473	Horatio 250	Immora1 354
Entwine 15 Entwined 15 Entwining 15	Européan 62 Enstace. 66 Eva 67 Evacuate 71 Evacuated 71 Evacuating 71 Evaded 71 Evaded 71	Execution 45 Executioner 45	Haggled 472	Hawk 487 Hawking 487 Hazard 487 Hazarded 487 Hazarding 487 Hazarding 487 Hazardons 487 Helen 487 Herbert 250 Horatio 250 losea 261 Huldan 251 Humphrey 351	Immoral 354 Immorality 354 Immortality 354 Immortalize 354
Entwined 15		Executioner 45	Haggling 472	Hugh 251	Immortality 354
Entwining 15	Evangelic 73	Executive 45	Hailing 472	Huldan 251	Immortalize 354
Epicure 15 Epidemie 15 Epidemieal 15	Evangelist 73	Executor 46	Hailstone 472	Humphrey 251 Hyattsville 409	Immovable 354 Immovably 345
Enidemie 15	Evaporate 73	Executory 46	Halberd 479	Hyattsville 409	Immovably 2.15
Epidemical 15	Evaporated 73 Evaporated 73 Evaporating 73	Executory 46 Executress 46	Unleven 479	Hyndman 409 Hyndsville 409	Immure 045
Epigram 15	Distriction 70	Exemplary 46	Trailbut 470	Limdoville 400	Initial C
Equal 15	Evaporating, 73		Dalliand 170	riynusvine 409	11000 mg 345
	Evasion 73 Eve 93		namaru 472	_	1mpair 345
	Fve	Exemplifying 41	Halter 472	1	Impaired 345
Equality 15 Equalizing 16	Eveline 94	Exempt 41	Halting 472	·	Impairer 345
Equalizing 16	Even 93	Exempt 41 Exempted 41	Halving 472	I beria 409	Impairing 354
Equalness 281	Eve. 93 Eveline 94 Even 93 Evening 95 Evenness 87	Exempting 41	Ham 472	Ibex 136	Impale 354
Equation 281	Evenness 87	Exercise 41	Hamble 472	Ibis 136	Impalement 354
Equinox 281	Event	Exercised 41	Haddock 473 Hados 473 Hados 473 Hados 473 Haggard 473 Haggard 473 Haggle 472 Haggled 472 Haggled 472 Haggled 472 Hallane 472 Hallane 472 Halland 472 Halloyd 472 Halland 472 Hamble 472 Hamble 472 Hamble 472 Hamnock 472 Hamnock 472 Hamnock 472 Hamnock 472	Iberia 409 Ibex 136 Ibis 136 Icamole 409	Immovably 345 Immure 345 Immure 345 Immuring 345 Impair 345 Impaire 345 Impairer 345 Impairing 354 Impairing 354 Impairent 354 Impartial 354 Impartial 354 Impartible 334 Impartible 334
Equity 281	Eventful 79		Hanmering 479		Impartible 354
Equivalent 281	Eventual 79	Exert 41	Hammoek 479	Iceberg 136	Imparting 954
Equivocal 201	Everglade 79	Exert	Hanner #70	Iceberg 136 Icelander 136	
Fradiente nos	Evergreen 70	Everting	Hamper	Totale 100	Imposed
Fradiosted oct	Everlasting 79	Evention 44	Hampionium 472	Icicle 136 Icy 136	Impracii
Emdlestine 281	Evermore 79	Exertion 41 Exertment 41	Hampering 472	10y 136	impeached 345
Eradicating 281		Exertment 41	manistring 472	1tta 136	impeacher 345
nrase 289		Exhal	Hanaper 472	1 qana 409	impeaching 345
r.rased 289	Every 79	Expalent 20	Handeuff 472	1 qeal 136	Impartment
Equinox 281 Equity 281 Equity 281 Equivalent 281 Equivalent 281 Eradicated 281 Eradicated 281 Eradicating 281 Erase 280 Erasenent 289 Erasenent 289 Erasing 289	Every 79 Evict 79 Evicted 79 Evicting 79 Eviction 79 Exac 433 Exact 79	Exhal	Hamstring 472 Hanaper 472 Handcuff 472 Handcuffed 472	Ida 136 Idalia 409 Ideal 136 Idiom 136	Impearl
Erasing 289	Evicted 79	Exhale 20	Handfast 472	Idiot 126	Impearled 354
Erasure 289	Evicting 79	Exhalement 20	Handfast 472 Handjeraft 472	Idiotic 164	Impearling 353
Erect 289	. Eviction 79	Exhaling 20	Handiness 472	Idiot	Impede 353
Erected 291	Exac 433	Exhaust 20	Handle 472	Idler 104	Impeded 353
Erecting 288	Exact 79	Exhaust. 20 Exhausted. 20	Handle 472 Handling 472	Idlewild 409	Impeding 252
Erasing 289 Erasure 289 Erect 289 Erected 291 Erecting 288 Ermine 288 Ermine 288	Exact	Exhauster 20	Haunah 479	Idling . 104	Impeditive ata
Erode. 288 Eroded 288 Eroding 288 Erosion 288	Exacting 79 Exactness 61	Exhausting 41	Hannah 472 Handscrew 472	Idler	Impel
Eroded 288	Exacting 79 Exactness 61	Exhaustion . '41	Handsome 472 Handsomely 472	Idolater 136	Impelled 252
Eroding 288	Exactor 61	Exhaustive 41	Handsomely 479	Idolatrose 136	Impellent
Erosion 288	Exactor 61 Exaggerate 61	Exhaustment 41	Hang 472	Idolize 354	Impenued . 252
	Exaltation 61	Exhibit 41	Hauged . 472	Ignacio 409	Impenuing 959
Erratle 289	Exalted 60	Exhibit	Hanging 472	Trenous 354	Impercentible 353
Escalade 76	Exalting 60	Exhibiting 41	Hang 472 Hanged 472 Hanging 472 Hangman 472	Ignite 354	Impearling 353 Impeded 353 Impeded 353 Impeding 353 Impeding 353 Impeditive 353 Impelled 353 Impelled 353 Impellent 353 Impenind 353 Imperion 353 Impercoptible 353 Imperc
Erratic 289 Escalade 76 Escapade 76	Examination 60			Ignited 354	Imperfectly 353 Imperfectness 358
Escape 76	Examine 60	Exhibitive 41	Hanker 472	Igniting 345	Imperfectness 353
Escape 76 Escapement 76	Examine 60 Examined 61	Exhilarate 41	Hankering 472	Ignition 345	Imperforate 353
Escaping 76	Examining 60	Exhibitive 41 Exhibitive 41 Exhibitive 41 Exhibitive 41	Hanker 472 Hankering 472 Hapless 472 Hapless 472 Haply 473 Happening 473 Happening 473	Ignoble 345	Imperforate 353 Imperishably 354 Impersonate 354 Impersonated 354
Escarp	Example 80	Exhort 41	Haply 473	Ilion 409	Impersonate 354
Eschew 76	Exasperate 80	Exhorted 41	Happen 473	Illbred 345	Impersonated 254
Escort 76	Exasperated, 80		Happening 473	Illicit 345	Impertment 354 Impertmently 354
Escorted 75	Excavate* 80	Eximine 41	Happilly 473 Happilly 473 Happiness 473 Happy 473 Harangue 473 Harangued 473	Illicitly 345	Impertinently 354
	Excavated 80	Exhuming 41	Happiness 473	Illiopolis 409	Impervious 354 Imperviously 354
Escrow 75 Esculent 75	Excavating 80	Exile	Happy 473	Illiterate 349	Imperviously 354
Escutcheon 75	Excavation 80 Excavator 80 Exceed 80	Exilement 41	Harangue 473	Illindged 349	Imperviously
Escutcheon 75	Excavator 80	Exiling 41	Harangued 473	Illogical 349	Impiously 954
Especial 76	Exceed 80	Exist 41	Haranguing 473	Illude 349	Impich 951
Espousal 76		Exist	Harasa 472	Image 349	Implacable use
Espanse 76	Exceeding 80	Existent 41	Haraceing 479	Innered 940	Implacable 350
Espoused 74	Exceeding 80 Exceedingly 80	Existing 41	Harass 478 Harassing 473 Harbinger 473	Imhaeile 210	Implant 300
Espectation Fisher Fishe	Excel 80	Exit 41	Husbas 470	Impositive as	Implant
Pauving 71	Excelled 80 Excelled 80 Excellence 80	Evode 41	Unrhomore 478	Impedinty 349	implicated, 350
Risoniles 74	Excellence 90	Exodus 41	11a1borage 4/3	Imbed 349	implicating 350
Essay	Excellency 80	Evonuento 41	Harborina 448	imbedded 349	Implant 350 Implicated 350 Implicating 350 Implication 350 Implication 350
Essay 74 Essay 74 Essayed 74	Excellency 80 Excellent 80 Exceptions 25	Exodus 41 Exonerate 41 Exonerated 41	Harbor 473 Harbor 473 Harborage 473 Harborer 448 Harboring 448 Harboriess 448	impedding 349	implicative 350
Essaying 75	Exceptions 25	Exonerated 41	Harnoriess 448	1mpiber 349	Implicit 350
Recourse 78	Exceptions 25	Exotic 41	mardened 448	Imbibing 349	Implicitly 350
Recontlat	Exceptive 83 Exceptless 83	Expand 44	Hardened 448 Hardening 448	1mbitter 349	Implunge 350
Essentially 73	Exceptiess 83	Exotic 41 Expand 44 Expanded 41 Expanding 41	Hardiest 448	Imbittered 349	Implicative 350 Implicative 350 Implicity 350 Implicity 350 Implunge 350 Imply 350 Implying 350 Implying 350 Impocket 350
Establish 80	Excising 98 Excision 98	Expanding 41	Hardihood 448	Imbittering 349	Implying 350
Established 80		Expanse 41 Expansion 41	nardness 250	Imbody 349	Impocket 350
Established 76	Excitation 93	Expansion 41	Hardship 250	Imbosom 349	Impoison 850
Establish 80 Established 76 Estate 76 Estate 76	Excitative 93 Excitatory 94	Expansive 41	Hardly 448	Imbound 349	Impoisoned 250
	Excitatory 94	Expatiate 41	Hardiest 448 Hardihood 448 Hardihood 448 Hardness 250 Hardship 250 Hardly 448 Harelip 250 Harelipped 250 Harelipped 250	Idolater 136 Idol	Impoison 350 Impoisoned 350 Impolicy 350 Impolite 350 Impolitely 350 Impolitely 350
Esteemed 76	Excite 93	Expectant 41	Harelipped 250	Imbowed 349	Impolite 350
Esteeming 76	Excite 93 Excitement 93	Expectorate, 41	Harem 250	Imbowing 349	Impolitely 250
Esthetie 76	Exciter 94	Expedient 41	Harem 250 Harecot 250	Imbowment 349	Impolitic 351 Impoliticly 351
Estner 76	Exciting 96	Exped to 41	Haircat 250	Imboy 349	Impoliticly
Estimable 76	Exciter 94 Exciting 96 Excitingly 96	Ezekiel 41 Ezra 41	Harleonin . 250	Imbowing 349 Imbowment 349 Imbox 349 Imbox 349 Imitable 349 Imitable 349	Import 051
Estimate 77	Exclaiming 94	Ezra 41	Harm 199	Imitate 349	Importable 951
Estlettle 76 Esthettle 76 Esther 76 Estlmable 76 Estlmate 77 Estlmated 77 Estlmating 77 Estlmation 77	Exclaiming 94 Exclamation 106		Harm 199 Harmed 199	Imitate 349 Imitate 349 Imitation 349 Imitating 349 Imitative 350 Imitator 550 Immaculate 350	Import, 351 Importable, 351 Importance 351
Estimating 77	Exclamalive 97	r	Harmful 199	Initatine 349	Important of
Estimation 77	Exclamative 97 Exclamatory 97	F	Harmful	Imitative eso	Important 351 Importantly 351
Estimative 77	Exclude 97	Fanatie •oo	Harming 199	Imitator	Importation of
Estrange 63	Exclude	Fanny 102	Harmless. 199	Immaculate 950	Imported 351
Estrango 63		Fanatic 102 Fanny 280 Farm 102 Ferdinand 257	Harmless 199 Harmlessly 227 Harmlessness 227	Immanacle 350	Importantly 351 Imported 351 Imported 351 Importer 351
Estranged 62	Exemsion 97	Kardinand	Harmlessness 997	Immature are	Importer 351
Estray 77	Exclusively 97	Ferons 257	Harmonic 227	Immatured 950	Importung 351
Estreat 77	Excreable 86	Fergus 256 Flora 256	Hastiness 224	Immaturely ero	Importing 351 Importune. 351 Indent 348 Indented 348 Independence 409
Etch	Exercate 86	Frances	Hasty 994	Inmaturity sea	Indonted 22
Etched 77	Excreate 86 Excreation 86	Francis 270	Hatchway 904	Immemorial eso	Independence 348
Estimating 77 Estimation 77 Estimation 77 Estimative 77 Estrange 63 Estranged 62 Estray 77 Estraged 77 Etched 77 Etching 77 Etchi	Exerement 17	Francis	Hateful 904	Immature 350 Immature 350 Immatured 350 Immaturely 350 Immaturity 350 Immemorial 350 Immemorial 350	Independence 409
Eternal 77	Exerement 17 Excremental 17	***Cuciica 270	Hatefully 204	Immensely 350	
Eternally 67	Excrescence 17	G	Hasty 224 Hatchway 224 Hateful 224 Hatefully 224 Hatefulless 225 Hattook 225	Immensity 250	Indian 348 Indianola 409
Eternally 67 Eternity 67 Ether 65	Excrescont 17	_	Hattock 225	Imperge 354	Indicate 409
жинег 65	Excrete 17	Gertrude 412	Hattock 225 Haughtiness 225	Immensity 350 Immerge 354 Immerged 354	Indicate 348 Indignant 348

PAGE.	PAGE.	PAGE.	PAGE-	· · PAGE.	PAGE.
Indignation 348	Toenor des	Dovialty	PAGE	Liniment	PAGE.
Indignity 348	gasper 485	JOVIANY 484	Ladynke 266	Liminent 224	Loveliness 200
Indignity 348	Jaspoid 488	Joy 484	Lauger 289	Linking 224	Loveloru 200
Indignity 348 Indirect 348	Jasper 388 Jaspoid 488 Jaudou 410 Jaundice 488 Javel 488 Javel 488 Javel 488 Javel 488 Javel 488 Javel 488 Jean 483 Jean	Joyful 484	Lagging 289	Linnet 24 Linseed 24 Lintel 223 Lioness 223 Lionize 223 Liquidate 223 Liquidated 223 Liquidating 223	Lovely 200 Lover 260 Lover 200 Lower 900 Lowerd 200 Lowering 200 Lowland 200 Lowland 201 Lowness 211 Lubrication 247 Lucid 247
Indirection 348	Jaundice 488	Joyfully 484	Lair 989	Linseed 994	Lover 260
Indispose 355 Indisposed 355 Indisposing 355 Indistrict 355	Javol 488	Invfullnose tet	Luity 9co	Lintal Our	Loversone 900
Indignocad 955	Insulle too	6001 tutilies 5 4-4	14110	1311101 223	170V CSOIIIE,, 200
indisposed aso	5 avenu	484	[Lamp 289]	Lioness 223	Lower 200
Indisposing 355 Indistinct 355 Indistinct 355 Indistinct 355 Indorsed 355 Indorsed 355 Indorsement 355 Indorsement 355 Induce 355 Induce 355 Inducted 355 Inducted 355 Inducting	Jawbone 488	doyously 484	Lambkin 289	Lionize 223	Lowered 200
Indistinct 355	Jav 488	Joyousness 484	Lamblike 289	Liquidate 223	Lowering 200
Indistinctly . 355	Jean 483	Jubilant	Lamellar 2006	Liquidated 992	Lowland 900
Indores 255	Tonge 400	Indicate	Tarrelliforms 000	Timeldatian 000	150 414114
indorse 333	Juars 483	duphate 484	Lamelinorm266	Liquidating 223	LOWIY 211
indorsed 355	Jeddo 410	Aubitation 484	Lament 289	Liquor 223	Lowness 211
Indorsement 355	Jeer 4×3	Judah 484	Lament 289 Lamentable 289	Liquor	Lubrication 947
Indorser 355	Inored 483	Indiaial (v)	Lamentably 289	Lien 997	Lucid
Induse 955	J 400	Judicial 454	Lamentably 289 Lamentation 289	Lisboo 223 Lisp 237 Lispied 237 Lisping 237 Lispingly 237 Listen 237 Listenel 237 Listening 237 Listening 237 Listless 469 Literal 469 Literaliess 469 Literalry 469	Lucid 247 Lucid 247 Lucidity 247 Lucifer 247 Luckier 247 Luckiness 247 Luckless 247 Luckless 247 Lucklessly 247 Lucklessly 247
111duce 3.33	Jeerer 483	Judicious 484	Launentation 289	Lisped 237	Lucidity 247
Induet 355	Jeering 483	Julia 272 Jumping 154 Junction 154 Juncture 154	Lamented 289 Lamenting 289 Laminate 266 Lampoon 240 Lampooned 240	Lisping 237	Lucifer 247
Inducted 355	Jefferson 410	Jumping 154	Lamenting 289	Lispingly 237	Luckily 247
Inducting 355	Jehovah 485	Junction 154	Laminate 266	Listen 927	Luckiness 947
	Lubrafat 105	Juliction 1.74	Tantinate 200	1215(011	Luckiness 247
	Jenvoist 485	Juncture 194	Lampoon 240	Listened 237	Luckiess 247
Inductor 355	Jehvoist. 485 Jelly 485 Jelly 485 Jemima 485 Jenkintown 410 Jennet 485 Jenneting 485	Jungly	Lampooned 240	Listening 237	Lucklessly 247
Indulge 355 1	Jemima 485	Jungly 483	Lanary 266 Lance 240 Lanced 240 Lancet 240 Land 240	Listful 469	Lucky 947
Indulgent 355	Ionkintown 410	Innior 482	Lance 240	Listlace 460	Lucrative 947
Industry 355	Lumpet 405	Junio1	Lanco, 240	7 14	TAICIALIVE 211
industry 355	Jennet 485		Lanced 240	Literal 469	Lumping 247
luez 355	Jenneting 485	K	Lancet 240	Literalism 469	Lunipish 247
Infamous 355	Jennings 410 Jentling 485		Land 240	Literalness 469	Luupishly 247
Infamy	Jentling 485	Killing 351	Landau 240	Literary 469	Luff 393
Infancy 355	Laurey 410	L'ilo 951	Lundad 910	Literary 469 Literature 247 Lithograph 247	Luggaga
Infantile of	denny 410	Kiln	Landed 240	Literature 247	Luggage 393
manue 355	Jeopard 480	Kilt	Landholder 240	Litinograph 247	Lugger 393
Infected 355	Jeoparder 485	Kimbo 351 1	Landlady 240	Litigant 247	Luke 393
Ingalls 409	Jeonarding 485	Kimlle 351	Landlock 240	Litigate 247	Lull
Ingalton 409	Jenning 455 Jenjurd 485 Jeoparder 485 Jeopardize 485 Jeopardize 485	Kindled 351	Landlord 988	Litmus 908	Lullahy gos
Ingersoll 400	loopardy 405	Kindlier 351	Landman	Litter 000	Lulled
Infamy 355 Infancy 355 Infantile 355 Infantile 355 Infantile 355 Ingalls 409 Ingalton 409 Ingersoll 409	ocoparuy 400	Kindle 351 Kindled 351 Kindled 351 Kindlier 351 Kindliest 351	Land 240 Landau 240 Landed 240 Landhoider 240 Landhoider 240 Landlock 241 Landlord 288 Landmark 288 Landroll 288 Landroll 288	Titte -1 208	Lucklessly 247 Lucky 247 Lucky 247 Lucrative 247 Lumping 247 Lumpish 247 Lumpish 247 Lumpish 247 Lumpish 247 Lumpish 248 Lumpish 248 Lumpish 258 Luggage 353 Lugga
ingreside 409	Jernoa 485	Kindliest 351	Landm (FK 288	Littering 209	Lumbago 393
Ingrams 4.0	Jeremiad 485			Littleness 209	Lumbering 393
Inkseters 409	deremiali 485	Kindling . 351	Landroll 288 Landscape 288	Littoral 208	Lumberingly 393
Interlochen and	Jericho 410	Kindling 351 Kindness 351	Landslide ove	Litu	Luminary
Inwood 400	Lordon 40"	Vindand 055	Involution 000	Litudopo	Luminous
Ingersoll 448 Ingleside 409 Ingrains 4.6 Inkseters 409 Interlochen 409 Inwood 409 Iolia 449	Jeopardize 485 Jeopardy 485 Jerboa 485 Jeremiad 485 Jeremiadi 485 Jericho 410 Jerker 485 Jerkin 485 Jerkin 485 Jermyn 410 Jerome 410 Jersey 485	Kindred 351 Kingbird 351 Kingcraft 351	Landscape 288 Landslide 285 Landslide 285 Landspring 288 Landspring 288 Landspring 288 Lanesboro 366 Lanedon 366 Lanedon 366 Lanedon 288 Lanedon 2	Lithograph 247 Litigant 247 Litigant 247 Litigante 247 Litigante 248 Litter 208 Litter 208 Littering 209 Littleness 208 Littorial 208 Littorial 208 Littorial 208 Litturial 207 Litturial 247 Litturia	Jumbago 893 Lumbering 893 Lumberingty 393 Luminary 393 Juninary 393 Luminous 433 Lump 50 Lurch 210 Lurching 210 Lurking 211 Lurking 211 Lurking 210 Luscious 210 Luscious 210 Luscious 220 Juster 209 Juster 209
101a 409	Jerkm 485	Kingbird	Landspring 288	Litugun 247	Lump 50
Ione 409	Jermyn 410	Kingeraft 351	Landward 288	Liturgy 208	Lurch 210
Ionia 409	Income 410	Kirk 154	Lane 288	Liveliliood 208	Lurching 910
1002 409 1001a 409 1001a 409 1001a 409 1001a 400 1001a 400 1001a 400 1001a 400 1001a 400 1001a 400 1001a 4001a 4	Loreov 105	Kinkman 151	Laurehove 200	Livelinees 911	Lunid 010
Ipava. 100	Jersey 485 Jerusalem 410	Kii kiiiaii 104	Lanestono 200	Liveliness 211	Luriu 210
1pswich 409	Jerusaiem 410	Kirtle 154	Langdon 306	Lively 211	· Luring 211
Tredell 409	Jerusha 485 Jervin 485	Kirtled 154	Langford 306	Livermore, 410	Lurking 211
Irolo 409	Jervin 485	Kise 154	Language 288	Livery 211	Luscious 210
Irolo 409 Ironation 409	Jested 485	Kiecod 177	Languid 288	Livid 911	Lucciously 210
Leondalo 400	Touton 405	Vissing 177	Languidly 000	Lively 211 Livermore 410 Livery 211 Livid 211 Lividness 211	Lucaionencea 000
Incitatio	Jester 130	Kissing	Dang aldiy, 200	7/11/10/10/33 211	Lustiousness 200
Tronton 459	Jestiui 485	Kitchen 177	Languisting 107	Livonia 410	Luster 209
Irondale 409 Ironton 459 Iroquois 409	Jesting 485	Kite 177	Languishing 107 Languishment . 107	Living 211	Luster 209 Lusterless 209
Irvineton	Jesuit 485	Kitling 177	Languor 107	Livingstone 410	
Irving 410	Jesuitie 485	Kitton 177	Lank 107	Lizard 911	. M.
Invington 410	Learn	Variable 177	Langing 900	Llene 410	. 171
II viligion 410	Jesup (410	MIRCK 177	Lansing 300	Liano 410	
11 vonat 410	Jetsam 485	Knackish 177	Lansing burg 307	Loadstone 211	Macarate, 51
Irwin 410	Jetsam 485 Jettison 485	Knackish 177 Knave 177	Languor 107 Lank 107 Lansing 306 Lansing burg 307 Lantern 107	Living 211 Livingstone 410 Lizard 211 Llano 410 Loadstone 211 Loufer 211	Macarate 51 Macaroni 51
Irvona 410 Irwin 410 Isubel 410	Jetsam 485 Jettison 485 Jetteau 485	Knackish 177 Knave 177 Knave 177	Lansing burg 307 Lantern 107	Loaner 211	Macarate 51 Macaroni 51 Mace 51
Irvona	Jetsam 485 Jettison 485 Jetteau 485	Knackish 177 Knave 177 Knavery 177	Lansingburg 307 Lantern 107 Laona 307 Laona 307	Loaner 211	Macarate
Isabel 410	Jetsam 485 Jettison 485 Jetteau 485 Jetty 485	Knackish , 177 Knave . 177 Knavery 177 Knavish . 177	Lansing burg 307 Lantern 107 Laona 307 Lanyard 107	Loaner 211	Macarate 51 Macaroni 51 Mace 51 Machinery 51
Isabel 410	Jervin. 483 Jested 485 Jester 485 Jestind 485 Jestind 485 Jestind 485 Jesuitt 485 Jesuitt. 485 Jesuitt. 485 Jettam 485 Jettsam 485 Jetteau 485 Jettey 485 Jetty 485 Jewel 485	Knackish	Lansing burg 307 Lantern 107 Laona 307 Laonyard 107 Lapdog 107	Loaner 211	Macarate 51 Macaroni 51 Mace 51 Machinery 51 Machinest 51
Isabel 410	Jetsam 485 Jettison 485 Jetteau 485 Jetty 485 Jewel 485 Jeweled 485	Knackish 177 Knave 177 Knavery 177 Knavish 177 Knavishly 177 Knavishly 177 Knavishness 177	Lansing burg 307 Lantern 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307	Loaner 211	Macarate 51 Macaroni 51 Mace 51 Machinery 51 Machinist 51 Madam 51
Isabel 410	Jetsam 485 Jettison 485 Jetteau 485 Jetty 485 Jeweled 485 Jeweled 485 Jeweler 485	K nackish 177 K nave 177 K navery 177 K navish 177 K navish 177 K navishly 177 K navishness 177 K neg 177	Lansing burg 307 Lantern 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Laptul 107	Loaner 211	Macarate 51 Macaroni 51 Mace 51 Machinery 51 Machinist 51 Madam 51 Madean 51
Isabel 410	Jettsum 485 Jettison 485 Jetteau 485 Jetty 485 Jewel 485 Jeweled 485 Jeweler 485 Jeweler 485 Jeweler 485	Kingeratt. 351 Kirk 154 Kirk 154 Kirkman 154 Kirtled 154 Kirtled 154 Kirtled 154 Kissed 154 Kissed 177 Kitelen 177 Kitelen 177 Kitelen 177 Kittling	Lansing burg 307 Lantern 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapful 408	Loaner 211	Macarate 51 Mace 51 Mace 51 Machinery 51 Machinist 51 Madam 51 Madeap 51 Madman 54
Isabel 410	Jettsun 485 Jettison 485 Jetteau 485 Jetty 485 Jewel 485 Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485	Knackish 177 Knave 177 Knavery 177 Knavish 177 Knavishly 177 Knavishly 177 Knee 177 Knee 177	Lansing burg 307 Lantern 107 Laona 307 Lanyard 107 Lapyard 107 Lapdog 107 Lapeer 307 Laptil 107 Lapidary 408	Loaner 211	Macarate 51 Macaroni 51 Mace 51 Machinery 51 Machinist 51 Madam 51 Madeap 51 Madman 51 Madman 51
Isabel	Jettsum 485 Jettison 485 Jetteau 485 Jetty 485 Jewel 485 Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelry 485	Knackish 177 Knave 177 Knavery 177 Knavery 177 Knavish 177 Knavishly 177 Knavishness 177 Knee 177 Kneel 177 Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loaner 211	Macarate 51 Macaroni 51 Mace 51 Machinery 51 Machinist 51 Madam 51 Madeap 51 Madman 61 Madness 51
Isabel	Jetsam 485 Jettison 485 Jetteau 485 Jetty 485 Jewel 485 Jewele 485 Jeweler 485 Jewelr 485 Jewelry 485 Jewelry 485 Jewelry 485 Jewess 485	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loaner 211	Macarate 51 Macaroni 51 Mace 51 Machinery 51 Machinist 51 Madam 51 Madeap 51 Madman 61 Madness 51 Magazine 51
Isabel 410	Jetsam 485 Jettison 485 Jetteau 485 Jetty 485 Jewel 485 Jewel 485 Jeweler 485 Jewelry 485 Jewelry 485 Jewess 485 Jewess 485 Jewest 481	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macarate 51 Macaroni 51 Mace 51 Machinery 51 Machinery 51 Machinery 51 Madam 51 Madman 61 Madmess 51 Magazine 51 Maggot 51 Maggot 51
Sabel 410 Ishpenning 410 Ishpenning 410 Isleta 410 Islington 410 Ishpen 410 Ithica 410 Ithican 410 Iuka 410	Jetsam 485 Jettison 485 Jettison 485 Jetteau 485 Jetty 485 Jeweled 485 Jeweled 485 Jeweling 485 Jeweling 485 Jewelry 485 Jewess 485 Jewess 485 Jewest 481	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macarate 51 Mace 51 Machinery 51 Machinery 51 Machiner 51 Madam 51 Madeap 51 Madman 61 Madness 51 Magazine 51 Maggot 51 Mavic 51
Isabe	Jetsum 485 Jettison 485 Jettison 485 Jetteu 485 Jewel 485 Jeweled 485 Jeweling 485 Jeweling 485 Jeweling 485 Jewels 485 Jewels 485 Jewes 485 Jewes 485 Jewett 41 Jewist 485	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macarate 51 Macaroni 51 Mace 51 Mace 51 Macliniery 51 Machiner 51 Machines 51 Madeap 51 Madnan 51 Madness 51 Magazine 51 Magic 51 Macical 51
Isabe	Jetsam 485 Jettison 485 Jettison 485 Jetteau 485 Jewel 485 Jeweld 485 Jeweler 485 Jewelry 485 Jewelry 485 Jewelry 485 Jewess 481 Jeweish 485 Jeweish 485	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macarate 51
Isabe	Jetsam 485 Jettison 485 Jetteau 485 Jetty 485 Jeweled 485 Jeweler 485 Jeweler 485 Jewelry 485 Jewetry 485 Jewett 411 Jewish 485 Jibboom 485	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macaroni 51
Isabe	Jetsum 485 Jettison 485 Jettison 485 Jetty 485 Jeweled 485 Jeweled 485 Jeweled 485 Jewelfy 485 Jewess 485 Jewess 485 Jewesh 485 Jilboom 485 Jilboom 485	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macaroni 51
Isabel 410 1shpenning 410 1shpenning 410 1shpenning 410 1shington 410 1shington 410 1thican 488 Jabberer 488 Jabbering 488 Jabbering 488 Jabbering 488 Jabbering 488 Jabbering 488 4	Jetsum 485 Jettison 485 Jettison 485 Jetteau 485 Jeweled 485 Jeweled 485 Jeweler 485 Jewelfy 485 Jewelfy 485 Jewess 485 Jewest 411 Jewish 485 Jibloom 485 Jibloom 485 Jibloom 485	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macaroni. 51 Mace. 51 Mace . 51 Machinery. 51 Machines. 51 Madeap. 51 Madnan. 51 Madness. 51 Magazine. 51 Magazine. 51 Magistrate. 51 Magney. 51 Magnifying. 51 Magnifying. 51
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macaroni 51
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macaroni 51
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macaroni 51
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Lanterii 107 Laona 307 Lanyard 107 Lapdog 107 Lapeer 307 Lapful 107 Lapidary 408 Laranie 307	Loanter	Macaroni 51
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Latiner	Loanter 211 Loanter 211 Loanter 211 Loath ful 211 Loath ness 211 Loath some 211 Locality 211 Locality 211 Locate 211 L	Macaroni
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Isabel 410 15hpening 488 Jabberer 488 Jabbering 48	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Kneeler 177 Kneeled 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Knieht 177 Knieht 177 Knighthood 177 Kni	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelsy 485 Jewess 485 Jewest 411 Jewish 485 Jibboom 485 Jibboom 485 Jibboom 485 Jibbo 485	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Knieht 177 Knieht 177 Knighthood 177 Kni	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweler 485 Jewellng 485 Jewellng 485 Jewest 485 Jewest 411 Jewish 485 Jiliboom 485 J	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Knieht 177 Knieht 177 Knighthood 177 Kni	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweler 485 Jewellng 485 Jewellng 485 Jewest 485 Jewest 411 Jewish 485 Jiliboom 485 J	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Knieht 177 Knieht 177 Knighthood 177 Kni	Latiner	Lonter 211 Loather 211 Loathrid 211 Loathhome 211 Loathhome 211 Loathhome 211 Loather 211 Locatity 211 Locatity 211 Locatity 211 Locatite 211 Locatite 238 Locket 238 Locket 238 Locket 238 Locket 238 Lodging 238	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelt 485 Jewett 411 Jewish 485 Jibboom 485 Jingling 483 Joah 411 Joan 481	Kneeler 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneepan 177 Knell 177 Knelt 177 Knight 177 Knight 177	Latiner	Londer 211 Loading 213 Loading 238 Locked 238 Locked 238 Locked 238 Lodging 23	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelt 485 Jewett 411 Jewish 485 Jibboom 485 Jingling 483 Joah 411 Joan 481	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniel 177 Kniels 177 Kniels 177 Knighted 177 Knightled 177 Knightlug 177 Knightlug 177 Knightlug 177 Knightlug 177 Knitter 177 Knitter 177 Knitter 177 Knitter 489 Knocked 489 Knocked 489 Knocker 489 Knocking 489 Knocking 489	Langurd 907 Langurd 107 Langur	Londer 211 Loading 213 Loading 238 Locked 238 Locked 238 Locked 238 Lodging 23	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelt 485 Jewett 411 Jewish 485 Jibboom 485 Jingling 483 Joah 411 Joan 481	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Knieht 177 Knieht 177 Knighthood 177 Kni	Langurd 907 Langurd 107 Langur	Londer 211 Loading 213 Loading 238 Locked 238 Locked 238 Locked 238 Lodging 23	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelt 485 Jewett 411 Jewish 485 Jibboom 485 Jingling 483 Joah 411 Joan 481	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 17	Landri	Londer 211 Loading 213 Loading 238 Locked 238 Locked 238 Locked 238 Lodging 23	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelt 485 Jewett 411 Jewish 485 Jibboom 485 Jingling 483 Joah 411 Joan 481	Rineeler 177 Kneeler 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniels 177 Kniels 177 Knight 177 Knitter 177 Knitter 177 Knitter 489 Knocking 489 Knocking 489 Knoll 489	Lanuard 107 Laonard 107 Laonard 107 Laphog 107 Lapper 307 Lapper 107 Lappdary 408 Laraunie 307 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 208 Lighteening 208 L	Londer 211 Loading 213 Loading 238 Locked 238 Locked 238 Locked 238 Lodging 23	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelt 485 Jewett 411 Jewish 485 Jibboom 485 Jingling 483 Joah 411 Joan 481	Rineeler 177 Kneeler 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniels 177 Kniels 177 Knight 177 Knitter 177 Knitter 177 Knitter 489 Knocking 489 Knocking 489 Knoll 489	Lanuard 107 Laonard 107 Laonard 107 Laphog 107 Lapper 307 Lapper 107 Lappdary 408 Laraunie 307 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 208 Lighteening 208 L	Londer 211 Loading 213 Loading 238 Locked 238 Locked 238 Locked 238 Lodging 23	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweling 485 Jeweling 485 Jewelt 485 Jewett 411 Jewish 485 Jibboom 485 Jingling 483 Joah 411 Joan 481	Rineeler 177 Kneeler 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniels 177 Kniels 177 Knight 177 Knitter 177 Knitter 177 Knitter 489 Knocking 489 Knocking 489 Knoll 489	Lanuard 107 Laonard 107 Laonard 107 Laphog 107 Lapper 307 Lapper 107 Lappdary 408 Laraunie 307 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 208 Lighteening 208 L	Londer 211 Loading 213 Loading 238 Locked 238 Locked 238 Locked 238 Lodging 23	Macaroni
Sabel 410	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joan 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kneeler 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniels 177 Kniels 177 Knight 177 Knitter 177 Knitter 177 Knitter 489 Knocking 489 Knocking 489 Knoll 489	Lanuard 107 Laonard 107 Laonard 107 Laphog 107 Lapper 307 Lapper 107 Lappdary 408 Laraunie 307 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 208 Lighteening 208 L	Londer 211 Loading 213 Loading 238 Locked 238 Locked 238 Locked 238 Lodging 23	Macaroni
Sabel 410	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joan 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kneeler 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Knieht 177 Knighted 177 Knighted 177 Knighted 177 Knightlood 177 Knightlo	Lanuard 107 Laonard 107 Laonard 107 Laphog 107 Lapper 307 Lapper 107 Lappdary 408 Laraunie 307 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 407 Lapidary 408 Laraunie 208 Lighteening 208 L	Londer 211 Loading 212 Loading 213 Loading	Macaroni
Sabel 410	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joan 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kneeler 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Knieht 177 Knighted 177 Knighted 177 Knighted 177 Knightlood 177 Knightlo	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel 410	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joan 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kneeler 177 Kneeled 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Knieht 177 Knighted 177 Knighted 177 Knighted 177 Knightlood 177 Knightlo	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel 410	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joann 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghiles 178 Kinghiles 189 Kinghiles 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel 410	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joann 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghiles 178 Kinghiles 189 Kinghiles 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel 410	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joann 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghiles 178 Kinghiles 189 Kinghiles 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel 410 Sabel 410 Shpening 410 Shipping 410 Shipping 410 Shipping 410 Shipping 410 Shipping 410 Jabber 488 Jabbering 488 Jacknapes 488 J	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joann 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 189 Kinghites 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel 410 Sabel 410 Shpening 410 Shipping 410 Shipping 410 Shipping 410 Shipping 410 Shipping 410 Jabber 488 Jabbering 488 Jacknapes 488 J	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joann 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 189 Kinghites 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel	Jeweled 485 Joweler 485 Jeweler 485 Jewelry 485 Jewelty 485 Jewest 485 Jewest 411 Jewish 485 Jibuoon 485 Joobtown 411 Joann 483 Johnson 483 Johnson 483 Johnson 483	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 189 Kinghites 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel	Jeweled 485 Jeweler 485 Jeweler 485 Jeweler 485 Jewelt 485 Jewett 411 Jewish 485 Jillo 485 Jiboom 485 Joonson 411 Jookey 483 Jookeylsm 483 Jookeylsm 483 John	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 189 Kinghites 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating 212 Locating	Macaroni
Sabel	Jeweled 485 Jeweler 485 Jeweler 485 Jeweler 485 Jewellng 485 Jewellng 485 Jewest 441 Jewish 485 Jibins 485 Jibins 485 Jibins 485 Jibins 485 Jibins 485 Jigish 486 Jilins 483 Jilins 483 Jilins 483 Jilins 483 John 411 John	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 189 Kinghites 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating	Macaroni
Sabel	Jeweled 485 Jeweler 485 Jeweler 485 Jeweler 485 Jewellng 485 Jewellng 485 Jewest 441 Jewish 485 Jibins 485 Jibins 485 Jibins 485 Jibins 485 Jibins 485 Jigish 486 Jilins 483 Jilins 483 Jilins 483 Jilins 483 John 411 John	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 189 Kinghites 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweler 485 Jeweler 485 Jewellng 485 Jewellng 485 Jewest 441 Jewish 485 Jibins 485 Jibins 485 Jibins 485 Jibins 485 Jibins 485 Jigish 486 Jilins 483 Jilins 483 Jilins 483 Jilins 483 John 411 John	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 189 Kinghites 18	August A	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweler 485 Jeweler 485 Jewellng 485 Jewellng 485 Jewest 441 Jewish 485 Jibins 485 Jibins 485 Jibins 485 Jibins 485 Jibins 485 Jigish 486 Jilins 483 Jilins 483 Jilins 483 Jilins 483 John 411 John	Rineeler 177 Kineeler 177 Kineeled 177 Kineeling 177 Kineling 177 Kinghited 177 Kinghited 177 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 178 Kinghites 189 Kinghites 18	Lander	Lottler 211 Loather 211 Loathe	Macaroni
Sabel	Jeweled 485 Joweler 485 Jeweler 485 Jeweler 485 Jewelt 485 Jewest 485 Jewest 485 Jewest 485 Jibin 485 Jilin 485 Johnson 411 Johnston 483 Johnson 483 Johns	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniels 178 Knock 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Laccration 136 Laccration 266 Laccration 266 Laccration 266 Laccration 261 Laccritian 266 Laccritian 266 Laccritian 266 Laccritian 151 Laccine 152 Laccine 152 Laccine 152 Laccine 153 Laccine 154	Lander	Lottler 211 Loather 211 Loathe	Macaroni
Sabel	Jeweled 485 Jeweler 485 Jeweler 885 Jeweler 885 Jeweller 885 Jillion 485 Jillion 885 John	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniels 178 Knock 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Laccration 136 Laccration 266 Laccration 266 Laccration 266 Laccration 261 Laccritian 266 Laccritian 266 Laccritian 266 Laccritian 151 Laccine 152 Laccine 152 Laccine 152 Laccine 153 Laccine 154	Lander	Lottler 211 Loather 211 Loathe	Macaroni
Sabel	Jeweled 485 Jeweler 485 Jeweler 885 Jeweler 885 Jeweller 885 Jillion 485 Jillion 885 John	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniels 178 Knock 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Laccration 136 Laccration 266 Laccration 266 Laccration 266 Laccration 261 Laccritian 266 Laccritian 266 Laccritian 266 Laccritian 151 Laccine 152 Laccine 152 Laccine 152 Laccine 153 Laccine 154	August A	Lottler 211 Loather 211 Loathe	Macaroni
Sabel	Jeweled 485 Jeweler 485 Jeweler 885 Jeweler 885 Jeweller 885 Jillion 485 Jillion 885 John	Rineeler 177 Kneeler 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneeling 177 Kneels 177 Kneels 177 Kniels 178 Knock 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Knocking 489 Laccration 136 Laccration 266 Laccration 266 Laccration 266 Laccration 261 Laccritian 266 Laccritian 266 Laccritian 266 Laccritian 151 Laccine 152 Laccine 152 Laccine 152 Laccine 153 Laccine 154	August A	Lottler 211 Loather 211 Loathe	Macaroni
Sabel 410	Jeweied 485 Joweier 485 Jeweier 485 Jeweier 485 Jeweit 485 Jeweit 411 Jewish 485 Jiboom 485 Jilited 485 Joah 411 Jouit 483 John 411 Jouit 483 John 484 John 484 John 484 John 484 Josephilin 484 Jo	Rineeler 177 Kneeler 177 Kneeling 177 Kniebt 177 Kni	August A	Lottler 211 Loather 211 Loathe	Macaroni
Sabel 410	Jeweied 485 Joweier 485 Jeweier 485 Jeweier 485 Jeweit 485 Jeweit 411 Jewish 485 Jiboom 485 Jilited 485 Joah 411 Jouit 483 John 411 Jouit 483 John 484 John 484 John 484 John 484 Josephilin 484 Jo	Rineeler 177 Kneeler 177 Kneeling 177 Knieling 177 Knieli	August A	Lottler 211 Loather 211 Loathe	Macaroni
Sabel 410	Jeweled 485 Jeweler 485 Jeweler 885 Jeweler 885 Jeweller 885 Jillion 485 Jillion 885 John	Rineeler 177 Kneeler 177 Kneeling 177 Kniebt 177 Kni	Lander	Lottler 211 Loather 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loathers 211 Loather 211 Locating	Macaroni

PAGE.		· PAGE.	PAGE.	PAGE.	
Mandatory 53	Massively 16		Millergan 377	Module PAGE.	PAGE.
Mandatory 53 Mandrake 53	Massivery 16	Memoir 258	ninergan 377	Module 50 Mohawk 397	Muskegan 450
мапагаке эз	Massy 16		Millerton 375 Millerville 375	Mohawk 397	Mystic 450
Manarel 53	Mast 19	Memorize 10	Millerville 375	Moist 50 Moistening 50	
Manester 16	Masted	Memory 10 Memory 10 Memace 10 Mend 10 Mender 10 Mending 10 Mendon 388 Memoral 10 Memoral 1	Millet 46	Moistening 50	N
Manful 16 Manfully 16 Manfulness 16	Master 19	Menace 10	Milling 47	Moisture 50	
Manfully 16	Mastered 19	Menace 10	Mining 47		NY: 1
Manonly 16	Masterea 19	Mend 10	Milling 47 Millington 377	Melamess 50	Nab 261
Manfulness 16	Mastering 19	Mender 10	Millmont 377	Molest 50	Nabit 261
	Mastering 19 Masterless 19	Mending 10	Millmont	Molest 50	Nab 261 Nabit 261 Nabit 261 Nabob 261 Nabob 261 Nacarat 261 Nach 261 Nacker 261 Nacre 261 Nacreous 261 Nacrite 261 Nacrite 261
Manger 9	Masterly 18 Mastership 18	Mendon 388	Milleille 977	Molt 50	Nahoh 9c1
Mangle 9 Mangled 9	Mastership 18	Menial 10 Menlo 388 Mental 10 Mentally 10	Millwood 977	Multon	Vonneel
Mangle	Mastership 18	Memai 10	51111 WOOU 377	Moiten 30	Macarat 261
Mangied 9	masticate 18	Memo 388	Millo 377	Molton 397	Nach 261
Mangier 9	Matamoras 381	Mental 10	Milrov 377	Momence 398	Nacker 261
Mangling 9	Matanan 389	Mentally 10	Milton 377	Moment 50	Nacre 961
Mango 9	Mataga 900	Mention 10	Minuio 47	Mountue to	Magazine
Manage	Mata va	Mention 10	Minnie 47	Stomentus 60	Nacreous 261
Mangrove 9	Mastership 18	Mention 10 Mentioned 10	Minnical 47	мона 398	Nacrite 261
Mango 9 Mangrove 9 Manhood 9	Mate	Mento	Mimico 386	Mona	Nadab 262 Nadelstein 262 Nadelstein 262 Nadir 262 Naevase 262
	Mateless 13	Mentor 46	Minburne 387	Monarchial 50	Nadelstein 262
Manifest 9 Manifested 9 Manipulate 9 Mankind 9 Manliness 9 Mankind 9	Mutfield 991	Marcanary 46	Mince 47	Monarchy 50	Nadir ocu
Manifested 0	Matins. 10 Mattison. 382 Mattoon. 382 Mattress. 10	Mercenary 40	31:	Monarchy 50	Mau11 202
mannested a	Mattison 382	Mercer 46	Minced 47	Monastie 50	Naevase 262
Manipulate 9	Mattison 382	Merchant 46	Mind 47	Monclova 398	Naeve 262
Mankind 9	Mattoon 382	Merciless 46	Minded	Moncure 398	Nafe 262
Manliness 9	Mattress 10	Mercury : 46	Minden 387	Mondamin 398	Naff 969
Munly 0	Matrix 10 Matrimony 10	Morey	Mindfuller 17	Mondole 900	N'000
Manna	Matrimony 10	MC109 40	Minutury 47	MUHUMA	11ag 202
Manna 9	Matrimony 10	Meredo 388	Minedosa 394	Moncoire	Naggy 262
Manly 9 Manna 9 Manuerism 9	Matron 10 Matronhood 10	Mercenary	Millwood. 977 Millo 377 Millo 377 Millo 377 Millo 377 Millo 377 Millo 377 Millo 386 Minbirne 887 Mince 47 Minced 47 Minced 47 Minded 47 Minded 387 Minden 887 Minden 887 Minden 887 Minden 887 Minden 887 Mindelosa 934 Mincelosa 394 Mincelosa 394 Mincelosa 394 Mincelosa 394	Monetta 398	Nagor 262
Mannerly 9.	Matronhood 10	Merge 46	Mineota 394	Mongrel 50	Najad 261
Manning 9	Matted 10	Merged 46	Miner 47	Monetta 398 Mongrel 50 Monkey 50	Naight 909
Mannerly 9 Manning 9 Manoka 108	Matted 10 Matter 10	Merge 46 Merged 46 Merian 388 Meridan 388	Miner 47 Minerva 394	Monkey 50 Monkey 50 Monkish 51 Monnee 398 Monnette 398	Naevase 282 Naeve 262 Nafe 262 Nafe 262 Naff 262 Nafg 262 Naggy 262 Naggor 262 Nagor 261 Nainut 262 Naidut 261 Nainut 262 Naidut 261 Naidut 262
Manor	Maurico 600	Monidan	19 DCI Ya 394	Monkish 51	1 aiuui 261
Manor 9 Mansion 9	Maurice 382	Meridan 388	mineral 394	monnee 398	Naif 262
mansion 9	мах weн 382	Meridia 388	Mineral 394 Minewakan 394	Monnette 398	Nail 261
Mantan 108 Manteno 108	Maxwell. 382 Mayfield 382 Mayford 382 Mazon 382	Meridia 388 Meridian 46	Minewakan 394 Mingle 47/ Mingo 394	Monongah	Nailball 262
Manteno 108	Mayford 289	Meridith 388	Mingo 904	Monongah 200	Nailbrush 262
Mantle	Mazon	Morigold	Mining	Manangahala	Vailed 202
Mantle 9 Montled 9	Mazy 240	Monillian 388	Minister 4/	Managaluta 309	Nailed 261
Manton 100	Mazy 240	Meriman 388	minister 47	монорогу 51	Nailer 262
мантоп 108	mead 240	Merinac 388	Mink 47	Monopoly 51 Monotony 51	Nail 262 Nail 261 Nailball 262 Nailbrush 262 Nailed 261 Nailer 262 Nailer 262 Nailer 262 Nailer 262
Manton	Meadow 240	Merino 46	Minock 394	Monroe 399 Monrovia 399	Nailery 262 Nailheaded 262
Manually 20	Meadville 38-7	Merited 46	Minor 304	Monrovia 300	Nailheaded 262
Manuscript 21	Meager 940	Meriting 905	Minster 201	Monein 900	Nailing 261
	Mead 240 Meadow 240 Meadville 382 Meager 240 Meogerness 240 Mengerness 240	Meridian 46 Meridith 388 Merigold 388 Merillian 388 Merillian 388 Merino 46 Merited 46 Meriting 205 Meromaid 205 Merom 388	Mingle 477 Mingo 394 Mining 447 Minister 47 Minister 47 Mink 47 Minock 394 Minorer 384 Minorer 384 Minorer 47 Mintage 47	Monsin 399 Monster 398 Montague 399 Montandon 399 Montandon 399	Nailing 261 Nainscok 263
Many mo 100	Meal 240	Mermaid, 200	Ministrei 47	Monster 398	Namscok 263
Map 21 Mapimi 108 Maple 21 Marbled 25	Micai	Merom	Mintage 47	Montague 399	Nais 262
, Mapimi 108	Mealiness 240	Merricourt 388	Minuka 394	Montandon 399 1	Naissant 263
Maple 21	Mean 240	Merrily 206	Minus 47	Montbello 399	Naivel 263
Marbled 25 March 25	Mean 240 Meander 240	Merrily 206 Merriment 206 Merriness 204 Merritt 373	Minute 47	Montcell 402	Naively 261
March 25	Magning 910	Monningae 200	Minutenana	Montelair 399	Naively 201
Margin 12	Mountaing 240	Merriness 204	Miniteness 47	Montelair 399	Naivete 263
	Meaningly 240	Merritt 3/3	Miracle 47	Montecello 402	Naked 261
Marginal 12	Meanly 240	Merry 204	Mireness 47	Montello 399	Namelessly 263
Margrave 12	Meanness 240	Merry 204 Merwin 373		Monteray 399	Nameplate 263
	Measles	Mesh 203	Mirth 47	Montevale 399	Namingly 263
Marine 12 Mariner 12 Maritime	Meaning 240 Meaning 240 Meaningly 240 Mennly 240 Meanness, 240 Measles 240 Measles 257 Measure 257 Measured 257 Measured 257 Measured 257 Measured 257 Measured 257 Measured 257	Mesh 203 Meshed 203 Meshboppen 373	Mirth 47 Mirthful 47 Misapply 47 Misbehave 47 Nischance 47	Montbello 399 Montbello 399 Montcell 402 Montclair 399 Montecllo 399 Monteraly 399 Monteray 399 Monteray 399 Montevideo 402 Montgomery 402 Montgomery 402 Montbly 51 Monument 51	
Mariner 12	Money	Moshed 203	35	Montevideo 402	Nampa 451
Maritime 12	Measure 201	Mesmoppen 373	Misapply 47	Montgomery 402	Nan 263 Nandor 263 Nandu 263 Nankeen 261
Maritimo 12	measured 257	Meshing 204 Metamora 373	Misbehave 47	Montbly 51	Nandor 263
Mark	Measuring 257	Metamora 373	Mischance 47	Monument 51	Nandu 263
Markel 12 Market 12 Maro 373 Marooned 10 Marquan 373	Meat 257 Mecede 385 Mechanic 257	Metcalf 373 Metropolitan 373	Mischief 47		Nankeen 961
Market 12	Mecede 385	Metropolitan 373	Miser 47	Mope	Nantue 902
Maro 272	Machania 957	Mewdota 388	Miser 47 Misery 47 Misfortune 47	Miope 32	Nantes
Managed	Machanic 201	Mewdota 355	Misery 47	Moping 52	Napt 261 Nape 261 Nape 261 Naples 451 Napkin 261 Naples 961
marooned 10	Mechanics 257	Meyers 373 Mianil 373	Mistortune 47	Moral 52	Nap 263
Marquan 373 Marquette 373	Mechanism 257	Miami 373	Misgive 47 Misguide 47	Morality 52	Napa 451
	Mecham 384	Micanopy 374 Michael 267 Michigamme 374	Misguide 47	Moralize 52	Name 981
Marquis 10 Marquota 379	Meclakling 384	Michael 967	Misguided 48	Moran 408	Nauloe 451
Marquota 379	Mocouta 991	Michiganon 054	Misguided 40	Moran 100	Maples 491
Museud 315	Medulat 304	Michigamme 3/4	Mishap 48 Mishawaka 394	Morass 52	Napkin 261
marred 14	Medalet 257	Middleboro 374	Mishawaka 394	Moravia 420 7	Napless 261
Marriage 14	Medalist 257	Middleburg 374	Misjoin 48	Morbid 52	Napolian 451
Marred 14 Marriage 14 Married 14 Marring 14	Medallion 257	Middlefield 374	Misjoin	Morbid 52 Morbidness 52	Napov 941
Marring 14	Meddler 46	Middleport 371	Misjudging 48	Morceni 420	Numbba. 001
Marrow 14	Modelina non	Middle oco	Misjunging 10	Mordant 49	Noptha 291
Marry 14	Mechanism 257 Mecham 384 Meclakling 384 Mecosta 384 Mecosta 384 Medalet 257 Medalist 257 Medalito 257 Medalito 257 Medielle 46 Mediera 380 Medical 385 Medical 386 Medical 46	Middleburg. 374 Middlefeld. 374 Middleport. 374 Midship. 268 Midst. 268 Midst. 201 Milfler. 201 Might. 202 Migrate. 204 Migrating. 204 Migrating. 204 Migrating. 206 Milgration. 206 Milgration. 206 Milgration. 379	Mislanding 48 Misleade 48 Misleader 48 Misoula 394 Misplace 48 Misrule 48 Missing 48 Missing 48		Napless. 261 Napolian 451 Nappy 261 Noptha 291 Narcissus 261 Narcytic 961
Marry 14	Modford 385	miast 268	misicader 48	Morell 421 Morganton 420	Narcotic 261 Narrative 261 Narrow 261 Narrower 261
Marrying 14 Mars 14	mediora 335	M1tt 201	Misoula 394	Morganton 420	Narrative 261
Mars 14 Marshal 14 Marshaled 14	mediapolis 386	Miffer 201	Misplace 48	Morhead	Narrow 261
Marshal 14	Medical 46	Might 909	Misrule 48	Morian 421	Narrower oct
Marshaled 11	Medically 46	Mighty	Missing	Morning	Narrowing 261
Marshallng 14	Medicated	Migrato	Mission 40	Morning 49 Moro 421	Narrowing 261
Marshy 14	Madiginal 000	Migrating 204	Mission. 48	MO10 421	1 asal 261
	Modloine 208	Migrating 204	миssоцга 394	Morose 52	Nasnville 451
Martel 376	medicine 258	migration 205	MIST	Morphology 49	Nashua 451
Martinsburg 378	medione 386	Milard, 379	Mistake 48	Morrice, 439	Natal 261
Martinsburg. 378 Martinsville. 378	Meditat 258	Milboro 379	Mission. 48 Missoura 394 Mist. 48 Mistake 48 Mistletoe 48 Mistreet 48	Moreal . 49	Natchez 451
Martyr 14	Meditate . 40	Milbrook 2003	Mistreat 48	Mortality 49	Nuteik
Martyrdom 14	Meditated ose	Milbury 900	Mistreat 48	Mortanty 49	Nation 451
Martyr 14 Martyrdom 14 Marvel 14 Marvelous 14	Mediapolls. 386 Medical. 46 Medically. 46 Medicated. 46 Medicinal. 258 Medicine. 386 Medicine. 386 Meditate. 46 Meditate. 46 Meditate. 46 Meditate. 46 Meditate. 46 Meditate. 46	Milloury 386	Mistrest 48 Mistrest 48 Misuse 48 Mitchell 394 Mitchell 48	Mortality 49 Mortar 49 Mortgage 49 Mortgaging 50	Nasal 261 Nashville 451 Nashua 451 Natal 261 Nathua 261 Natchez 451 Nation 261 Nation 261 Nation 261
Maryelana 14	moultating 46	Miliu 205	Nususe 48	Mortgage 49	Native 261
Marvelous 14	меdони 258	Mildale 386	Mitchell 394	Mortgaging 50	Natively 262
Marville 378	Medlev 258	Milder 206	Miter 48	Mortify 49	Naticity 969
Marville 378 Maryville 379	Medon 397	Mildest	Miter 48 Mitigate 48		Natural 202
Masculine 14	Meditating 46 Medinu 258 Medley 258 Medon 387 Medora 387 Medora 387	Mildow 000	Mittimpe 48	Mortise 49	Notice list
Maselon	Medusa 258	M.1	Mittimus 48	Mosaic 49	maturanst 262
Maselon 381	Medusa 258	mineage 200	Mix 48 Mixture 48	Moslem 49	Nation 261 Native 261 Natively 262 Nativity 262 Natural 262 Natural 262 Naturalist 262 Naturalize 262 Naturalize 262 Naturalize 262 Naturalize 262
Masena 381	megway 387	Millesbury 378	Mixture 48	Mossy 49	Nature 262
	Meek 258	Milford 379	Moan 48	Motherly 49	Nature 262 Nausea 262
Mash 14	Meekly 258	Miliolous 278	Mouning 48	Motion 49	
Mashed14	Meekness 958	Military	Mont 48	Motley 49	Nava aca
Mash 14 Mashed 14 Mashing 14	Medway 387 Meek 258 Meekly 258 Meekly 258 Meerschaum 258 Meerschaum 258	Section Sect	Moan 48 Moanling 48 Moat 48 Mobbed 48 Mobbing 48		Nave 262 Navigable 262 Navigable 262 Navigable 262 Navigate 262 Navigator 262 Navigator 262
	Months	Minitia	Mooded 48	Mottled 49	Navigable 262
	Meeting 258	мик 200	Mobbing 48	Mound, 49	Navigably 262
mask 14	Mekers 387	Milked 46	Moberly 394	Mount 49	Navigate 262
Mask 14 Masked 14 Masker 19 Masomanee 882	Mekers 387 Mekers 387 Melborn 396 Melborn 258 Melody 258 Melod 258 Melt 258 Melted 258 Melting 258 Melting 258 Melton 387	Milkmald 46	Moberly 394 Moccasin 48	Mounting 49	Navigation 969
Masker 19	Mellow 258	Milkuran 46	Mock	Mourn 50	Navigator 262 Naylor 451 Needle 321 Needless 321 Needlessly 321 Needlework 321 Needlework 321
Masomanee 999	Melody	Miller 40	Mocked 49	Mourn 50 Mournful 50 Mournful 50 Mournfully 50 Mouse 50	North
Mason	Molon 208	MILKY 46	Mockey 49	монгини, 50	Saylor 451
Manuala 19	meion 258	AIII 46	Mocking 49	Monrafully 50	Needle 321
masome 19	preif 258	Millan 386	Modeled 49	Monse 50	Needless 321
masonville 381	Metted, 258	Millanfield 375	Modeling 49	Month 50	Needlessly 321
Masonry 19	Melting 258	Millan 386 Millanfield 375 Millanville 375	Modena 207	Movable 50	Needlework 201
Masonanee 382 Mason 19 Masonle 19 Masonville 381 Masonry 19 Masquerade 19 Masquerade 19 Masquerade 19	Melton 387	Miliar 975	Modern	Movement 50	Nool con
Mass		Miliar 375 Millenburg 375	Modest : 50	Murdoult 00	Noonah 262
Massacre	Member	Millenburg 375	Modena 397 Modera 50 Modest 50 Modest 907	Murdock 450 Murrows 450	Necenan 451
Massacrad	Mambrane 258	Millerburg 375		MIIIFFOWS 450	negative 270
Manufacture 20	membrane 258	Millercan 375	Modestly 50	Muscatine 450	Neglect 270
Mass. 19 Massacre 20 Massacred 20 Massive 20	Melvln 396 Member 258 Meinbrane 258 Memento 258	Millercan 375 Millerfield 375	Modestly 50 Modlfy 50	Muscoda 450	Neel 262 Neenah 451 Negative 270 Neglect 270 Neglected 321
				+	

PAGE.	PAGE.	PAGE.	PAGE.	PAGE.	PAGE.
Negona 451 Negotiate 321 Negro 321	Nonconformist. 322	Pilot 492 Pinkard 492 Pine 492		Romance 53	Rosewater 97
Negatiate 201	Nondonaniut con	Distance 4 100	Riversi 32	Domanice 50	Rosewindow 197
regotiate 321	Nondescript 322	Pinkard 492	Riverside 14 Riverstation 32	Romaiint 53	
Negro 321	Nones 322 Nonparell 322 Nonphus 322 Nonscace 322	Pine 492	Riverstation 32	Romeine 53 1	Rosewood 97
Negus 321 Nelson 451 Nemesis 291	Nonnarell 320	Pioneer 499	Rour. 28	Romekin 53 Romist 78	Rosewort 89
Nelson 451	Namelus 200	Pioneer 492	Donaine 00	Domist 70	Roslerucian 89
NC13011 201	Nonprus 322	Figua 492	1.0at ing 28	Nomist 18	Nosici ucian 89
Nemesis 201	Nonsence 322	Pittsheld 492	Roaringereek 28	Romp.,,,,, 78	Rosied 90
Neola 451		Piqua 492 Pittsfield 492 Plainfield 492	Rour 28 Roaring 28 Roaringcreek 28 Rob 28	Rondeau 78	Rosewort 89 Roslerucian 89 Rosled 90 Rosler 90
Neola	Noon . 322	Plainview 492		Rondeau 78 Roudel 78	Rosler 90 Rosln 90
Nerve 201	Noondon	Plano 492	Roberts 28	Ronga 78	
	Noon 322 Noonday 322 Nora 454 Norcross 454		Roberts 28 Roberts reek 28	Rouga 16	Rosiness 90
Nerveless 291	Nога 454	Plattville 492	Robertsereek 28	Ront 78	Rosiny 90
Nervine 291	Norcross 454	Player 493	Robin 28	Rood 71	Rosinoil 90
Netvous 291		Plymonth 499	Robinet 94	Roofing 11	Resland 90
Norvouely 901	Normal out	D and and the	Robinsdat 28	Roofless 11	Poemarino 00
Nervous	Normai 322	Plover	Robin 28 Robinet 24 Robinsdat 28	Rooness 11	Rosiness 90 Rosinoil 90 Rosland 90 Rosmarine 90
Nest 291 Nestle 291 Nettlng 292	Normal 322 Norman 454 Northerly 322 Northern 322 Northward 322	Polk	RODIESOB 28	Romers 58 Romers 78 Romers 71 Romers 11	
Nestle 291	Northerly 322	Pomerov 493	Robust 13	Rookery	Rossell 90
Netting 292	Northern 322	Pomona 493	Rochet 13	Rookery 11	Rosselly 98
Nettle 292	Northword 999	Dones 400	Pool: 99	Pooler 11	Rossignol 98
Manual Con	Northward 322	Tonea 495	Rock 28 Rock day 48	1100Ky 11	Duest Street
Neurai 292	Norton 457	Ponquet 493	ROCK day 48	Room 11	nost 97
Neural 292 Neuralgia 292	Norton 497 Norwalk 457 Norway 457 Norwich 457 Nosegay 322 Noselogy 322 Nostrum 322 Nostrum 322	Ponca 493 Ponquet 493 Pontiac 493	Rockaway 46 Rockbridge 28	Rook 11 Reokery 11 Roeky 11 Room 11 Roomer 75 Roomer 75	Rost 97 Rostel 91 Rostelate 91
Neuter, 292 Neutral 292 Neutralize 292	Norway 457	Poplar 498 Portage 493 Posey 493 Potesi 493 Potsdam 478	Rockbridge / 28		Rostelate 91
Nontrol 2002	Monutals 457	Destruction	Rockcok 46 Rockcourt 46	Roomful 68	Roster 91 Rostral 91
Nontrollan 000	1101 WICH 401	Foltage 450	Rockcourt 46	Describer 60	Puotrol 01
Neutranze 292	Nosegay 822	Posey 493	Rockeourt 46	Reomily 68	nostrai 91
Nevada 451	Nosology 322	Potosi 493	Rockcork 46	Roomily 68 Roominess 68	Rostrate 91
Newark 451	Nostrum 322	Potedam 493		Roomless 68	Rostrum 91
Newborn 451	Notable . 999	Powell 493	Rockeress 47	Roomsome 68	Rosulate 91
Newburn 454 Newbury 454	N. tublu (200	D	Rockeut 28	Roomth 68	Rot 91
146 W Dully 404	Motably 322	Tratt 403	110CKCut 20	noomen 00	Dot.
Newt	Notarial 322	Preble 493	Rockeress	Roomless 68 Roomsome 68 Roomth 68 Roomy 72 Room 72 Rooms 72 Rooms 72 Rooms 73 Rooms 74 Rooms 75 Rooms	Rostrum 91 Rosulate 91 Rot 91 Rota 91
Newton 454	Notary 322	Prentice 493	Rockd=e 47	Roon 72	Rotal 91
Next 292	Notable 322 Notable 322 Notably 322 Notarial 322 Notary 322 Notary 322 Notation 322 Notable 322 Notable 322 Notable 322	Pratt 493 Preble 493 Prentice 493 Prescott 493 Pritchards 493	Rocketm 28		Rotalite 91
Vincers 454	Nutah 900	Pritalparde 109	Rocker 47	Roorbach 72	Rotary 91
Nimptio 101	N-4-	Triculatus 493	Rocker 47 Rockery 47	Roosdoil 72	Potorynumn of
Maittie 454	Note		nockery 47	ROOSGOIL 12	Rotarypump 35
N10010 292	Notebook 322	Provo 493 Pueblo 493	Rocket 47	ROOST 72 1	Rotascope 91
Nibbler 292	Noted 322	Pueblo 493	Rockfalls, 28	Roostcock 72	Rotate 35
Newton 494 Next 292 Ningara 454 Niantic 454 Nibble 292 Nibbler 292 Nice 2,12 Nicely 292 Nicely 292	Note 322 Notebook 322 Noted 322 Notify 487		Rocket	Rooster 53 1	Rotatscope
Nicely	Notion 407		Rockfish 47	Root 83	Rotateplane: 35
31cety 292	Notion 487	R	Rockgoot 47	Routeron 83	Potetion 05
Nicety 292]	Nonn 438		Rockgoat 47	no terop 83	Rotation 35
Niche 292	Novel 438	Radeliff 9	Rockhill 28	Root 83 Rooterop 83 Rooteater 84	Rotation 35 Rotative 35 Rotator 35
Nicety 292 Niche 292 Nichols 454 Nick 292 Nickel 293 Nickenseks 293	Novel 438 Novelist 438	Ra20 9	Rockhill 28 Rockland 26 Rockless 48	Rooter 84	Rotation
Nick 999	Novelty 438	Raleigh 10	Rockless 48	Roothair 84	Rote 35
Niekol 000	Novemy 400	Ralston 10	Rockling 48	Roothouse 84	Rotgut 35
Nicknacks, 293	_	Raiston 10	Rockmilk 48	Rootleaf 84 Rootless 84 Rootlet 84 Rootstock 84	Rotherbeasts 35
Nicknacks, 293	0	Kamer 12		Rootieat 64	nother beasts 33
Nickname 293	_	Ramer 12 Randolph 12	Rockmoss 48	Rootless 84	Rothernall 35 Rothersoil 35
Nicelleti 454	Oakdale 457	Rankin 12 Rankinville 12	Rockoil 48	Rootlet 84	Rothersoil 35
Nictate 293		Rankinville 12	Rockpie 26	Rootstock 84	Rotifer 35
Nigtotion 202	Oultford 457	Rankleigh 12	Rockpie 26 Rockplant 43	Rooty 84	Rotiform 95
Mistarta 200	Oaktoru 401	Rankleigh 12	Rockriver 26	Rooze 84	Rotten 35
Nickliane 293 Nicelleti 454 Nictate 293 Nictation 293 Nictitate 293 Nictitate 293 Nictitation 298 Nicellation 298	Oakford 457 Oakland 457 Oaklawn 457 Oakville 457 Oakville 457 Oakwood 457 Obeida 457	Rapidan 12 Ravenswood 12	ROCKIIVET 26		Rotten 35 Rottenly 35 Rotteness 35 Rottenstone 35
Nictitation 293	Oaklawn 457	Ravenswood 12	Rockrose 48	Ropalie 84	Rottemy 35
	Oakville 457	Rawlins 12	Rockruby 49	Rope 85	Rotteness 35
Niece 293 Niggard 293 Niggardly 293	Oakwood 457	Raybarn 13	Rocksalt 49 Rockshaft 49	Rope	Rottenly 35 Rotteness 35 Rottenstone 35
Niggord 203	Obeida 457	Raymond 13	Rockshaft 49	Ropedancer 85	Rotular 36 Rotund 36
Niggard 200	Oberda 457 Ocenn 457 Ocento 457 Otley 454 Otsego 454 Ottawa 454 Otto 459 Ottunwa 459 Ottunwa 459 Ottunwa 459	Danta 10	Rockshell 49	Ropeladder 85	Rotund 36
Niggardiy 293	Oce:in 457	Rector 13 Redding 13 Redfie 13 Redfieid 13		Robelauder 65	Datumdo 00
Nigh 298 Nighness 294	Oconto 457	Redding 13	Rockside 26	Ropery 85	Rotunda 36 Rotundity 36
Nighness 294	Otlev 454	Redfie 13	Rocksonp 49 Rocksprings 26	Ropemaker 85	Rotundity 36
Night 294	Otvorro 454	Rodfield 13	Rocksprings 26	Ropemat 85	Rotundo 36
Nightean 294	Otsego	Redford 13		Ropemat	Rotundo 36 Rouanne 36 Rouble 36
	Ottawa, 454		Rockton 26	Ropewalk 85	Rouble 36
Nightfall 294 Nighthawk 294	Otto , 454	Redmon 13	Rockton 26 Rockville 26	Ropewark 85	Konole 36
Nighthawk 294	Ottunwa 454	Redoak 13 Redwood 13 Reed 102 Reedless 102 Reeling 102 Reeling 102	Rockville 26	Ropeyarn 85	
	Overton 454	Redwood 13	Rockwood 49	Ropiness 85	Roue
Nightly 294 Nightmare 294 Nightshade 294	Oxid 454	Road 109	Rockwork 50	Ropish 85	Rouet 36
Vieltmore 901	Ovid 454	Roodloce 100	Rocky 50	Ropy 86	
Nightmare 294	Owego 454	Recutess 102	Rockyrm 26	Roque 86	Rough 36
Nightshade 294	Owego 454 Oxford 454	Reehng 102	Rockyrun 26	Roque 36	Rough 36 Rougheast 36
Nightwatch 294	,	Reese 12	Rocky 50 Rockyrum 26 Rocoa 50	Roral 86	Rougheast 36
Nihility 294	P	Regina 12	K00 27	Ropy 86 Roque 86 Roral 86 Rorid 87 R-riferous 87	Roughcaster 36
Niloc 464	P	Renfree 12	Rodaim 27	Reriferous 87	Roughdraw 36
NIICS 409	Th26-	Renfrew 68	Rodbarn 27	Rorifluent 87	Roughen 36
N100 487.	Pacine 491	Remrew 66	11 1-1-1-1	Normal	Roughf oted 36
Nihility 294 Niles 454 Nimb 487 Nimble 294 Nimbs 487 Nimble 887 Nimbleness 487	Pacific	Renfree	Rodcity 27 Rodcorner 27	Rorqual 87 Rorulent 87	Roughen 36 Roughf oted 36 Roughhewed 36
Nimous 487	Pagne 492	Reno 12		Rorment 87	Rouginewed 36
Nimbleness 487	Paige 491	Renova 12	Roddy · 27 i	Rory	Rougnnewer 36
Vina 461	Paidey 401	Rensen 64	Rode 50	Rory 87 Rosary 87	Roughnewn 36
Nina	Dalam 401	Revere 12	Rode 50 Rodent 51	Roscid 88	Roughings 36
Minerolu 487	Pajaro 491 Palistine 491 Palisade 491 Palmer 491 Palmyra 491	Revere 12 Reynolds 16 Richford 33	Rodent 51 Rodfarm 27	Rose 88	Roughish 36
minepins 487		neynoius 16	Rodge 51	Rose 88	Roughish 36 Roughlegged 36
Ninny 487	ransade 491	пісптога 33		105C.11	Roughly 36
Nip 487	Palmer 491		Rodgeship 51	Roseate 88	
Nippers 487	Palmyra 491	Richland 33	Rodgun, 27	Rosebay 88	Roughness 36
Ninny 487 Nip 487 Nip 487 Nippers 487 Nipton 454	Palo 491	Richmond 33	Rodhill 27	Rosebug 88	Roughrider 36
Niter 487	Popp 101	Richview 33	Rodgun,	Rorulent	Roughsenff 36
	Pana 491 Panama 491	Richview 33 Richwood 33	Rodmill 97	Rosecumpion 94	Roughshod 36
Nitid 487	ganama 491	michwood 33	Rodmill 27 Rodmont 27	Rosechafer 88	Roughshod 36 Roughstrings 36
Nitid 487 Nitrate 487	Panora 491 Panting 102	Ridge	Rodinont 27	Rosechafer 88	Dougharings 30
Nitrie 487	Panting 102	Ridgeread 33	Roquey 27	Rosecolor 88 Rosecolored 88	Ronghwork 36
Nitrogen 487	Paola 491 Paradise, 491	Ridgeton 33	Rodney 27 Rodomel 51 Rodpoint 27	Rosecolored 88	
Nitrons 487	Danidica tot	Ridgeville 34	Rodpoint 27	Roscent 88	Rouk 36
	Paragon 491	Ridgevine 34		Rosediamond 92	Roulade 36
Nobility 487	Paragon 491	Ringeway 34	110011100 24	Rosedrop 92	Reulean 36
Noble 487 Nobleman 487	Parham 491	Ridgewood 33	Rodpord 27 Rodshoot 27	поэсчгор 92	Doubetto 20
Nobleman 487	Paris 491	Riley 34	Roashoot 27	Roscengine 92	Rouletto 36
Nobleness 497	Parkdale 401	Ring 32	Rodstick 27	Rosedrop 92 Roseengine 92 Rosefish 92	Rouk 36 Roulade 36 Roulean 36 Rouletto 36 Roune 36
Nobleness 487 Noblesse 487	Parker 401	Ringle 32	Rodtown 97	Rosefly 92	
NUUIUSSU 407	Danning for	Ringwell 11	Rodfree 27	Rosegall 92	Rounceval 37
Nobly 487	Parham 491 Paris 491 Parkdale 491 Parker 491 Parma 491	Ringle	Rodville 27	Roschead 92	Round 37
Nobly 487 Nocturnal 323		Ringwood 14		Rosensti 92 Rosensty 92 Rosegati 92 Rosehend 92 Roseknat 92 Roselako 92 Rosemary 95	Roundeval. 37 Round 37 Roundabout 37
Nod 323 Noddle 323 Noddy 323		R1	Roestono 51	Roselako 92	Popullinal 31
Noddle 323	Pasco 491 Pascale 491 Patoka 492 Paton 492 Paton 492	Rio 14	Rogne or	козстако 92	Roundback 37 Roundel 37
Noddy 999	Passale 491	Rlo Breek 32		Roselite 92	Konndel 37
Noda 323	Dutoka 400	Riple 32	Roke 52	Rosemary, 95	Roundelav 37
Noue 323	Datas 402		Rokeage 52	Rosen 95	Rounder 37
Node 323 Nodule 323 Nogglu 323 Nolse 323 Nolse 454	Faton 492		Role 52	Rosen 95 Rosenable 95	Rounder 37 Roundhead 37
Nogglu 323		Ripleyville 14	Role	Roseloa 97	Roundhouse 37
Nolse 323	Pauline 492	Ripo	Rougan b2	Roseloa 97 Roseplnk 97 Rosequarts 97	Doundlag 07
Nolln 451	Pavillion 492	Ripon 14	Roller 52	козерінк 97 [Rounding 37
Nollii 454	Paranao 300	Rising 32	Rollerbolt 52	Rosequarts 97	Roundish 37
Nonia 494	Danifordert 100	Ritchio 14	Rotlermill 52	Roser 97	
Nomagie 322	Pauline 492 Pavillion 492 Pawnee 492 Pawtucket 492 Paxton 492 Payson 492		Roller	Roser 97 Roseroot 97	Roundly 37
Nomenciature 322	paxton 492	Riverdane 32	Rollingpin 52	Rosery 97	Roundness 97
Nominal 322	Payson 492	Ritrock 32 Riverdane 32		Royat 67	Roundridge
Nominate 399	Peabody 492	Riverfalls 32	Romage 53	Rosery 97 Roset 97 Rosetta 97	Roundly
Noma	Paxton 492 Payson 492 Peabody 492 Plko 492	Riverfalls 32 Riverhead 32	Romage 53 Roman 53	nosetta 97	Monneshoulder., 112
Aonago 322	1 1100 22.11 14.11 21 70.00	1			

PAGE.	PAGE.	PAGE.	PAGE.	PAGE.	PAGE.
Roundtrade 112		Rushring 123	Saccholactate 126	Salivation 139	Salvor 162
Roundtray 112	Ruddy 119 Rude 119	Rushy 123	Saccholote 126	Salivation 139 Salivous 139	Salvor 162 Salygen 139
Ram 119	Produdelphino 110	PAGE	Saccholote 126 Sacchulmic 126	Salix 139	Sam 162 Samara 162 Samaroid 162
Roup	Rudely 119 Rudeness 119 Rudenture 119 Puderary 119	Rusma 123	Sacciform 126	Salix	Samara 169
Pousa 119	Pudonose 110	120ce 123	Succomys 126	Sallanders 139	Samaroid 162
Daniel 110	The least and 110	Discortt. 139	Saccular 126	Sallet 120	Samuro 102
Rouser 112	Ruderary . 119	Dagasting 199	Specula 196	Sullating 190	Samare 163 Samaritan 163
Rousing 112	Ruderary 119 Ruderation 119	Russetting 123	Sacque 70	Salieting 133	Cambo 163
Rouse 112 Rouser 112 Rousing 112 Rousingly 112	Ruderation 119	Russialeather 123	Sacque 10	Sallet 139 Salleting 139 Salliance 139 Salliance 139 Sallow 139 Sallowness 130 Sallowthorn 139	Sambo 176 Sambuke 176 Sameness 176
Roust	Rudesby 119 Rudiment 119	Russialeather 123	Sacrai 70	Sallow 139	Sambake 176
Roust 112 Rout 112 Route 112 Routine 112 Routine 112 Routine 112	Rudiment 119	Russia. 123 Russian. 123	Sacral	Sanowness 139	Sameness 176
Route 112	Rudish 119 Rudity 119	Russian 123	Sacramental 70	Sallowthorn 139	Samester 164
Routine 112	Rudity 119	Rust 123	Sacrarium 70		Sameth 164
Rontously 112	Rue	Rustful 123	Sacrate 70	Sallylunn 139	Samian 164
Rove 112	Rueful 119	Rustic 123	Sacre 70	Sallyport 139	Samill 164
Rover 112	Puefully 119	Rustical 123	Sadah 124	Salmagundi 139	Samiot 164
Rove 112 Rover 112 Roving 112 Rovingly 112 Rovingsness 112	Rue	Russian 123 Rust 123 Rustful 123 Rustic. 123 Rustical 123 Rustical 124 Rustical 125 Rustical 127 Rusticate 127 Rustication 123 Rustication 123 Rustication 124 Rustication 125 Rusticati	Saddlehorse 105	Sallylunn 139 Sallyport 139 Sallyport 139 Salmagmidi 139 Salmiac 139 Salmis 139 Salmion 139 Salmon 139 Salmonoid 139 Salmonoid 139 Salmonopeel 139 Salmonopic 139	Samester 164 Sameth 164 Samian 164 Samill 164 Samiot 164 Saminarra 162 Sammar 170
Ravingly 119	Pufescent 119	Pustiente 123	Saddler 105 Saddleroof 105	Salmis 139	Sampan
Ravingenoes 119	Puff 119	Rustication 123	Saddleroof. 105	Sulmon 139	Samphine 170
Poringshes, 112	Duffed 110	Procticity 199	Saddlery 197	Sulmon 120	Campline 170
Rovingshot 112	Nulled 118	Rusticity 123 Rustiness 123	Saddle bound 197	Colonorold 100	Camples
Rowapie 112	Kuman 119	Tristiness 123	Co.l.Hotros	Salmonord 139	Sampler 170
Rowantree 112	Kumanism 119	Rusting 123 Rustjoint 123	Saddlery 137 Saddleshaped 137 Saddletree 137 Saddneaie 137	Samonpeer 139	Samsino 170
Rowingshot 112 Rowalbe 112 Rowantree 112 Rowboat 112 Rowdyish 112 Rowel 112 Rowel 112 Rower 112 Rower 117 Rower 117 Rower 118 Rower 119 Rower 119	Rufescent 119 Ruffed 119 Ruffed 119 Ruffian 119 Ruffianism 119 Ruffianism 119 Ruffianons 119 Ruffianons 119	Rustjoint 123	Saddneare 137		Sample
Rowdyish 112	Rumanons 119	Rustle	Sadducean 137	Salmontrout 139	Samsone 170
Rowe 112	Ruffle 119	Rustler 123	Sadducee 138	Salon 139	Samsonpost 170
Rowel , 112	Ruffle 119 Ruffler 119 Rufflers 119 Ruffletess 119 Rufflement 119	Rusty 123	Sadducee 138 Sadduceeism 138	Saloon 139	San 171 Sanability 170
Rowen 112	Ruffleless 119	Rut	Sadducism 138 Sadducize 138 Sadiron 236	Saloop 139	Sanability 170
Rower 112	Rufflement 119	Rutabaga, 123	Sadducize 138	Salop 139	Sanable 170 Sanableness 170
Rowett 112	Rufous 119	Rutaceous 123	Sadiron 236	Salpa 139	Sanobleness 170
Rower	Ruft 119	Ruth	Sadiv 236	Salimontruit. 139 Salon 139 Saloon 139 Saloon 139 Saloop 139 Saloop 139 Salpa 139 Salpa 139 Salpia 139 Salpia 139 Salpia 139 Salsify 139 S	Sanation 170
Rowlock 112 Rowport 112	Rufterhood 119	Ruthenium 123	Sadness 236	Salpicon 139	Sanative 170
Rowport 112	Rug 119 Rugate 119 Rugged 119 Ruggedly 119 Ruggedless 119	Ruthful 124	Sadr 236	Salsafy 139	Sanativeness 171
Roya 112 Royal 52 Royalet 112 Royalism 112	Rugate. 119	Ruthfully 194	Safe 199	Salses 190	Sanatory
Royal 59	Rugged 119	Ruthless 194	Safe	Sulsilla 140	Sanatory 171 Sanbenito 171
Povolat Co	Duggedly 110	Dutidocie 101	Safekeeping 183	Saleonald 140	Sangahall 171
Parallent. 112	Buggetty 119	Posti	Safeguard *00	Calcada 140	Sancebell 171 Sanctebell 171
Royalishi 112	Ruggedness 113	Kutii, 124	Sateguaru 182		Sancteben 171
Royalist 112 Royalize 112		Ruthful 124 Ruthfully 124 Ruthless 124 Ruthlosis 124 Rutil 124 Rutilant 124 Rutilant 124	Safekeeping	Salsolaceous 140	Santificate 171 Sanctification 171 Sanctimonious 171
Royalize 112	Ruggoon 120 Ruggooned 120		Sainthood 93	Salsuginous 140	Sanctification 171
Koyally 112	Ruggooned 120	Rutile 124		Salt 140	Sanctimonious 171
Royally 112 Royalty 112	Ringgooned 120 Ringgooned 120 Ringgooned 120 Ringgin 120 Rin	Rutile 124 Rutter 124 Rutterkin 124 Ruttialmess 124	Saintlike 102 Saintliness 102	Salt 140 Saltant 140 Saltarello 140 Saltate 140 Saltation 140 Saltatorial 140 Saltatorial 140	
Royary 112 Royn 52 Royne 112 Roynish 113 Roysterer 113 Roysterer 113 Roystelet 113	Rugin 120	Rutterkin 124	Saintliness 102	Saltarello 140	Sanction 171
Royne 112	Rugine 120	Ruttialiness 124	Saintly 102 Saintologist . 100-192	Saltate 140	Sanctionary 171
Roynish 113	Rugose 120	Ruttier 124 Ruttish 124	Saintologist., 100-192	Saltation 140	Sanctitude 171
Roysterer 113	Rugulose 120	Ruttish 124		Saltatorial 140	Sanctify 171
Roystererow 113	Ruin 120	Ruttle	Sajene. 190 Sajene. 194 Sacker 184 Sackeret 184 Sackeret 184 Salatine 184 Salabie 192 Salade 192 Salade 192 Salade 192 Salade 192 Salade 193 Salade	Saltatory 140	Sanctum 171
Roytelet 113	Ruinable 120	Rutty 194	Suke . 184	Saltatory 140 Saltcake 140	Sancture 121
Portick (12	Puiusto 190	Deal 194	Sackor 194	Salteat 140	Cand 171
Pu 102	Duination 198	Direct 104	Cueltonet 101		
Ru	Duines 100	Dudon 101	Colsi 104	Saltcellar 140	Sånda 171 Sandalid 197 Sandaliform 197
1010adub 113	Kumer 120	Kyder 124	Sakt 184	Salter 169 Saltern 169 Saltfast 169	Sandalid 197
R100110 113	Rumorm 120	Rye 124 Ryegrass 124	Sai 184	Saltern 169	Sandaliform 197
Embbage 114	Ruinously 120 Ruinously 120 Ruinousness 120	Ryegrass 124	Salaam 184	Saltfast 169	Sandarac 197
Rubber 114	Rumously 120	Rynchops, 124	Salable 184	Saltfish 169	Sandarach 197
Rubbidge 114	Ruinousness 120	Rynd 124	Salably 184	Saltfish 169 Saltguage 169	Sanjek 173
Rubbidge 114 Rubbidge 114 Rubbigo 118	Rukh 120 Rulable 120	Rynchops. 124 Rynd 124 Ryth 124 Rytma 124	Salacious 192	Saltgreen 169 Saltierwise 169	Sandantorm 197 Sandarae 197 Sandaraeh 197 Sanjek 173 Sank 173 Sandmyrtle 173 Sandmartin 173
Rubbish 114 Rubbishly 114	Rulable 120	Rytma 124	Salaciously 192	Saltierwise 169	Sandmyrtle 173
Rubbishty 114	Rule	,	Salacity 192	Saltigrade 169 Saltimbanco 169	Sandmartin 170
Rubble 114	Ruleless 120	S	Salad 192	Saltimbanco 160	Sandhaner 179
Rubble 114 Rubblestone 114	Ruler 120 Ruling 120 Ruling 120 Rulingly 120 Ruttichies 120	•	Salada 199	Salting 169	Sandpaper 173 Sandpiper 173 Sandpiper 173 Sandpride 173 Sandrock 173 Sandsmelt 173 Sandstar 173
Rubblewall 114 Rubblework 114	Ruling 120	Sa . 101	Salading 109	Salting 169 Saltire 169	Sanupiper, 173
Rubblework 114	Polingly 190	Sa	Colomundon 190	Sattire 169	Sanupride 173
Rubbly 114	Duttialing 100	Cabalilla 104	C. lamandina	Saltish	Sandrock 173
Rubbly 114 Rubedinous 114	Dude tuo	Sabauma 124	5.namandine 189	Saltishly 169	Sandsmelt 173
Rindedinous, 114	Ruly 120	Sabaean 124 Sabaeanism 124	Salamandroid 189	Saltishness 169	Sandstar 173
Rubefacient 114	Rum 120 Rumble 120	Sabacanism 124	Salamangu 186 Salamstone 186	Sanjunk 169	Sandstone 173
Kubente 118	Rumble 120	Sabaism 124	Satamstone 186	Saltless 169	Sandstorm 173
Rubeola 118	Rumbler 120	Sabal 124	Salarled 185	Saltlick 169	Sandtube 173
Rubescence 118	Rumblingly 120	Sabasia 125	Salarled 185 Salary 185	Saltly 169	Sandwasp 173
Rubelite	Rumbler 120 Rumbler 150 Rumblingly 120 Rumbnd 120 Rumen 121 Ruminant 121 Ruminant	Sabal 124 Sabasia 125 Sabatia 125	Sale 185 Salebrous 185 Salep 187 Saleratus 183	Saltly 169 Saltmarsh 169	Sandstar 173 Sandstar 173 Sandstone 173 Sandstorm 173 Sandstorm 173 Sandwasp 173 Sandwasp 173 Sandworf 173 Sandworf 179
Rubican 118	Rumen 120	Sabbat 125	Salebrous 185		Sandworm 173
Rubican 118 Rubicelle 118 Rubicund 119	Ruminal 121	Sabbat 125 Sabbatarian 125	Salep 187	Saltness 169	Sandwort 179
Rubicund 113	Ruminant i21	Sabbatic 125	Saleratus 182	Saltpan 169	Sandwort 173 Sandy 173
	Ruminate 121 Rumination 121	Sabbatism 125	Sateswan 197	Saltness 169 Saltpan 169 Salt Pen 169 Saltperlate 169	Sane 173
Rubifie 118 Rubiforme 118	Rumination 121	Sabbatous 195	Saleswan 187 Salework 187	Saltperlate 169	Sane
Rubiforme 118	Ruminator 121 Ruminseh 121 Rumikin 121 Rummage, 121	Sabbine 125 Sabeau 125 Sabelsm 125	Sali 179	Saltpeter 169	Sunor
Rubify 118	Ruminsch 121	Sabeau 195	Saliant 188	Saltpeter 169 Saltspring 133	Saugargo 170
Rubify 118 Rubiginous 118	Rumkin 121	Sabelsm 125	Salic 199	Saltwater 123	Superfroid:
Rubline 118	Rummage. 191	Sabella 125	Salica 179		Supring
Rubline 118 Rubrous 118 Rubric 118 Rubrical 118 Rubricalee 118 Rubridate 118	Rumney	Sabella 125 Sabellana 125	Sali 178 Saliant 188 Salic 188 Salica 178 Salica 188 Salica 188 Salica 188	Saltwork 133	Sangaree 173 Sangaree 173 Sangaree 173 Sangiae 174 Sangiae 174 Sangiae 175 Sangiae
Rubric	Rummons	Sabellian 125	Salacina tet	Saltwort 133 Saltv 133	oangreai 173
Rubrical	Rumorer		Salacine 181 Salicomia 181	Calify 133	pangniner 173
Rubriento	Rumney. 121 Rumnens 121 Rumerer 121 Rumeres 121	Saber, 125	Saticomia 181	Salubri 133	Sanguity 173
Rubrician 118	Punni	Sabian 125 Sabianism 125	Salicylic 182 Salicylous 182 Salicnee 182 Salient 139 Salienty 139 Saliferous 139 Saliferous 139	Saltwork 133 Saltwort 133 Salty 133 Salubri 133 Salubrious 133 Salubriously 133 Salubrity 133	Sanguiner 173 Sanguiny 173 Sanguinary 173 Sanguine 173 Sanguineless 173
	Pompar	Captains 125	Salicylous 182	Salubriously 133	Sauguine 173
Rubrielst 118 Rubstone 118	Number 121		Salience 182		Sanguineless 173
nuostone 118	Kumpicu ., 121	Sable	Sauent 139	Salutarily 133	Sanguinely 173
100018 118	18mmbie 121	Sablemonse, 125	Saliently 139	Salutariness 133	Sauguinity 173
Rubus 118 Ruby 118 Rubylall 118 Rubywood 118	Rump 121 Rumper 121 Rumpfed 121 Rumple 121 Rumple 121 Rumpleless 121	Sabliero 125 Saboath s 124 Sabot 125 Sabulons 125	Saliferous 139	Saintary	Sanguinely 173 Sanguinely 173 Sanhedrim 173
Empyfall 118	Runer 122	Saboath 124	Salifiable 139	Salutation 124	Saniele 179
Kubywood 118	Rung 122	Sabot 125	Salification 139	Salutatoriam 169	Saniele 173 Sanies 173
	Runghead 122	Sabulons 195	Salify 190		Surious 173
Ruck	Rung 122 Runghead 122 Runde 122 Runde 122 Rundet 122 Rundet 122 Rundet 122 Rundet 122 Rundet 122 Runder 122 Runder 122	Sac 195	Salify 139 Saligat 130 Salina 139	Salutatory 168	Sanious
Ructation 118	Runlet 199	Sae	Salina 190	Salute	Camitarist 173
Rud 118	Runnel 199	Speciale 195	Saline too	Samter 168	Sanitarium 173
Rudder	Rumet	Speculo 120	Salinonase 139	Saintiferons 178	Samtary 173
Ruddereout	Running 122	Saccate 125 Saccharle 125 Saccharlfous 125	Saline 139 Satineness 135 Sallneferous 139		Sanity 173 Sapindus 175
Ruddorhead 118	Paradon 122	Sandbudford	Sallueferous 139	Salvable 178 Salvableness 178	Sapindus 175
Ruddorlass ***	Punt 122	Sacculations 125	Salluform 139 Salluometer 139	Saivableness 178	Sapling 140 Saponaceous 140
Rudderless 118 Ruddernall 118		Saccharify 125	gaimometer 139	Salvage 178 Salvatella 178	Saponaceous 140
Puddamala 118	Rupee 122 Rupellary 122	Saccharitla 125	Salique 139 Salique	Salvatella 178	Saponacity 140
Partitioners 118	napenary 122	Saccharimety 125	Salique 139	Salvation 178	Saponary 140
Ruddernole 118 Rudderpants 118 Rudderslock 118	Rusher	Saccharine 126	Saljte 139	Salvatory 178	Saponary 140 Saponifable 140
Engderstock 118	R0802 rass 123		Saliva 139	Salvation	Sauonify 140
Kuadied 118	Rushiness 123	Saccuarmeter 196 3	Saltval 139	Salver 178	Sahonine
Emidie 118	Rushingly 123	Saccharoid 126	Salivant 139	Salvershaned 178	Saponule
Ruddle	Rushlight 123 Rushlike 123	Saccharoid 126 Saccharoidal 126	Salipie 139 Saliva 139 Saliva 139 Saliva 139 Salivant 139 Salivary 139 Salivary 139 Salivate 139	Salver 178 Salvershaped 178 Salvific 178 Salvo 178	Saponify 140 Saponine 140 Saponule 140 Sapor 140 Sapor 140 Saporific 140
Kuddock 118	Rushlike 123	Saccharnin 126	Salivate 139	Salvo. 179	Saporific
					2000 mc 140

PAGE	· PAGE.				
Saporosity 140	Satirize 328	PAGE.	PAGE.	PAGE.	PAGE.
Galorosity 140	Satirize 328	Savor 170	Scentless 347	Seckel 265	Serve 219
Saporous 149		Savori 324	Scepter 347 Sceptered 347	Secinde 265 Second 265	Serve 219 Servente 316 Service 219 Servile 219
Sapota 140		Savori 224	Scentered 347	Second 265	Service 219
Sappare 140	Satisfactorily 328 Satisfactory 328	Savorinose 170	Sceptie 347 Schedule 347 Schemation 347 Schematist 247 Scheme 347	Second 215	Servile 219
Sapplic	Satisfactory 2.8	Envant 014	теерие очт	150 C.I.C	Servitor
Samble 140	Satisfiable 328	54 VOI 324	Schedule 347	Secretary 265	Servitor 219
Sappide 140		Savoriess 170	Schemation 347	Secrete 265	Servitude 219
Sappiness 140	Satistier 328	Saverly 170	Schematist 247	Sect 265	Session 219
Sappy 140 Saproller 140		Savorous 170	Scheme 347	Sectile 265	Sessuool 919
Saproller 140	Sative	Savory 170	Schomor 917	Section 265	Setaceous 219
Saprot 961	Satran 900	Panarul and	Schemer 347	13 CC [1011	getaceous 213
Noveleall 001	Satisfy 025	Savory1	Schemist 347	Sector 265	Sete 219
Sapskiii 201	Satrapar 328	Savoy 170	Schism 347	Secular 265	Setor 219
Sapsogo 261	Satrapess 328	Savoyard 170	Schismatic 347	Secure 265	Settee 219
Sarcocal 157	Satrapess 328 Satrapical 328	Saw 170	Schist 347	Sedan 265	Settler 219
Sarcode 157	Satrany 328	Saw. 170 Sawdust 3:4	Schism 347 Schismatic 347 Schist 347 Schist 348 Schistons 348	Sedate 965	Sever 210
Sarcodern 179	Sultustone 997	Cand out	Politicons	Sedative 265	Savanal 010
Saprot 261 Sapskull 261 Sapsull 261 Sapsull 261 Sarcode 157 Sarcodem 179 Sarcodem 170 Sarcodem 170	Satrapy	24 WI 324	Schittose 347	Sedative 205	Beveral 219
Sarcold	Saturable 328	Sawl 324 Sawmill 324 Sawpit 324 Sawset 324	Scholar 348	Sedate 205 Sedative 265 Sedeutary 265 Sedge 265 Sediment 265 Sediment 265	Sefaceous 219
Sarcoiemina 175	Saturant 328	Sawpit 324	Scholarly 348	Sedge 265	Severe 219
Sarcologie 180	Saturate 328	Sawset 324	Scholastic 348	Sediment 265	Severity 217
Sarcologie 180 Sarcologist 180	Saturate 328 Saturation 328	Sawver 394	Scholiast 348	Sedition 265	Sewer 217
Sarcology 179 Sarcomatus 253	Saturity 328 Saturn 328 Saturnalla 328 Saturnallan 328	Sawyer 324 Sawyer 324 Sawifrage 324 Saxon 3:4 Saxonism 324 Scab 324 Scabbard 324 Scabbard 324 Scabbard 324	Schistons 348 Schiolar 348 Scholarly 348 Scholastic 348 Scholiast 348 Scholium 348 Scholium 348 Scholium 348	Seduce 265	Sewer 217 Sextile 217
Sarcomatue 959	Suturn	David Co	Delionali 345	Sedulous 265	Sextne 217
En Pouron	C turnell	54.5011	School, 348 Schooling 348 Schooner 343	Seditious 200	Sexton 217
Sarcoma 253 Sarcophagus 253	S 959	Saxonism 324	Schooling 348	5eed	Sitabby 217
Sarcophagus 253	Saturnanan, 328	Scab 324	Schooner 348	Seedy 265	Shackle 217
Sarcopnay 253		Scabbard 324		Seek 265	Sexton. 217 Shabby 217 Shackle 217 Shadow 217
Sarcophay 253 Sarcophgan 253 Sarcorampus 253		Seabby 324	Sciatic 348	Seem 265	Shaft 217
Sarcorampus' 253	Saturnine 328	Scabbed 324	Sciatica 348	Seemly 265	Shag 217
Sarcosis 253	Satur 328	Scubinose 974	Science 348	Soon 265	Shauer 217
Sarcotic 953	Saturnian 328 Saturnine 328 Satyric 328 Sau 328 Sauce 328 Sauce 328 Sauceb 328 Saucebox 160 Saucebox 328 Saucepox 328 Saucepox 328	Sanhioue 904	Sciatic. 348 Sciatica 348 Science 343 Scientific 348	Sediment 265 Sedition 2e5 Seduce 265 Sedulous 265 Seed 265 Seed 265 Seek 265 Seek 265 Seem 265 Seem 265 Seem 265 Seen 265 Seer 265 Seer 265 Seet 265 Seet 265 Seet 265	Shab 217
Sarculation 253	Sat 110 328	Seablous 324	Calliant 348	Seet	Shali 220
Sard 259	Gau 328	эсаогонз 324	Schicet 348		Впаке 220
Sard 259	gauce 328	Scatfold 343	Scimitar 352	Segneurial 213	gnate 220
Sard 259 Sadachate 259 Sardan 259	Sauceb 328	Scagliola 343	Scimiter 352 Scintillant 352	Segregate 213 Seignior 213 Sei niory 213	nallop 220
Sardan 259	Saucebox 160	Scalable 343	Scintillant 352	Seignior 213	Shallow 990
Sardel 259	Sauceboxy 398	Scalade 343	Scintillate 352	Sei niory 913	Sham 990
Sardine 959	Saucepan 160	Scald 949	Scioliem 352	Seine 213	Shamble
Sardel 259 Sardine 259 Sardinian 260	Sauce part 100	Konldia CCC	Scion	Seize 213	Shaft 217 Shag 217 Shag 217 Shaggy 217 Shah 220 Shake 220 Shake 220 Shallop 220 Shallow 220 Shamble 220 Shamble
Cardina 200	Saucer 160	Paula 343	Beroll	Seize 213 Seldom 214	Shanner 220
parums 259	naucerx 328	ocare 343	Scirrhus 352	geidom 214	gnammy 220
Sardom 260	Sauegbark 191	Scalene 343	Seission 352	Select 214	guampoo 221
Sardonic 260	Sauci 323	Scaliness 343	Seissors 352	Selectman 214	Shank 221
Sardins 259 Sardoin 260 Sardonic 260 Sardonyx 260	Saucerx 328 Saucgbark 191 Sauci 323 Saucily 192 Saucilyx 328 Sauciness 192 Sauciness 192	Sealbhard 324	Scion 352 Scirrhus 352 Scission 352 Scissors 352 Scierotic 352	Self. 214 Selfish. 214 Selframe 214	Shamble 220 Shamble 220 Shamble 220 Shample 220 Shample 220 Shamble 221 Shank 221 Shank 221 Shank 222 Shank 222 Shank 222 Shank 222 Shank 222 Shear 223 Shear 221 Shear 221 Shear 221 Shear 222 Shear 223 Shear 224 Shear 224 Shear 224 Shear 224 Shear 224 Shear 234 Sh
Sarce 260	Sancily x 328	Scallion 343	Scotf 352	Selfish 214	Shatter 221
Sargasso 260	Sancinoce 109	Scallon 919	Sould 259	Salframe 914	Shave 991
Sargasso 200	Panaissa 100	Scallop ata	Page 200	Columno 014	Shaver
Dail	Saucisse 152	Scarroped 343	Sconce 352	Settage 214	Sparei 221
Sarrel 200 Sargasso 260 Sargasso 260 Sarigue 260 Sarigue 260 Sark 260 Sark 260 Sark 260 Sarlac 260 Sarlac 260	Saucisse 192 Saucisson 191	Scalp 343	Scote 352	Selvage	gnawi 221
Sark 260	Saucy	Scalpel 343	Scope 352	Semblance 214	Shear 221
Sarking 260	Sauerk 323	Scalv 343	Scorbutic 352		Shear 221
Sarlac 260	Sauerkraut 191	Scamble 343	Score 352	Semitic 214	Shears221
Sarlyk 260	Sant 191	Scambler 343	Scoria 166	Semitone 214	Sheath 221
Sarlyk 260 Sarmatic 260	Saul 191 Saulie 191 Sault 169	Scambler 343 Scambler 343 Scampony 343 Scamper 343 Scamper 343 Scandal 343 Scandalize 343	Score 352 Scoria 166 Scow 264 Scowl 264 Scrabble 264	Semitle	Sheathe 221
Sarment 260 Sarmentacus 260	Pault 100	County 010	Beauty oca	Noneto 014	Shoon
Sarment 200	Sautt	ъсащр 343	Scow1 204	Senate	Sheen 221
Sarmentaeus 260	Saun 323	Scamper 343	Scrabble 264	Senator 214	Sheep 234
Sarmentose 260	Saun	Scandal 343		Senatorial 214	neepisn 234
Sarmentose 200 Sarn 260 Sarocolla 157 Sarony 260 Saros 260 Sarplar 260 Sarplar 264 Sarrasim 224 Sarsa 261	Saunders 169 Saundersblue 169	Scandalize 343	Scramble 264	Senile 214	Sheer 234
Sarocolla 157	Saundersblue 169	Scandalous 343 Scandalously 343	Scrap 264	Senilltv 214	Sheet 234
Sarony 260	Sount 399	Scandalougly 943	Scrape 264	Senior 214	Shelk 234
Saros 260	Country 100	Foundant 314	Scratch 264	Seniority 914	Shekel 934
Salus 200	Sautter 165	Scandell 044	Scrawl 264	Separation 014	Shokingh
Sarpiar 260	Sauntersbue 193 Saunter 169 Saunterer 169 Sauri 169 Sauri 169 Sauri 169 Sauria 169 Saurian 169 Saurian 169	Scandatously 343 Scansion 344 Scansorial 344 Scant 344 Scantily 344 Scantiness 344 Scantiness 344	Scrawi 264	Senior	gnekinan 221
Sarplier 264	Saur 169	Scansorial 344	Screak 264	Sense 215	Shelter
Sarrasim 264	Sauri 323	Scant 341	Scream	Sensibility 215	Sheive 234
Sarsa 264 Sarsaparilla 264	Sauria 169	Scantily 344	Screech 264	Sensible 215	Shedl
Sarsanarilla 264	Saurian 169	Scantiness . 344	Screen 264	Sensitive 215	Shepherd 234
Sarse 264	Sauroid 100	Saantling 941	Scribble 264	Sensorial 215	
Sarsenet 264	Sauroid 169 Saurophagus 169	Counting 944	Scribe 264	Sensible 215	Sheriff 228
Sarsenet 201	Saurophagus 169	Scantry 344	Serimp 264	Sensory 215	Sh
Sart 26+	Sausa 323	Scantness 344	Serimp 204	Sensory 213	GHe11 y 220
Sartorial 263	Sausa	Scauty 344	Serip 264	Sensory	new 228
Sartorious 263	Saurg 169	Scape 344	Script 264	Sententious 215	Shewn 228
Sarse 264 Sarsenet 264 Sart 264 Sart 264 Sartorial 263 Sartorious 263 Sartorious 263 Sary 263 Sary 263 Sash 263	Saurg 169 Sausswrite 169	Scantling 344 Scantly 344 Scantess 344 Scantey 344 Scape 344 Scape 344 Scapement 344 Scape 344	Screen 204	Sentient 215	Sheriff
Sash 263	Sauterelle 169	Scapula 344	Scrivener 264	Sentiment 215	Shield 228
Sash	Sautern 170 Sauvegarde 170	Scapement 344	Scrivener 264 Scrofula 264 Scroll 264	Sentient 215 Sentiment 215 Sentiment 215 Sentimental 215 Sentimel 215	Shield
Sasio 263	Sautem 110	Capallar 241	Scroll 264	Sentinel 215	Shilby 998
Sasiu 263 Sassafras 263 Sassanage 263	Sauvegarue 170	neapulary 344	Comple 004		Shilling
passairas 263	Sav	GCa1 340	Computer Con	Sentry 216 Separable 216	Shilly 200
Sassanage 263	5ava 323	Scarce 346	Serupie 264	Separatist 216	Shimmon 228
Sasse 263	Savab 323	Scarcely 346	остипну 264	Separatist 216 Septennial 216	Silimmer 228
Sassolin 263	Savable 170	Scarceness 346	Scrutoire 264	geptenmai 216	giuu 228
Sassoral	Savacan 170	Scarcity 346	Scud 264	Sentuagint 216	ningle 228
Sassoralla 263	Savage 170	Scare 346	Scuffle 264	Sepulcher 216	Shinney 228
Sassybark 263	Savab 323 Savab 323 Savable 170 Savacan 170 Savage 170 Savagel 323 Savagely 170 Cavagel 323	Scarcity 346 Scare 346 Scarecrow 346	Scull 264	Sepulcher 216 Sepulchral 216	Shinto 228
Sastra 263	Savagely 170	Scarf 346	Scullery	Sepulture 916	Shire 298
Dast14 203	Chinagery 110	Sparfod 216	Scullion 964	Sepulture 216 Sequacious 216	Shirk 998
Sassoralla 243 Sassybark 263 Sastra 263 Sat 263 Sat 263 Satan 263 Satanie 263 Sataniea 263 Sataniea 263 Satvisin 263 Satvisin 263	Savagen 323 Savageness 170	Consting	Scroll	Sequel 216	Shimmer 228
Satan 263	Savageness 170	nearning 346	Sculpture 204	Sequel	Shirting 228
Satanic 263	Savager 323 Savagery 170 Savagist 323 Savagism 170	Scartskin 346	Scum 264	gequence 216	Smrting 228
Satanical 263	Savagery 170	Scarifier 346	Scupper 265	Sequester 216	Shilve 228
Saturism 263	Savagist 393	Searify 346	Scurf 265	Sequestrate 216	Shiver 233
Satanist 263	Cavagien 170	Scarlatina 346	Scurrillous 265	Sequestrate 216 Sequestrate 216 Sequestration 216	Shoal 233
	Davis 201	Sportet 946	Scurry 265	Seraglio 218	Shoar 293
Satmiophamy 263	pavall 324	Course Cic	Scurry 265 Scutcheon 265	Seraph 218	Shoat 233
Satchel 259	5avana 170	gearp., 346	Cauttle	Seraphic 218	Shoek
Sate 259	Savanna 323	pearred 346	Scuttle 265 Scythe 265	Seraphile 218	3100ch 233
Satchel 259 Sate 259 Sateless 259	Savan. 324 Savana 170 Savanna 323 Savant 170	Searecrow 346	Scythe 265	Seraphi	Snoddy 233
Satelite 259 Satelitious 250 Satiate 327 Satlation 327	Save -170 Saveall 170 Saveloy 170 Saver 170 Saver 294	Seath 346	Sea 265 Seaboard 265 Scafarer 265 Seal 265	ocrapis 218	Snone 233
Satulitions oso	Savoali 170	Scathe 347	Seaboard 265	Serenade 218	Shook 233
Cutinto	Savalov 170	Scathful 347	Scafarer 265	Serene	Stroot 233
Catalle 327	Saveloy 170	Santhlage 917	Seal 965	Serenity 218	Shore 233
Satiation 327	paver 170	Pantinuss, 321	Soum	Serf 218	Shote
	Savero 324	Scatter 347	Seam 265 Seaman 265 Seamistress 265	Sergeant 218	Shout 920
Satin 327 Satin 327 Satinet 327 Satinflower 327 Sating 327 Satinspar 327 Satinspar 327 Satinwood 327	Savero 324 Sav1 324 Savin 170 Saving 170 Saving 170 Savingt 170 Savingt 324 Savingt 324	Scattered 347	Scaman 265	gergeant 218	Short 233
Satinet 397	Savin 170	Scattering 347	Scamstress 265	Serial 218	Shove 274
Satinflower 997	Saving 170	Seavenger 347	Sear 265 Search 265 Scason 265	perious 218	5nower 274
Sating 007	Savingly 170	Scene 847	Search 265	Derjeant 210	Showery 274
Cathanan	United and	Sceneny 947	Season 265	Sermon 219	Shred 274
Saunspar 327	oavidgo, 324	Parmia 947	Seat 265	Serons 219	Shrew 274
Satinwood 327	Savingne 324	Bechie	Sooworthy 965	Serons	Shrewd 974
	Savingness 170	Scene 347 Sceneny 347 Scenic 347 Scenical 347	Soluzoone cor	Serrate 219	Shriek
Satirle 327	Savingsbank 170		Septeeous 265	Dames 219	Shall 224
Satirical 397	Savole	Scenography 347	Secant 265	Serum 219 Servant 219	Obeles 274
Satirie 327 Satirieal 327 Satirist 328	Savlingsbank 170 Savole 170 Savo 324	Scenography 347 Scent 347	Sebaceous	Servant 219	SHFINE 274
- Decision 328					Shoat

					1
PAGE. Shrink 274 Shrinkage 274 Shrinker 274 Shrinkingly 274	PAGE. Sickliness 284 Sicklist 284 Sickly 284	PAGE.	PAGE.	PAGE.	PAGE.
Shrink 274	Siekliness 284	Significantly 301	Simplice 403 Simplician 212	Sixthrate 327	Sled 332 Sledding 332 Sleek 332 Sleekly 332 Sleekly 332
Shrinkage 274	Sicklist 284	Significate 301	Simplician 212	Sixtieth 327 Sizable 327	Sledding 332
Shrinker 274	Sickly 284 1	Signification 301	Slmplify 212	Sizable 327	Sleek 332
Shrinkingly 274	Sickness 285	Significative 301	Simplity 403	Sizar 327	Sleekly 332
Shrite 974	Sickroom 285	Significator 301	Simply 403	Sized 326	Sleeky 999
Shrite 274 Shrivately 274	Slele 285	Significavit 301	Simply 403 Simulate 404	Sizel	Slooknose
Chaine of	Siddow 285	Ciunifer 201	Dimenter 404	Claren	Sleeky
CHILITY C	Otd. 200	inguity.,	Simulty 404	01201	Sieckstone 332
Shrivei 274	Side 286	Signior 301	Sin 404	Sized 326 Sizel 326 Sizer 326 Siziness 326	Sieep 332
Shrivately	Slele 285 Siddow 285 Side 286 Sidearm 286 Sideboard 286 Sideboard 286	Signify 301 Signior 301 Signiorize 301	Simulty 404 Sin 404 Sinaic 404 Sinaite 404	Sizing 326	Steep 332
Shriving 274	Sideboard 286		Sinaitic 404	Sizy 326	Sleepful 332
Shroff 274	Sidebox 286	Signiory 801 Signmanual 301	Sinapie 404 Sinapine 404	Sizzle 326	Sieepliv 832
Shroffage 274	Sidecut 286	Signmanual 301	Sinapine 404	Slzzling 326	Sleepiness 332
Shroad 274	Sided 286	Signor 901	Sinanis 404	Skain 326	Sieeping 332
Shroud 974	Sideffy 286	Signmost 901	Sinaplem 404	Skald 826	Sleoplose
Shroud	Sided 286 Sidefly 286 Sideglance 286	Piles 901	Cinco 404	Skate 326	Clearless 332
Shamadlana 071	Sidehead 286	Signor	Sinapis	Siziness 326 Siziness 326 Sizing 326 Sizy 326 Sizzle 326 Sizzle 326 Sizzle 326 Sizzling 326 Skain 326 Skaid 326 Skate 326 Skate 326 Skayless 326 Ske 324	Sleepless
Shroudless 274	Sideliead 286 Sidehill 286	SIKET 301	Sindon 404	Skater 326	Sieepy 332
Shroudplate 275	Sidehill 286 Sidelever 286	Sikerness 301	Sine 404	Skayless 326	Sieet 932
Shroudy 275	Sidelever 286		Sinecure 404	Ske 324	Sieetch 332
Shrove 275	Sidelong, 286	Silca 220 Silcanite 220	Sinepite 404	Skean 326	Sleetiness 332
Shrovetide 275	Sideling 286	Silcanite 220	Sinew 404	Skeed 390	Sleetv 332
Shrove 275 Shrovetide 275 Shroving 275 Shrow 276	Sidelong 286 Sidelong 286 Sideling 286 Sideman 281 Sideposts 287 Sidep 287	Sile	Sinewed 290	Skean 324 Skean 326 Skeed 390 Skeel 326 Skeet 328 Skeg 326 Skegger 326 Skegger 326	Sleety 332 Sleevefilf 332 Sleevehand 332 Sleeveless 332 Sleid 332
Shrowd 276 Shrowd 276	Sidenipe 286	Silence 301	Sinewous 290	Skeet 326	Sleevehand 999
Shrowd 276	Sidenosts 287	Silene 301	Sinewy 200	Skeg . 326	Sleeveless 222
Shru. 276 Shrub	Sider 287	Silent 201	Slnful	Skegger 326	Slaid
Shrub 276	Sider 287 Sideral 287	Citantiant 901	Sing 290	Skein 326	Piolah 002
Shrub	Vidente 007	Silential y.v	Singe 290		Sieign 332
Shrubbiness 276	Siderate 287 Siderated 287	Silentry	Singe 290	Skeletal 326	Sieigning 332
Silitiophiess 276	Siderated 287	Silentness 302	Singer 290	Skeleton, 326	Sieignt 332
Shrubby 276	Sideration 237	Silent 301	Single 290		Sield
Shrubless 276	Siderograph 287	Silesion, 302	Singlin 290	Skelp 326 Skelp 326 Skep 326 Skeptic 326 Skeptical 326 Skeptical 326	Sleightily 334
	Slderography 287	Silex 302	Singlo 290	Sken	Sleightly 334
Shrug 276 Shrunken 276	Sideroman 287	Silex	Singly 290	Skep 896	Slender 324
Shrunken 276	SideromeL 287		Singsong 290	Skeptic 226	Slenderly
Shuck 279 Shudder 279	Sideros 997	Silicate 200	Singster 290	Skeptical	Slenderness 334
Shudder 970	Sideros 287 Siderscope 287	Sillouted 200	Singular 290	Skepticism 326	Slout Stant
Shade 279	Sidocad 201	Silica	Singular 290	Skaptialza 326	Siept 334
Shuff 279	Sidesad 281 Siddlesaddle 287	Silicate 302 Silicated 302 Silice 302 Silice 302 Siliceous 302	Sindon	Skepticism 326 Skepticize 326	Dieutii 334
Shuffle 979	omulesadule 287	Sinceous 302	Sinica1 290	экеггу 326	Slept
Shuff	Sidetable 281 Sidetaking 281	Silicie	Sinister 290	ркетсп 343	Siew 334
gnumeboard 278	Sidetaking281	Silicity 303	Sinister	Skerry 326 Sketch 343 Sketcher 329	Slew
Shufflecap 278	Sideview 295 Sidewalk 295 Sideways 295	Silicious 302	Sinistral 308	DACIULITY 329	Sley 334
Shuffler 278 Shuffling 278	Sidewalk, 295	Silicite 303	Sinistrous 309	Shetchy 329	Slibber 334
Shuffling 278	Sideways 295	Sillicited 303	Sink 309	Skew 329	Slice 394
Shug '278	51GeWHU 295	Silicle	Sinker 309	Skewarch 990	Slicer 994
Shug 278 Shumac 278	Sidowise 905	Silicon 303 Silination 139	Sink 309 Sinker 309 Slnkhole 309 Sinless 309	Skewbridge, 324	Slick 994
Shun 278	Siding 295	Silination 139	Sinless 200	Skewbridge 994	Slicking
Shun 278 Shunless 278 Shunti 277 Shut 277	Siding 295 Sidle 295 Siege 205 Sienite 295 Sienitic 295 Sienitic 295	Silicule		Skewer	Siewed
Shunti 277	Siege 295	Silioua 303	Sinter 911	Skewery 324 Skewery 324	Slid 999
Shut	Signite 295	Silique 303	Sintoe	Skidder 324	Slid
	Signific 295	Silk 303	Sinusto	Skiff	Shuden 333
Shutter 277	Sienna 205	Silkcotton 303	Cinumtion 010	Skiff 324 Skill	Silduer 333
Shutter 277 Shuttered 277	Sienna	Silken 304	Cinuaca	Okin 389	Silue 333
Shuttle 977	Clarra 007	Silkgrass 304	51Huose312	Skilled 389	Sidegroat 333
Shuttlebox 277	Signate 200		Sinter 311	Skimniness, 391	Slider 333
Shuttle 277 Shuttlebox 277 Shuttlerace 281	Slerra 205 Slesta 295 Sleur 295		Sip 312	Skill 389 Skilled 389 Skilled 389 Skimniness 991 Skimmy 991	Sliderest 333
Shuttlerace 281	Sieur ., 295	Silkman 304	Sipe 312	Skinch 389	Slidevalve 333
Shy 281 Shyly 280 Shyness 280	Sieve 295 Sift 295		Sinuous 312	Skinch 389 Skinflint 389	Silde
onyry 280	Sitt	Silkshag 304 Silkweed 304 Silkwill 304 Silkworm 204	Sipid 311	Skinful 990	Slight 439 Slighten 439
Shyness 280	Sifter 295	Slikweed 304	Sipper 311	Skink	Slighten 439
Si	Sig 296 Sigaultian 296	Slikwill 304	Sippex 311	Skinless	Silghter
Stalogue 282	Sigaultian 296	Slikworm 304	Sippling 311		Slightly 439
Siamese 282	Sigel	Silky 304 Sili 305 Silility 305 Sillock 305	Sir	Skip 391 Skipper 391 Skippingly 390 Skirl 390 Skirling 390 Skirmish 390	Silly
Sib 282	Siggillative 300	Siii 305	Sire 313	Skipper 391	Slim 440
Siberian 282	Slgh 296	Silliv	Siren 313	Skippingly 390	Slime 440
Siberite 282	Sighborn 296	Sillock 305	Sirene 313	Skirl	Silminese 440
Sibilance 282	Sigher	Sillon 305	Sirenical 919	Skirling 390	Slimov
Sibilant 282	Sigher 296 Sighfulness 300	Silly 305	Sireniza	Skirmish 390	Climy 440
Sibilate 283	Sighingly 206	Silly 305 Sillyhow 305	Siriasis 314	Skirmish. 390 Skirmisher 390	Simy 440
Sibilation 282	Sight 907	Silo	Sinitals	Skii iii siier 390	Simess 440
	Sighted	Gilt 995	Siritch 314	Skirret 390	Silme 440 Silme 440 Silminess 440 Silmoy 440 Silmy 440 Silness 440 Silnes 440 Silnge 440 Silnger 440
Sibilous. 283	Ciglifful	8014	Sirius 214	Skirt 390	Sunger 440
Slbu1. 283	Significant State of the State	Silty	Sirname 315		Sllnk 440
Sibulist 283	Cightless 800	500re, 180	Sirrah 315	Skittish 390 Skittishly 390	Slink
Sibulino 283	Sightless 300 Sight 296 Sight 297 Sighted 237 Sightful 300 Sightless 300	Simrian 161	Sirupy 315	Skittish 390 Skittishly 390	Sllpon 440
Sibilious 283 Sibul 283 Sibul 283 Sibul 283 Sibylist 283 Sibyliline 283 Sic 288 Sic		Silurian	Siritch 314 Sirius 214 Sirius 315 Sirname 315 Sirnah 315 Sirnipy 315 Sisalgrass 316	SKILLIES 390	Slippon.
Sic	Sightseeing 300	Silverfur. 270 Silverless 190	Sisery 316	Skive 390	Slipperiness 450
Sicamore 283	Sightseer 300 Sighgtshap 300	Silveriess 190	Siskin 316	Skiver 390	Slipperily 450
Nicoa 283	gigingtsnap 300	Suveriy 190	Siskinit 316		Slippery 450
Siccamore 283 Sicca 283 Siccate 283 Siccation 283 Siccative 283 Siccative 283	Sightsman 300	Silverly	Sisery 316 Siskin 316 Siskinit 316 Siskinit 316 Siss 316 Siss 316 Siss 316 Siss 316	SKY 330	Slippiness 450
Siccation 283	Sigia 300	Silvery, 288	Sissoo 316	Skyblue 330	Slippy 450
Siccative 283	1 Sigma 300	Sinia 288	Sist 316	Skycolor 330	Silpshod 449
	Sigmoid 300	Simagre 288	Sister 317		Slipshoe 419
Siccifie 283	Sigmoidal 300	Simar 288	Sisterly 918	Skyev	Slipslop
Sice 283	Sigmoid 300 Sigmoidal 300 Sigmoidally 300	Silvery	Sistine 300	Skyhleh 990	Slipshoe
Sich 285	1 Sigmolding 300	Simblat 291	Sistrum 318	Skylark 330	Slintheift 410
Sicilian 285	1 Sign 300	Slinia 291	Sit 999	Slavedriver 220	Sile 110
OICK 286	Sign	Similar 404	Site	Skylark. 330 Slavedriver 330 Slaveholder 330	Slither
Sickbed 285	Signalfire 300	Simile 291	Sited 995	Slaver 331	Sittler 999
Sickberth 285	Signal	Simiou 279	Sitfast 205	Slaverer 331 Slaverer 331 Slaveringly 331	Slive co
Sickboy 285		Simions 207	Sith 295	Slaveringly	Silve
Sickboy 285 Sickbrained 285	Signally 300	Simitar 272	Sitology	Slaveringly 331	1711 V C1 333
Sicken 285	Signally 300 Signalment 300	Simmer 272	Sitts 320	Slavorbla	Sloaken 333
Sicker 284 Sickeringly 284		Simnel	Sittor	Shaveship 331	Sloam 333
Sickeringly 984	Signator 201	Similorna	Sitting 820	Sharla	Sloat 933
Sickerly 984	Signator 301 Signatory 300	Simnel. 272 Similogue. 310 Simoniac 272	Situate 325	Slavenie 331	Slobber 333
Sickerly 284 Sickerness 284	Signature 201	Simonist 272	Sist 316	Slavery 331 Slavery 331 Slaveship 331 Slavetrade 331 Slavic 331 Slavic 331 Slavic 331 Slavic 331 Slavic 331	Slobberer 333
Sickish 204	Signature 301 Signaturist 301	Simony 272	Situation 327	Slavish	Sloberry 333
Sickish	Sign hoard 301	Simony	gituation 327	giavisniy 331	Slock 333
Sickisimess 284	Signboard 301 Signer 301 Signet 301 Signet 301 Signeted 301	Simonla 207	Situs 327	giavishness 331	Slogan 333
Sickle 984	Signet 201	Simper 000	Sivan 327	Slavism 331 Slavocracy 331	Sloke 333
Sickled 201	Simeted	Simper	Sixfold 327	giavocracy 331	Slo1 333
Sickle 284 Sickled 284 Sickleman 284	Signetring 301	Charles 207	Siver 327 Sixfold 327 Sixpence 327	Siavonian 331	Sloo 333
	Signifier 201	Shuple	Standard 327		Sloaken 333 Sloaken 333 Sloat 333 Sloat 333 Sloat 333 Sloberer 333 Sloberry 333 Sloberry 333 Slock 333 S
Sickless 984	Significance 301	Simpler 010	Graphing 327	Slay 331	Sloomy 333
Sicklewort. 984	Significancy 201	Simpler 212	Sixebooton 327	Stayer 332	Sloop 335
Sickless 284 Sicklewort 284 Sicklied 284	Signifier 301 Signifier 301 Significance 301 Significancy 301 Significant 301	Simpless	Sixpeniny 327 Sixscore 327 Sixscore 327 Sixshooter 327 Sixthiy 327	Slaw 331 Slayer 332 Sleazy 332 Sleaziness 332	Slope 335 Slope 335
	,	pacat	оленту 327	oteaziness 332	Sюре 335
			· · · · · · · · · · · · · · · · · · ·		

7.000					25-27-27-27-27-27-27-27-27-27-27-27-27-27-
PAGE.	PAGE	PAGE.	PAGE.	PAGE.	PAGE.
Slopeness 335	Smart 337	Snacket 478	Snowdeep 340	Sodium 480	
Slopewise 335	Smarten 336	Snaffle 478	Snowding 340	Sodomite 480	Solitude 466
Slaving 226	Smurtle 220		Francis Ct	Sodomitical 480	Solitudo
Sloping 335	Smartle 336	Snag 478	Snowdrift 340	Sogomitica1 480	Souther 490
Slopingly 335	Smartly 336	Snagged 478	Snowdrop 341	Sofa 480	Sollar 490
Stoppiness 335	Smartness 336	Snaggy 478	Snowtlake 341	Sofert 480	Solo 490
Manager 000	Committee of 500	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11.10751 III.NO	1101010	6.1.4
Stoppy 335	Smartweed 336	Snake 478	Snowneck 341	Soft	Solstice 490 Solstital 490
Slopy 335	Smash 336	Snakeroot 478 Snakeweed 478	Snowhood 341	Soffiet 480	Solstital 490
Slot 335 Slote 335	Smasher 338	Chalcomond 470	Snowgoose 341	Sofism 480	Soltier. 169 Solubility. 490
1400	amasiici aac	makeneed 410	anongoose arr	100 and 11 100	(5010161
51016	Smatch 338	Snakewcod 478	Snowless 341 Snowplow 341	Soft	Solubility 490
Stothfully 334	Smatter 338	Snakish 478	Snowplow 341	Soften 480	Soluble 490 Solubleness 490
Slothfulness 334	Manual	Caralan	Surve Price	11. 54 400	Paled loans
510tin (IIII) 55 554	Smatterer 388	Suaky 478	Snowshoe 341	Softener 480	Solubleness 490
Slothound : 334	Smatterer 338 Smattering 338	Snall 478	Snowstorm., 341	Softish 480	
Slotted 334	Smear 338	Snap478	Snowwhite 342	Softling 480	Solute 490
1300tc 41	5111C KL 000	Sual	310 W WILLIE 392	701thing 100	Doidte 430
Slottery 324	Smeardab 338	Snaplock 478	Snowy 342	Softiy	
Sloth 335	Smeary 328	Snapper 478	Snub 342	Softman 480	Solutive 490
Slathful 205	Property Comments	Characterist	Carrie and	Coffee	Color billion
Slothful	Smeath 338	Suappisu 4.8	Snubnose 342	Softner 479	Solvability 490
Slouch 334	Smectite 338	Snappish 478 Snappishly 478	Snubpost 312	Softness 479	Solvable 490
Stonelring 334	Smeir 475	Snappy 478	Snudge 342	Soggy 479	Solvableness 490
Planet out	Contract of the contract of th	onappy 410	muge	50000	COLVEDICES 450
Slough 334	Smell 475 Smeller 475	Snare	Snuff 342 Snuffbox 342	Soil	Solve 490 Solvency 490
Sloughy	Smeller 475	Sparl 478	Snuffbox 342	Soiliness 479	Solvency 490
Stevens	Varialling 175	Consider 170	Post in 100	Patition 470	Colorest 100
Sloven 442	Smelling 475	Snarler 478	Soaking 482	Soilless 479	Solvent 490
Slovenliness 449	Smelt 475	Snary 478	Soaky 482	Soilure 479	Solver 490
Sloventy 449	Smelter 475	Snatch 478	Soaky 482 Soal 482	Soily	Somative 490
Slow	Smelter 475 Smeltery 475	Charles III	0.000	270	13 mar 4 mar 1
Slow 449 Slowback 449	Smenery 475	Snatcher 478 Snatchingly 478	Soap 482 Soapsuds 482	Source 479	Somatical 490
Slow Dack 449	Smerlin 475	Snatchingly 478	Soapsuds 482	Solonra 479	Somatics 490
Slowly 449	Smew 475	South 479	Soomwort 499	Sojourner 479	Somatist 430 Somatology 490
Slownood	34.5	Snath 478	Soapwort 482	10 of other 1 479	Domatist 430
	Suncker 475	Snead 478	Soapy 482	Solourning 479	Somatology 490
Slub	Smicker 475 Smicket 475	Sneak 481	Soar 482	Sol 479	
Slubber 410	Smilneine 450	Sneaker 481	E 01.	Palene 200	Somber
51000001	Smilacine 476		Sob 482	Solace 479	Somber 490
Sludge 439	Smilax 476	Sneaking 481	Sober	Solace 479 Solacement 479	Somberly 490
Sludger 439	Smile 476	Sneakingness 481	Soberize	Solacious 479	Somberness 490
Charles 490	difficultation of the state of	isticakingitoss 401	G bering 102	301acious	Southerness 430
Sludgy 439	Smileless 476	Sneap 481	Soberty 482	Solanacions 479	Sombrero 490
510e 439	Similes 476	Sneck 481	Soberness	Solander 479	Sombrous 490
Sluggard 439 Sluggard 475	Smiles 476 Smilingly 476	Sneckband:481	Soboles 482	Solanine 479	Sombronsly 490
Sluggardy 475	Smilingness 476	Sned 481	Soboliferous 482	Solano 479	Somedeal 490
Simerical	Smirch 476	Change 401	Cabalana 400	Columbia Tib	Controd Car
Singgish 475	Smilett 470	Sneer 481	Sobriety 482	Solarium 457	Somewhat 490
Sluggishly 475	Smirk 476	Sneerer '481	Sobriquet 482	Solarization 457	Sommiel 490
Sluggy 475	Smirky 476	Sneerful 481	Sec 482	Solarize 408	Somnarabula 490
Slugs 475	Smite 476	Sneeringly 431	Socage 492	Solary 409	Scinnamoulator, 67
Storing	Smiter 476	Carrens 403		Solary 408 Soldanel 408	
Stuice	Statist 476	Sneezeweed - 481	Socager 482	Soldanel 408	Soumainbulle 67
Sinicegate 475	Smith 476	Sneezeweed - 481	Socatran 480	Soldanrie 408	Somnambulism 67
SIUICV 475	Smither 476	Sneezewood 481	Socatrine 480	Soldier 408	Sonambulist 67
Slum 475	Smithery 476	Sneezewort 481	Sociability 482	Poldinaring 4/99	Common 0
Slum	character and the second	Sileeze n 01 6 481	Sociability 402	Soldier 408 Soldiering 408	Somnial 31
510000er 460	Smithing 476	Snell 481	Socia 479	Soldierly 408	Somnial 31
Slumberer 475	Smithsonian 476	Snep 481	Sociable 482	Soldiery 458	Somnative 453
Slumbery 475	Smithy 476	Snicker 481	Sociableness 482	Sole 458	Somniculous 453
Slumberless 475	Dimine 470	Character	Control No.	0016 100	Commentous 403
Transferred Tra	Smitt 476	Snickup 481	Sociably 482	Solecism 458	Somnific 209
Slump 475	Smitten 476	Sniff 481	Social 482	Solecist 458	Somniferous 489
Slumpy 475	Smittle 476	Snift	Socialism 482	Solecistic 458 Solecistically 458	Song 380
Slung 475 Slungshot 475	Smoole 455		Socialist 482	Coloridation Dec	Contract of the contract of th
110Hg	Smock 477 Smockable 477	Snig 481		Solecistically 458	Songful 380
Slungshot 475	Smockable 477	Snigger 481	Socialistic 482	Solecize 458	Songish 380
Shink 475	Smoke 477	Suiggle 481	Socialize 482	Solely 459	Songless 380
Slur 475	Smokearch 477	Unio 101	Contally	6-1-1	Ovne 10 22
SHILL		Snip 481	Socially 482	Solemn 459	Songster 380
Shur	Smokeball 477	Snipe	Socialness 479 Socialogic 479	Solemnness 459 Solemnness 401	Songster 380 Songstress 380
Shish 475	Smokebox 477	Spinghill 481	Socialogia 470	Solomnity 450	Suniforona 424
Sharler are	Propleminals ***	traine field	gocialogic 479	Solemnity 459	Soniterous 434
Sinshy 475	Smokejack 477	Snipefish 481	Socialogy 479	Solemaly 401 Solemalze 459	Station 327
Slutch 475	Smokeless 477	Snipper 481	Societ 479	Solemuiže 459	Sy 285
Shitchy 475	Smoker 477	Snipsnap 481	Society 479	Solemnizer 401	Syn
Mary Commencer and the second	Smoker 477 Smokesail 477	Omi/Suap 401	Società 419	Sofemmeet 401	Ээц 280
8ly475	5000KeSan 477	Snithy 482	Socinian 479	Solen 407	
Slyboots 337	Smolt 477	Snivel	Socialism 479	Solenacean 407	***
Siyly 337	Smooth 477	Sniveler 482	Sock 479	Solenceous 407	T
Shange 922	Francish on 477	Ominolet	30CK 475	Solenceous 401	-
Slyness 337	Smoother 477	Snively : 482	Sockdolager 479	Soleness 407	Thimble 102
Smack 327	Smooszando 477	Snob	Sockless 479	Solenite 407	Thimble 102
Smacking 307	Smoothing 477	Snobbery 499	Socky 479	Soleplate 424	Tiger 102
Smaketree 477	Smootbly 477	Charle by the state of the stat	D1-	Soft plate 424	Tigress 102
Simal Creek 411	Simonting 477	Shomish 482	Socle 479	Solere 424	Timeton 100
Smakily 477	Smoothness 477	Snobbish 482 Snobbishly 482	50cman479	Solert 424	Tippler 102
Smakiness 477	Smother 477	Snobbishness, 482	Seemanry 479	Soleship 424	
Smakny 477	Smothiry 477	Snobbism 482	Socome 400	Colfe	v
Smalder 477	Smangh 477	Panel	Socome 480	Solfa	•
-mailuit 411	Smouch 477	Snod 339	Socratic 480	Sonanara 100	
Smaldry 477	Smu 478	Snood 339	Socratically 480	Soltatara 100	Vagrancy 289
Smallage 337	Smudge 477	Snook 339	Socratism 480	Solicitant 432	Versatile 440
Smallish 337	Smug	Snooze 339	Sooretlet -00		Vertebra 440
Franklinger : 1007	thereases and	339	Socratist 480	Solicitation 466	Vertebra 440
Smallness 337	Smuggle 477	Snore 339	Sod 480	Solicitor 466	Vestment 440
Smallpox 337	Sumply 477	Snorer 339	Soda 480	Solicitous 466	Vigorous 100
Smalls	Smogness 477	Snort 339	Sodalite 480	Solicitously 466	Villager 100
Smally 337	Smuly	Charles	2.3.116	10011010usiy., 400	Villager 100
Daniel 19	Smuly 477	Sporter 339	Sodality 480	Solicitress 466	V meyard 61
Smalt 337	Sundeh 478	Snout 339	Sodawater 480	Solicitude 466	Vividiv 440
Smaltine 337	Smy. ofat 478	Snonty 340	Sodden 480	Solidarity 466 l	Volunt 70
Smaltine	Suarat . 478	Snow 340	Soddy 480	Solidate 466	Volant 70 Volition 70
Smaragdite 337	Snack 478 Snack 478	Snow 340 Snowball 340	Status 100	Solidate 466 Solidism 466	Valley
13111111111111111111111111111111111111	Sunct 419	· 13110 W Oo 11 340	Soder	SOUGISIN 466	Volley 70
					**

Index to Numbers.

'AT. No.	Page.	CAT. No	PAGE.	CAT. No.	Page.	CAT. No.	PAGE.	CAT. No.	PAGE.
No. 14. 15. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16	PAGE.	CAT. No 213 214 214 230 240 241 241 241 244 244 245 245 255 256 256 256 256 256 256 256 256 25	PAGE. 155 157	490 431 432 433 434 435 438 436 438 439 440 441 444 446 446 446 446 456 466 466 467 477 477 477 477 477 477 47	E.	607 608 609 6101 611 611 611 611 611 611 611 611 61	289 289 289 289 289 289 289 289 289 289	821 822 823 824 825 825 825 825 825 825 825 825 825 825	144 144 144 144 144 144 144 144 144 144

	C N-	D			I	Prop	1 _	ī	ı	1
204	CAT. No.	PAGE.	CAT. No.	PAGE						
1909	924	101	1086	110	1236	468	1422	345. 345	1575 1576	348
Column	926	63	1088	252	1238	468	1424	354	1578	348
1902 1908	930	62	1090	110	12391/6	246	1427	354	1580	348
100	932	63	1092	252	1242	468	1429	354 354	1582	348
106	934	160	1094	252	1244	468	1431	345	1584	355
988 76 1106 110 1249 488 1456 445 1506 355 904 1 100 1	936	10	1102	110	1246	468	1433	345	1586	355
944	938	76	1104	110	1248	468	1435	345	1588	355
944	940	76	1106	110	1250	468	1437	354	1590	355
944	942	77	1108	375	1252	468	1440	354 954	1592	355
944	944	77	1110	110	1254	468	1442	354	1594	355 355
944	946	61	1115	158	1273 1275	351	1444	345	1596	355
966	950	93 64	1118	159	1277	351	1447	345 345	1598 1600	355 488
100	960	185	1120	159	1279	351	1449	349	1602	488
1002	1000	10	1122	111	1316	351 355	1451	349 349	1604	488
1004	1002	109	1124	iii	1318	355 355	1453	349	1606	488
1006	1004	109	1126	111	1320	79	1455	349	1608	488
1008 1009 1130 246 1224 67 1445 349 1615 488 1010 100 1133 1111 1325 70 1446 349 1617 488 1010 100 1133 1111 1325 70 1446 349 1617 488 1011 100 1133 1111 1325 70 1446 349 1617 488 1011 100 1135 1111 1325 70 1446 349 1624 488 1014 100 1135 1111 1325 70 1446 349 1625 488 1014 100 1135 1111 1325 70 1446 349 1625 488 1014 100 1137 246 1334 1314 1476 349 1626 488 1014 100 1138 246 1334 1314 1476 349 1626 488 1014 100 1139 246 1335 151 1469 349 1629 488 1018 109 1139 246 1335 151 1469 349 1629 488 1018 109 1139 246 1335 151 1469 349 1629 488 1018 109 1139 246 1335 151 1469 349 1629 488 1018 100 1144 1111 1337 1338 134 1470 349 1629 488 1018 100 1144 1111 1337 1339 233 1472 349 1629 488 1024 100 1143 1111 1339 233 1472 349 1624 488 1024 100 1144 1111 1340 233 1472 349 1634 488 1024 100 1145 1111 1340 333 1472 349 1634 488 1024 100 1145 1111 1346 353 1477 349 1634 488 1024 100 1145 1111 1346 353 1477 349 1634 488 1024 100 1145 1111 1346 353 1477 349 1646 488 1024 100 1150 1111 1346 353 1477 349 1646 488 1026 100 1154 1111 1346 353 1477 349 1646 488 1026 100 1157 438 1358 353 1477 349 1646 488 1026 100 1157 438 1358 353 1477 349 1646 488 1026 100 1157 438 1358 353 1477 349 1646 488 1026 100 1157 438 1358 353 1477 349 1646 488 1026 100 1157 438 1358 353 1477 359 1646 488 1026 100 1157 438 1358 353 1477 359 1646 488 1026 100 1157 438 1358 353 1477 359 1646 488 1026 100 1157 438 1358 353 1477 359 1646 488 102	1006	109	1128	246	li 1322	1 151	1457	349	1610	488
1010 100 1132 111 1295 79 1461 340 1612 448 1012 100 1135 111 1329 79 1462 349 1623 448 1012 100 1135 111 1329 79 1464 349 1623 448 1014 100 1135 111 1329 79 1464 349 1623 448 1014 100 1135 111 1330 79 1465 349 1625 448 1016 100 1137 246 1333 151 1466 340 1626 448 1016 100 1137 246 1333 151 1467 340 1628 448 1016 100 1138 246 1338 151 1467 340 1628 448 1016 100 1138 246 1338 151 1467 340 1628 448 1018 100 1138 246 1338 151 1467 340 1628 448 1018 100 1141 111 1335 348 1629 448 1019 100 1142 111 1357 104 1470 349 1631 448 1021 100 1142 111 1338 353 1471 340 1632 448 1022 100 1143 111 1338 353 1471 340 1633 448 1023 100 1144 111 1344 353 1473 340 1633 448 1026 100 1144 111 1344 353 1475 340 1634 448 1026 100 1153 111 1344 353 1476 340 1637 448 1026 100 1153 111 1344 353 1476 340 1637 448 1028 100 1153 111 1344 353 1476 340 1637 448 1028 100 1153 111 1344 353 1476 340 1637 448 1028 100 1156 111 1344 353 1476 340 1637 448 1028 100 1156 111 1346 353 1478 350 1641 448 1028 100 1156 111 1346 353 1478 350 1641 448 1028 100 1156 111 1346 353 1478 350 1641 448 1028 100 1156 111 1346 353 1478 350 1641 448 1028 100 1156 111 1346 353 1478 350 1641 448 1028 100 1156 111 1344 353 1478 350 1641 448 1028 100 1156 111 1344 353 1476 340 1644 448 448 1028 100 1156 111 1344 353 1476 340 1644 448 448 1028 100 1156 111 1344 353 1476 340 1644 448 448 1028 100 1156 111 1344 353 1476 340 1644 448 448 1028 100 1156 111	1008	109	1130	246	1324	67	1459	349	1615	488
1015 100	1010	109	1132	111	1326	79	1461	349	1619	488
1015 100	7012	109	1134	111	1328	79	1463	349	1624	488
1016	1014	109	1136	111	1330	79 151	1465	349	1626	488
1019	1016	109	1138	246	1334	151	1467	349	1628	488
1002	1018	109	1139	246	1337	151 104	1469 1470	349 349		488 488
1023	1021	109	1143	111	1338 1339	353 253	1471 1472	349 349	1632 1633	488 488
1025 109	1023 1024	109 109	1144 1145	111 111	1340 1342	353 353	1473 1474	349 349	1634 1635	488 488
1007 1009 1152 1111 134-14 38-35 147-8 38-39 148-14 48-88 149-	1026	109	1146 1151	111	1344	353	1476	349	1639	488
1000 1000 1155 1111 1355 353 1480 330 1488 4502 1001 1001 1155 1111 1355 353 1481 330 1484 4502 1002 1009 1157 488 3158 333 1482 330 1661 485 1003 100 1150 488 3159 333 1482 330 1661 485 1004 100 1161 488 3159 333 1482 330 1661 485 1004 100 1161 488 3159 333 1482 330 1662 485 1005 100 1163 333 3150 333 1485 330 1663 485 1007 100 1166 333 3150 354 1487 330 1656 485 1008 100 1167 333 3151 354 1487 330 1656 485 1009 100 1168 333 3151 354 1487 330 1656 485 1009 100 1168 333 3157 354 1489 350 1657 1011 110 110 469 3154 334 334 349 1012 110 1171 469 3154 334 334 349 1014 110 1173 469 3154 354 1492 350 1661 485 1014 110 1173 469 3157 354 1498 350 1661 485 1014 110 1176 469 3157 354 1498 350 1661 485 1014 110 1177 469 3157 354 1498 350 1661 485 1014 110 1176 577 3388 354 1497 350 1662 485 1014 110 1176 577 3888 354 1497 350 1662 485 1014 110 1176 577 3888 354 1497 350 1662 485 1014 110 1176 577 3888 354 1497 350 1662 485 1014 110 1176 577 3888 354 1497 350 1662 485 1015 110 1176 577 3888 354 1497 350 1662 485 1016 110 1183 242 1399 354 1490 350 1663 485 1016 110 1183 242 1399 354 1490 350 1663 485 1016 110 1183 242 1399 354 1500 350 1663 485 1016 110 1184 243 3400 354 1500 350 1663 485 1016 110 1189 242 1490 356 1508 350 1675 485 1016 110 1189 242 1490 356 1508 350 1675 485 1016 110 1189 242 1490 356 1508 350 1675 485 1016 110 1189 242 1490 356 1508 350 1675 485	1027 1028	109	1153	111	1346	353	1478	350	1643	488
1002 1009	1030	109	1155	111	1355	353	1480	350	1648	459
1094 109	1032	109	1156 1157	438	1358	353	1482	350	1651	485
1097 109	1034	109	1161	438	1360	353	1484	350	1653	485 485
1008	1036	109	1165	393	1369	354	1486	350 350	1655	485 485
1041	1038	109	1167	393	1371 1373	354 354	1488 1489	350	1657	485
1043	1041	110	1169	469	1374	354 354	1490 1491	350 350	1659 1660	485 485
1045 110	1043 1044	110	1171	469	1384	354	1493	250	1662	485
1018	1045 1046	110 110	1174	469	1387	354	1495	350	1664	485
1000	1047 1048	110	1177	157	1389	354	1497	350	1666	485
1002	1050	110	1179	241	1397	354	1499	350	1668	485
1002	1052	110	1183	242	1399	354	1501	350 350	1670 1671	485 485
1003	1061	110	1185	250	1402	354 354	1503 1504	350 350	1672 1673	485 485
1006	1063	110	1188	250	1404	345 345	1505 1506	350 350	1674 1675	485 485
1007	1065	110	1190 1193	250 242	1406 1407	345 345	1508	351 351	1677	485
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1067	110	1194 1195	242 242	1409	345	1510	351 351	1679	485
1071	1069	110	1196 1197	242	1411	354	1512	351	1681	485
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1071	110 110	1198 1199	545	1414	354	1514	351	1683	485
1082 110 1232 468 1448 345 1518 351 1687 485 1082 110 1233 468 1449 345 1573 348 1688 485	1073 1080	110 251	1229 1230	468	1416	354	1516	351 351 351	1685	485 485 495
1083 110 1233 405 4245 222 1245 406	1082	110 110	1232	468	1418	345	1518	351	1687	485
1084 110 1234 468 1420 345 1574 348 1689 485	1083	110 110	1233 1234			345	1574	348	1689	485

1800	CAT. No.	PAGE.
1719	2222 2233 2239 2230 2230 2235 2235 2235 2235 2235 2235	PAGE. 25 25 13 26 26 27 28 28 27 29 20 240 240 240 240 240 240 240 240 240

CAT. No.	PAGE.	CAT No.	Page.	CAT No.	Page.	CAT NO.	PAGE.	CAT. No.	PAGE.
.2375	281	2598	244	2735 2736 2737	223	2850	163	3034	467
2376 2377	281 281	2599 2600	244 244	2736	223 224	2851	163	3035	407
2378	281	2600	244	2738	224	2852 2853	183 434	3036 3037	467
2379	281	2602	244	2739	224	2854 2854	434	3038	467 467
9350	289	2603	244	2740	224	2855	434	3040	248
2381	289	2604	244	2740 2741	224	2856	434	2041	218
2382	289	2605	244	2742	994	2857	434	3042	248 471
2383	289	2606	244	2743	226	2858	435	3043	248
2384	289	2607	244	2744	226	2859	435	3044	248
2385	289	2608	1 244 1	2743	226	2800	435	3045	241
2886	281	2609	241	2746	226	2861	435	3046	241
2388	406	2610	241	2747	226	2862	435	3047	243
2392	400 400	2611 2612	241 241	2748			435	3047½ 3050	245
2393 2394	61	2612	241	2749 2750	226 226	2864 02865	4:5	3050	250 250
2005	Gi I	2614	254	2751	226	02866	435 435	3052	489
2396	436	2615	254	2752	226	2867	101	3053	489
2397	436	2616	254	2753	226	2868	94	3054	489
2398	436	2617	254	2754 2755	226	2869	383	3055	489
2300	436	2618	254	2755	1 0.43	2870	383	3056 3057	489
2400	436	2619	254	2756	226	2871	383	3057	489
2401	43G	.2620	254	2757	226	2872	383	3058	489
2402	486 486	2621 2622	254	2758	226	2873	383	3059 3060	489
2403 2404	436	2022	254 954	2739 2760	226 227	2874	383 383	3061	489 489
2404	400	2624	254	2761	997	2875 2876	383	3063	480
2406	75	2625	255	2762	997	2877	383	3065	489
2407	70 79 79 79	2626	255	2763	227 227	2878	383	3067	245
2408	79	2627	255 255	1 27.4	227 227	2879	383	30671/2	246
2400	80	H 2628	255	2765	227	2880	383	H 3068	245
2515	386	2629	257	2766	227	2881	383	30681/2	246
2516	386	2630	257	2767	257	2882	883	11 3070	245
2517 2518	386 386	2634 2636	257 255	2768	227 227	2883 2884	383	3071 3073	245 245
2518 2520	386	2637	255	2769 2770 2771	227	2885	383	3074	245
2521	387 387	2638	255 255	2771	227	2886	168	3075	375
2523	382	2639	255	2772	227	2887	168	3076	245
2524	379	2640	255	2773	227	2888	168	3077	245
2525	379	2641	275	2774 2775	227	2891	460	3078	875
2526	379	2642 2671	255	2775	2.27	2913	396	1 3079	246
2527	400	2671	451	II 2776	227	1 2014	396	3080	246
2528	400	2672	451	2777	224	2915	436	3081	251
2538	377 379	2673	386	2778	224	2916 2917	396	3082 3083	252
2542 2543	376	2674 2675	386	2779 B 2779 ·	223 223	2918	396	3084	252
2544	376	2676	385	2780	9-23	2019	396	3085	252 252
2545	376 376	2678	251	2781	223	2920	396	3092	489
2546	376	2680	384	2782	237	2921	94	3093	489
2547	377 377	2681	384	2783	237	2923	437	3104	467
2543	377	2682	384	2784	237	25/24	+37	3105	467
2549	377 406	2683	384	2785	237	2925	4:17	3106	467
2550	406	2688 2689	384 384	2786 2787	237 237	2026 2027	158 188	3107 3108	467 467
2551 2552	406	2690	384	2792	237	2031	4:37	3109	467
2553 2553	406	26901.2	489	9793	225	2932	437	3110	467
2554	393	2691	384	2738 2794	226	2003	437	3111	467
2555	393	2694	106	2795	450	2934	437	3112	467 467
2556	393	2695	489	2796	450	2935	487	3113	467
2557	393	2696	489	2797	225	2944	396	3114	467
2558	393	2697	489	2798 2799	225	2945	396	3115	467
2559	393	2698	489	2799	237 226	2946 2947	396	3116 3117	467
2560	303	2700	207	2800	226	3600	452	3118	467
2561 2562	393	2702	207	2803	239	30001/2	466	3119	467 467
2563	893	2703	1 507	2804	239	3001	466	3120	467
2564	393	2704	207 207	2506	239	3002	466	3122	467
2566	432	2705	207	2807	1 239	3003	466	3123	467
2567	432	2706	107	2808	239	3004	466	3124	467
2568	432	2707	207 207	2809 2820	230 365	3005 3006	466 466	3125 3126	467
2569 2570	432 432	2708 2709	207	1 2521	365	3007	466	3127	467 467
2571	432	9710	207	2821 2822	3065	3008	466	3128	467
2572	432	2710 2711	1 207	2820	365	31.835	466	3129	467
2573	432	2712	207	2824	365	ii :#≀13	466	3130	467
2574 2575	432	2713	207	2825	365	3011	493	3131	468
2575	426	2714	207 207 207	2826	365 365	3012	466	3132	468
2576	80	H 9745	207	2827	365	3013	466	3133	469
2577*	80	2716 2717	207	2828 2820	365 365	3914 3015	460	3134 3135	468
2578	80	2717	207 207	2830	365	3018	460,	3136	468 468
2579 2580	80 80	2748 2710	207	28.0	335	1 3017	466	3137	468
2580 2581	86	9790	207	2832	365	3018	466	3138	468
2582	80	9791	207 207	2833	365	3019	466	3139	468
117,93	80	2722	207	2834	365	3020	466	3140	468
2584	80	2723	207	2835	383	3021 3022	466	3141	468
2585	80	2724	207 207	2836	383	3022	466	1 3442	468
2586	80	9795	207	2837	383	3023	466	3143	468
2587	80	2726	207	2838 2830	383	3024 3025	466 466	3144 3145	468
2588	80	2727	207		383	3025		3145	468
2589	80	2728	207	2810	383	3026	467 467	3147	468
2500	80 80	2729 272934	208	2844 2843	383 179	3028	407	3148	468 468
2591	80	1 27207g	208	2845	100	3029	468	3149	468
2502 2504	243	2730 2731	208	2846	10	31240	1 467	3150	468
>:/*	243	2732	208	2847	10	3031	1 467	3158	470
9595			1 5000	2848	190	3032	467	3159	470
2505 2506 2507	243 214	2733 2734	223 223	2819	190	26133	467	3160	470

State	CAT NO. PAGE. CAT NO PAGE. CAT. NO PAGE. CAT NO PAGE.	CAT No.	PAGE.
1610	3161 470 3373 240 3608 83 3319 444	3929	356
141-1- 150 1	3162 470 3374 240 3609 83 3820 444	3930	356
10 10 10 10 10 10 10 10	3103 470 3375 240 3610 432 3821 444	3931	356
Section Sect	3165 470 1 3377 249 3619 106 3522 444 1	3956	489
100		3957	489
100	3167 470 3379 240 3623 407 3825 444		
170	3168 4.0 3380 240 3630 103 3832 397 1	3959	489
\$170	3170 470 2382 240 3632 103 3934 415	3961	499
\$170	3171 470 3383 240 3633 103 3835 415	3962	489
\$170	3172 470 38831 89 3634 103-106 33:66 444 1	3563	
\$170	3174 470 3394 451 3636 103 3838 415		
1812	3175 470 3415 438 3637 103 3839 415	3966	489
1812	3176 471 3416 438 3638 407 3840 415	3967	489
1812	3178 471 3418 448 3640 407 3842 415	3969	489
1812	3179 471 3419 438 3641 467 3843 415	2971	353
1812	3180 471 3420 438 3642 407 3844 416 3191 471 3421 129 4649 407 3844 416	3972	
3184 471 3451 415 3466 407 38845 446 3076 333 3185 471 3451 415 3464 414 3653 382 3851 416 3077 353 3188 471 3454 414 3653 382 3851 416 3079 353 3188 471 3454 414 3653 382 3851 416 3097 353 3189 471 3464 414 3653 382 3851 416 3097 353 3189 471 3464 414 3653 382 3851 416 3090 353 3189 471 3465 414 3653 382 3855 416 3090 353 3190 471 3462 445 3653 366 382 3855 416 3090 353 3110 471 3462 445 3653 366 382 3855 416 3090 3984 344 3110 471 3462 445 366 367 382 3855 416 3090 3984 344 3110 471 3464 446 367 367 348 367 367 344 3110 471 3846 440 367 367 340 367 382 3857 416 3090 3984 344 3110 471 3846 440 367 367 340 385 360 385 360 385 360 386 386 386 386 386 386 386 386 386 386		3974	353
1888 471 3446 414 3961 382 3852 416 3980 353 344 3181 344 346 417 3468 418 3468 348 344 348 341 34	3183 471 3450 415 3645 407 3847 416	3975	353
1888 471 3446 414 3961 382 3852 416 3980 353 344 3181 344 346 417 3468 418 3468 348 344 348 341 34	3184 471 3450 415 3646 407 3848 416 3185 471 3450 415 8617 407 9010 416	3976	353
1888 471 3446 414 3961 382 3852 416 3980 353 344 3181 344 346 417 3468 418 3468 348 344 348 341 34	3186 471 3453 415 3651 104 3850 416	3978	353
1819		3979	353
1906		3980	353
3191	3190 471 3457 104 3667 382 3854 416	3982	344
3110	3191 471 3458 425 3668 382 3855 416	3983	344
3100 471 3466 426 3077 248 850 446 3987 344 3100 471 3466 426 3077 248 850 446 3987 344 3100 471 3466 427 347 347 347 347 347 347 347 347 347 34	3193 471 3462 425 3673 272 3857 416		344
3216 401 3478 411 3685 267 3887 416 4500 104 3278 3270 401 3478 411 3686 266 3886 400 360 374 6001 98 3207 401 3479 411 3787 375 3870 374 6038 262 3211 470 3480 411 3787 375 375 3870 374 6038 262 3211 470 3481 411 3688 375 3870 374 6038 262 3212 470 3481 411 3688 375 3870 374 6038 262 3214 470 3481 411 3688 375 3870 488 6640 261 361 361 361 361 361 361 361 361 361 3	3194 471 3464 426 3674 273 3858 416	3986	344
3216 401 3478 411 3685 267 3887 416 4500 104 3278 3270 401 3478 411 3686 266 3886 400 360 374 6001 98 3207 401 3479 411 3787 375 3870 374 6038 262 3211 470 3480 411 3787 375 375 3870 374 6038 262 3211 470 3481 411 3688 375 3870 374 6038 262 3212 470 3481 411 3688 375 3870 374 6038 262 3214 470 3481 411 3688 375 3870 488 6640 261 361 361 361 361 361 361 361 361 361 3	3195 471 3466 426 3677 243 3859 446 3196 471 3463 427 3677 242	3987	344
3216 401 3478 411 3685 267 3887 416 4500 104 378 378 411 3685 267 3887 416 4500 104 378 378 411 3687 265 3888 402 5000 88 3207 401 3479 411 3787 375 375 3870 374 5000 88 3207 401 3470 3480 411 3787 375 375 3870 374 5000 88 262 3211 470 3481 411 3688 375 3870 374 5000 88 262 3212 470 3481 411 3688 375 3870 488 6540 261 3214 3214 470 3481 411 3688 375 3887 488 6540 261 3214 3216 470 3481 411 3688 375 3887 488 6540 261 3216 3216 470 3485 411 3688 375 3882 488 6540 261 3216 3216 470 3485 411 3600 266 3882 483 6542 261 3216 3216 470 3485 411 3600 266 3882 483 6542 261 3217 470 3488 411 3600 266 3884 483 6543 261 3218 470 3488 411 3600 266 3884 483 6543 261 3218 3219 470 3488 311 3600 266 3884 483 6543 261 3218 3219 470 3488 310 411 3600 266 3884 483 6543 261 3212 3212 470 3400 288 3604 360 360 360 3886 483 6558 262 321 3222 470 3400 288 3604 375 3888 483 6558 262 321 3222 470 3400 288 3604 375 3888 483 6558 262 321 3222 470 3400 288 3604 375 3888 483 6558 262 321 3222 3470 3400 288 3604 375 3888 483 6558 262 322 3222 3470 3402 288 3604 375 3888 483 6558 262 322 3222 340 340 3400 288 3604 375 3888 483 6558 362 322 322 322 340 340 3400 388 388 3604 375 3888 483 6558 362 322 322 322 322 322 322 322 322 322	3197 106 3470 428 3679 256 3861 416	3997	
3216 401 3477 411 3685 267 3887 416 5000 98 3207 401 3478 411 3686 266 3886 406 5000 98 3207 401 3478 411 3687 265 3868 406 5000 98 3201 470 3480 411 3787 375 370 374 6038 262 3213 470 3481 411 3688 375 3870 374 6038 262 3214 470 3481 411 3688 375 3870 374 6038 262 3214 470 3481 411 3688 49 266 3870 488 6640 261 3214 470 3481 411 3688 49 266 3870 488 6640 261 3216 470 3484 411 3688 9 266 3870 488 6640 261 3216 470 3485 411 3688 9 266 3870 488 6640 261 3216 470 3485 411 3680 266 3881 483 6642 261 3217 470 3485 411 3600 266 3881 483 6642 261 3218 470 3488 411 3600 56 3884 483 6642 261 3219 470 3488 341 41 3600 56 3884 483 6643 261 3219 470 3486 411 3600 56 3884 483 6643 261 3219 470 3480 288 3604 266 3888 483 6643 261 3221 470 3480 288 3604 366 3888 483 6654 261 3222 470 3400 288 3604 376 3888 483 6658 262 3222 470 3401 288 3604 376 3888 483 6658 262 3223 470 3401 288 3604 376 3888 483 6658 262 3224 470 3401 388 388 481 3665 388 483 6658 262 3224 470 3401 388 388 483 6660 388 483 6658 262 3224 470 3401 388 388 3604 376 388 483 6658 262 3225 470 3401 388 388 3604 376 388 388 483 6658 262 3226 470 3401 388 388 3604 376 388 483 6658 262 3227 470 3401 388 388 3604 377 388 3604 388 665 388 483 6658 362 3228 470 3401 388 388 3604 376 388 388 483 6658 262 3227 470 3401 388 388 3604 377 3808 366 388 488 6657 382 382 382 382 382 382 382 382 382 382	3198 106 3472 444 3680 270 3862 416		
3216 401 3477 411 3685 267 3887 416 5000 98 3207 401 3478 411 3686 266 3886 406 5000 98 3207 401 3478 411 3687 265 3868 406 5000 98 3201 470 3480 411 3787 375 370 374 6038 262 3213 470 3481 411 3688 375 3870 374 6038 262 3214 470 3481 411 3688 375 3870 374 6038 262 3214 470 3481 411 3688 49 266 3870 488 6640 261 3214 470 3481 411 3688 49 266 3870 488 6640 261 3216 470 3484 411 3688 9 266 3870 488 6640 261 3216 470 3485 411 3688 9 266 3870 488 6640 261 3216 470 3485 411 3680 266 3881 483 6642 261 3217 470 3485 411 3600 266 3881 483 6642 261 3218 470 3488 411 3600 56 3884 483 6642 261 3219 470 3488 341 41 3600 56 3884 483 6643 261 3219 470 3486 411 3600 56 3884 483 6643 261 3219 470 3480 288 3604 266 3888 483 6643 261 3221 470 3480 288 3604 366 3888 483 6654 261 3222 470 3400 288 3604 376 3888 483 6658 262 3222 470 3401 288 3604 376 3888 483 6658 262 3223 470 3401 288 3604 376 3888 483 6658 262 3224 470 3401 388 388 481 3665 388 483 6658 262 3224 470 3401 388 388 483 6660 388 483 6658 262 3224 470 3401 388 388 3604 376 388 483 6658 262 3225 470 3401 388 388 3604 376 388 388 483 6658 262 3226 470 3401 388 388 3604 376 388 483 6658 262 3227 470 3401 388 388 3604 377 388 3604 388 665 388 483 6658 362 3228 470 3401 388 388 3604 376 388 388 483 6658 262 3227 470 3401 388 388 3604 377 3808 366 388 488 6657 382 382 382 382 382 382 382 382 382 382	3201 89 3473 444 3681 270 3863 446 3202 89 3474 444 3681 270 3863 446		87
3216 401 3477 411 3685 267 3887 416 5000 98 3207 401 3478 411 3686 266 3886 406 5000 98 3207 401 3478 411 3687 265 3868 406 5000 98 3201 470 3480 411 3787 375 370 374 6038 262 3213 470 3481 411 3688 375 3870 374 6038 262 3214 470 3481 411 3688 375 3870 374 6038 262 3214 470 3481 411 3688 49 266 3870 488 6640 261 3214 470 3481 411 3688 49 266 3870 488 6640 261 3216 470 3484 411 3688 9 266 3870 488 6640 261 3216 470 3485 411 3688 9 266 3870 488 6640 261 3216 470 3485 411 3680 266 3881 483 6642 261 3217 470 3485 411 3600 266 3881 483 6642 261 3218 470 3488 411 3600 56 3884 483 6642 261 3219 470 3488 341 41 3600 56 3884 483 6643 261 3219 470 3486 411 3600 56 3884 483 6643 261 3219 470 3480 288 3604 266 3888 483 6643 261 3221 470 3480 288 3604 366 3888 483 6654 261 3222 470 3400 288 3604 376 3888 483 6658 262 3222 470 3401 288 3604 376 3888 483 6658 262 3223 470 3401 288 3604 376 3888 483 6658 262 3224 470 3401 388 388 481 3665 388 483 6658 262 3224 470 3401 388 388 483 6660 388 483 6658 262 3224 470 3401 388 388 3604 376 388 483 6658 262 3225 470 3401 388 388 3604 376 388 388 483 6658 262 3226 470 3401 388 388 3604 376 388 483 6658 262 3227 470 3401 388 388 3604 377 388 3604 388 665 388 483 6658 362 3228 470 3401 388 388 3604 376 388 388 483 6658 262 3227 470 3401 388 388 3604 377 3808 366 388 488 6657 382 382 382 382 382 382 382 382 382 382	3203 89 3475 411 3683 256 3805 416	4974	201
3:06 401 3478 411 3686 266 3808 402 6000 98 3:077 400 3479 411 3687 266 3800 374 6001 98 3:212 470 3481 411 3687 266 3800 374 6001 98 3:213 470 3481 411 3688 266 3872 414 6638 262 3:214 470 3481 411 3688 266 3872 414 6638 262 3:215 470 3483 411 3688 266 3872 414 6638 262 3:216 470 3484 411 3689 266 3880 483 6541 261 3:217 470 3484 411 3689 266 3880 483 6541 261 3:217 470 3484 411 3689 266 3880 483 6541 261 3:218 470 3483 411 3600 266 3880 483 6541 261 3:218 470 3483 411 3600 266 3880 483 6542 261 3:218 470 3488 411 3600 266 3888 483 6543 261 3:219 470 3488 411 3600 266 3886 483 6555 262 3:220 470 3489 288 3600 376 3888 483 6555 262 3:221 470 3403 288 3600 376 3888 483 6557 262 3:223 470 3403 288 3600 376 3888 483 6557 262 3:224 470 3403 288 3600 376 3888 483 6557 262 3:225 470 3401 288 3600 366 376 3888 483 6557 262 3:224 470 3403 288 3600 366 3880 483 6557 262 3:225 470 3401 288 3600 366 3880 483 6557 262 3:225 470 3401 388 288 3600 376 368 389 483 6557 262 3:226 470 3403 388 388 3600 376 360 389 483 6557 262 3:226 470 3404 388 387 377 3005 478 380 483 6550 262 3:227 471 3408 387 377 3005 483 6560 262 3:228 470 3404 387 377 3005 477 3005 483 6560 262 3:229 471 3408 387 3706 377 3005 483 6560 262 3:220 471 3408 387 3706 377 3005 483 6560 262 3:220 471 3408 387 3706 377 3005 483 6660 261 3:224 471 3504 406 3733 407 3004 483 6560 261 3:225 471 3500 406 3732 407 300 484 6668 261 3:226 471 3501 406 3733 407 300 484 6668 261 3:227 471 3500 406 3732 407 300 484 6668 261 3:228 471 3501 406 3733 407 300 484 6668 261 3:229 471 3501 406 3733 407 300 484 6668 261 3:230 471 3501 406 3733 407 300 484 6668 261 3:230 471 3501 406 3733 407 300 484 6668 261 3:230 471 3501 406 3733 407 300 484 6668 261 3:240 471 3501 406 3733 407 300 484 6668 261 3:240 471 3501 400 3733 400 3733 400 484 6668 261 3:240 471 3501 400 3733 400 3733 400 484 6668 261 3:240 471 3501 4		4975	201
32917 401 3479 411 3687 288 3800 374 6001 98 32911 470 3480 411 3587 375 370 374 6038 222 3213 470 3480 411 3688 375 3870 418 6539 222 3214 470 3481 411 3688 375 3870 418 6539 222 3214 470 3481 411 3688 375 3870 418 6540 261 3214 470 3481 411 3688 375 3870 418 6540 261 3216 470 3485 411 3688 375 3870 418 6542 261 3216 470 3485 411 3688 368 368 483 6542 261 3216 470 3485 411 3600 266 3882 483 6542 261 3219 470 3485 411 3600 266 3886 483 6542 261 3219 470 3485 411 3600 266 3886 483 6542 261 3219 470 3485 411 3600 266 3886 483 6542 261 3210 470 3480 288 3604 266 3886 483 6542 261 3211 470 3400 288 3604 375 3880 483 6542 261 3221 470 3400 288 3604 375 3880 483 6558 262 3222 470 3401 288 3604 375 3880 483 6558 262 3222 470 3401 288 3604 375 3880 483 6558 262 3222 470 3401 387 388 3604 375 3880 483 6558 262 3222 470 3401 387 388 3604 375 3880 483 6558 262 3222 470 3401 387 387 3600 375 3880 483 6558 262 3223 470 3401 387 387 3600 366 389 483 6558 262 3224 470 3401 387 387 3600 466 387 380 483 6558 262 3225 470 3466 387 377 3600 266 389 483 6558 262 3226 470 3466 387 377 3600 266 389 483 6560 262 3227 470 3460 387 377 3600 266 389 483 6550 262 3228 470 3466 377 3600 266 389 483 6560 262 3227 470 3460 387 377 3600 266 389 483 6560 262 3227 470 3460 387 377 3600 266 389 483 6560 262 3227 470 3460 387 377 3600 266 389 483 6560 262 3228 470 3466 377 3600 266 389 483 6560 262 3227 470 3460 387 377 3600 266 389 483 6560 262 3227 470 3460 387 370 370 370 380 480 6560 262 3227 470 3460 387 370 370 370 380 483 6560 262 3227 470 3460 387 370 370 370 380 483 6560 262 3227 470 3460 387 370 370 370 380 480 6560 262 3227 470 3460 387 370 370 370 380 380 483 6560 262 3227 322 323 324 324 324 324 324 324 324 324	3206 401 3478 411 3686 266 3668 400	5559 6000	98
3212 470 3481 411 3088 5 266 3870 4418 6630 221 3214 470 3483 411 3088 5 266 3870 4418 6630 221 3214 470 3484 411 3088 5 266 3870 4418 6631 221 3215 470 3484 411 3088 5 266 3870 4418 6631 221 221 3215 470 3484 411 3088 5 266 3880 483 6541 221 221 3217 470 3485 411 3088 5 266 3880 483 6541 221 221 3217 470 3485 411 3080 5 266 3880 483 6541 321 3218 470 3488 411 3080 5 266 3882 483 6543 221 3218 470 3488 411 309 5 266 3886 483 6543 221 3210 470 3488 411 309 288 309 266 3886 483 6555 222 322 470 3483 228 309 266 3886 483 6555 222 322 322 470 3402 228 309 266 3886 483 6557 322 322 322 470 3402 228 309 266 3886 483 6557 322 322 322 470 3402 228 309 266 3886 483 6557 322 322 322 322 322 322 322 322 322 32	3207 401 3479 411 3687 266 8660 677	6001	98
3213 470 3483 411 3689 266 3880 483 6540 261 321 470 3483 411 3689 266 3880 483 6541 261 321 470 3484 411 3689 266 3880 483 6542 261 321 470 3484 411 3689 266 3880 483 6542 261 321 470 3484 411 3689 266 3880 483 6542 261 321 321 470 3485 411 362 261 321 321 470 3485 411 362 261 321 321 470 3485 411 362 261 321 321 321 321 321 321 321 321 321 32	3211 470 6400 411 3/5/% 3/5 38/0 374	6538	262
3214 470 3483 411 3688 266 3880 483 6542 261 321 470 3485 411 3688 266 374 3882 483 6542 261 321 470 3485 411 3609 4 374 3888 483 6542 261 321 3218 470 3485 411 3609 4 374 3888 483 6542 261 321 3218 470 3485 411 3609 4 374 3888 483 6542 261 321 3210 470 3488 411 3609 4 374 3888 483 6542 261 321 3210 470 3488 211 3609 4 3888 3601 266 3886 483 6555 262 362 362 362 362 362 362 362 362 362	3213 470 3482 411 36884 266 3879 499	6540	261
3218 4-10 3488 4411 3630 366 3882 483 6543 261 3218 3219 470 3488 411 3629 266 3886 483 6543 261 322 3220 470 3488 411 3629 266 3886 483 6543 261 322 3220 470 3488 411 3629 266 3886 483 6555 262 322 3220 470 3402 288 3629 266 3886 483 6555 262 322 3222 470 3402 288 3629 266 3886 483 6556 262 322 322 470 3402 288 3624 266 3886 483 6557 362 322 322 470 3402 288 3624 2 266 3886 483 6557 362 322 322 470 3402 388 3624 2 266 3886 483 6557 362 322 3225 470 3402 388 3624 2 266 3886 483 6557 362 322 322 322 322 322 322 322 322 322	3214 470 3483 411 3689 266 3880 483	6541	261
32119 470 3488 411 3609 266 3884 478 6555 262 3886 483 6555 262 382 383 470 3488 411 3609 266 3886 483 6555 262 382 383 470 3488 383 483 483 6556 483 6558 4	3216 470 3485 411 3681/2 374 3881 483 423 3216 470 3485 411 3690 966 3660 3660	6542	261
3219 470 3488 411 3092 296 3886 483 6555 262 3820 470 3488 483 6555 262 3820 470 3488 288 3009 266 3886 483 6556 262 3820 470 3490 288 3009 266 3886 483 6557 262 3822 470 3402 288 3009 266 3886 483 6557 262 3822 470 3402 288 3009 266 3888 483 6557 262 3822 470 3402 288 3009 266 3888 483 6557 262 3822 38225 470 3402 3823 3825 470 3402 288 3009 288 3009 266 3888 483 6557 262 3822 38225 470 3404 377 3005 4 365 3820 483 6550 262 3822 38225 470 3404 377 3005 4 365 3820 483 6550 262 3822 38225 470 3405 387 3807 266 3889 483 6550 262 3822 38226 470 3405 387 3807 266 3889 483 6550 262 3822 38226 470 3405 387 3705 377 3805 483 6550 262 3822 3822 471 3408 387 3807 266 3889 483 6550 262 3822 3822 471 3488 387 3705 370 270 3805 483 6560 262 3822 3822 3822 3822 3822 3822 3822		6543	261
\$220 470 3480 288 3693 5 376, 3887 483 6558 292 \$221 470 3400 288 3693 5 376, 3887 483 6558 292 \$222 470 3401 288 3693 5 376, 3887 483 6558 292 \$223 470 3401 288 3694 376 3888 483 6558 292 \$224 470 3402 288 3694 376 3888 483 6558 292 \$224 470 3402 288 3694 376 3888 483 6558 292 \$225 470 3404 377 3605 292 \$226 470 3405 377 3605 292 \$226 470 3405 377 3605 292 \$226 470 3405 377 3605 292 \$227 470 3405 377 3605 296 3893 483 6550 292 \$228 470 3405 387 3608 266 3894 483 6560 292 \$228 3228 470 3406 387 3608 266 3893 483 6561 262 \$230 471 3408 387 370 577 3805 296 3894 483 6562 292 \$230 471 360 387 370 577 380 488 6562 292 \$230 471 360 387 370 577 380 488 6562 292 \$230 471 360 387 370 406 372 88 360 483 6566 291 \$230 471 3510 466 3728 89 360 483 6566 291 \$230 471 3510 466 3728 89 360 483 6567 291 \$230 471 3510 466 3738 407 3804 483 6567 291 \$230 471 3510 466 3738 407 3804 483 6567 291 \$230 471 3510 466 3738 387 380 483 6567 291 \$230 471 3510 466 3738 387 380 483 6567 291 \$230 471 3510 466 3738 387 380 483 6567 291 \$230 471 3510 466 3738 387 380 483 6567 291 \$230 471 3510 466 3738 387 380 483 6567 291 \$230 471 3510 466 3738 387 380 484 6568 291 \$230 471 3510 466 3738 387 380 484 6568 291 \$230 471 3510 466 3738 387 380 484 6568 291 \$230 471 3510 466 3738 387 380 484 6568 291 \$230 471 3511 401 378 378 390 484 6568 291 \$230 471 3511 401 378 378 370 380 484 6568 291 \$230 471 3511 401 378 378 370 380 484 6570 291 \$230 471 3511 406 378 378 374 3806 484 6570 291 \$230 471 3511 401 378 378 380 484 6570 291 \$230 471 3511 401 378 381 381 484 6570 291 \$230 471 3511 401 378 381 381 491 \$230 471 3511 401 378 381 381 491 \$230 471 3511 401 378 381 381 491 \$230 471 3511 401 378 381 381 491 \$230 471 3511 401 378 381 381 491 \$230 471 3511 401 378 381 381 491 \$230 484 471 3511 401 378 381 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$230 484 671 381 491 \$231 484 671 491 \$231 484 671 491 \$231	3218 470 3487 411 3691 266 3884 483	6544	261
3222 470 3401 288 3693 5 375 3887 483: 6556 292 3224 470 3401 288 3604 265 3885 483 6557 262 3224 470 3402 388 3604 265 3885 483 6558 292 3225 470 3403 387 387 3605 266 389 483 6558 262 3227 470 3404 387 387 3605 266 389 483 6560 262 3227 470 3405 387 3605 266 389 483 6560 262 3227 470 3405 387 3605 266 389 483 6560 262 3227 470 3405 387 3605 266 389 483 6560 262 3227 470 3405 387 3605 266 389 483 6560 262 3227 470 3405 387 3605 266 389 483 6560 262 3227 470 3405 387 3605 266 389 483 6560 262 3229 471 3403 387 3705 277 3805 483 6560 262 3229 471 3500 387 3705 277 3805 483 6563 262 3230 471 3500 387 3705 277 3805 483 6563 261 3222 471 3500 387 3705 370 410 388 483 6563 261 3224 471 3500 387 3719 410 388 483 6563 261 3224 471 3500 387 3719 410 388 483 6563 261 3234 471 3500 387 3719 410 388 483 6560 261 3234 471 3500 466 3723 407 3800 483 6567 261 3236 471 3510 406 3733 407 3800 483 6567 261 3237 471 3510 406 3733 407 3800 483 6567 261 3238 471 3510 406 3733 407 3800 483 6567 261 3239 471 3510 406 3733 407 3804 484 6589 261 3239 471 3510 406 3733 407 3804 484 6589 261 3239 471 3510 406 3733 407 3804 484 6589 261 3239 471 3510 406 3733 407 3804 484 6589 261 3239 471 3510 406 3733 407 3804 484 6589 261 3239 471 3510 406 3733 407 3804 484 6589 261 3239 471 3511 406 3758 379 380 484 6587 261 3239 471 3511 406 3758 379 380 484 6589 261 3239 471 3511 406 3758 379 380 484 6587 261 3239 471 3511 406 3758 379 380 484 6587 261 3239 471 3511 406 3758 380 380 484 6587 261 3239 471 3511 406 3758 380 380 484 6587 261 3240 471 3512 406 3758 380 380 484 6587 261 3240 471 3513 407 380 480 480 667 4	8220 470 3489 288 3699 266 2000	6556 6556	262
3223 470 3403 288 8 865 5 366 3888 483 6558 262 322 3224 470 3403 288 8 8655 5 366 3888 483 6558 262 322 3226 470 3405 377 3605 280 483 6559 262 3226 470 3405 377 3605 296 3892 483 6559 262 3226 470 3406 377 3605 266 3893 483 6550 262 322 3227 470 3406 387 3608 266 3893 483 6560 262 322 3227 470 3406 387 3608 266 3893 483 6560 262 322 3229 471 3407 387 3608 266 3893 483 6561 262 322 322 322 322 322 322 322 322 322	3221 470 3490 288 36931/3 375. 3887 483	65561	262
3225 470 3484 377 3005 5 376 3890 483 6550 922 3226 470 3485 377 3005 5 376 3891 483 6500 922 3227 470 3485 377 3005 6 3882 483 6500 922 3228 470 3486 387 3008 266 3882 483 6500 922 3228 470 3486 387 3008 266 3882 483 6500 922 3229 471 3488 387 3706 270 3885 488 6501 922 3230 471 3489 387 3706 377 3886 488 6502 922 3230 471 3500 387 3705 377 3887 488 6502 922 3231 471 3500 387 3705 377 3887 488 6502 921 3232 471 3508 406 3739 419 3886 489 6562 921 3232 471 3508 406 3739 419 3886 489 6566 921 3234 471 3508 406 3739 419 389 889 889 666 888 921 3235 471 3508 406 3739 419 389 889 889 666 92 921 3236 471 3510 406 3739 419 389 889 889 889 666 92 921 3238 471 3510 406 3739 489 666 92 921 3238 471 3510 406 3739 489 889 889 889 889 889 889 889 889 88	3222 470 3491 238 3694 266 1 3888 489	6557	262
3226 470 3496 377 3809 3807 986 3834 483 6560 262 322 3228 470 3496 387 3807 986 3881 483 6560 262 322 3228 470 3496 387 387 3807 986 3881 483 6560 262 322 3229 471 3498 387 3700 270 3895 483 6562 262 322 3231 471 3400 387 3706 377 3807 483 6562 262 322 3231 471 3400 387 3706 377 3807 483 6562 262 323 323 471 3500 387 3706 377 3807 483 6562 262 323 323 471 3500 387 3706 377 3807 483 6562 262 323 323 471 3500 387 3706 377 3807 483 6562 262 323 323 471 3500 406 3732 407 380 388 380 483 6566 261 323 324 471 3500 406 3732 407 380 380 483 6567 262 321 3224 471 3510 406 3732 407 3802 483 6567 262 321 3227 471 3510 406 3732 407 3802 484 6568 261 3223 407 3802 483 6567 262 321 3224 471 3511 406 3732 407 3802 484 6568 261 3224 471 3511 406 3732 407 3802 484 6568 261 3224 471 3511 406 3733 407 3802 484 6568 261 3224 471 3511 406 3733 407 3802 484 6568 261 3224 471 3511 406 3733 407 3802 484 6568 261 3224 471 3511 406 3733 407 3802 484 6568 261 3224 471 3511 406 3733 407 3802 484 6568 261 3224 471 3511 406 3733 407 3802 484 6568 261 3224 471 3511 406 3733 407 3802 484 6568 261 3224 471 3511 406 3733 407 3802 484 6568 261 3224 471 3511 406 3733 407 3803 484 6569 261 3224 471 3511 401 3788 374 3806 484 6570 421 321 324 407 324 407 3802 484 6569 261 3224 471 3511 401 3788 377 3806 484 6570 421 321 321 321 321 321 321 321 321 321 3	3224 470 3493 238 8695 266 3890 483	655816	262
\$229 471 3408 357 3700 270 3805 483 6562 262 \$230 471 3408 357 3700 270 3805 483 6562 262 \$230 471 3409 357 3700 270 3805 483 6562 262 \$231 471 3500 387 3705 377 3807 483 6562 262 \$232 471 3500 387 3705 377 3807 483 6563 261 \$232 471 3500 466 3733 89 3800 483 6566 261 \$2334 471 3508 466 3733 89 3800 483 6566 261 \$2334 471 3500 406 3732 407 3802 483 6567 261 \$236 471 3510 406 3732 407 3802 483 6567 261 \$236 471 3510 406 3732 407 3802 484 658 261 \$235 471 3510 406 3732 407 3802 484 658 261 \$235 471 3510 406 3732 407 3802 484 658 261 \$235 471 3510 406 3732 407 3802 484 658 261 \$235 471 3510 406 3732 407 3802 484 658 261 \$235 471 3510 406 3732 407 3802 484 658 261 \$235 471 3511 400 3780 3780 378 380 484 658 261 \$235 471 3511 400 3780 3780 377 3808 484 6568 261 \$235 471 3511 400 3780 3780 377 3808 484 6568 261 \$240 471 3513 401 3782 374 3806 484 6570 261 \$240 471 3514 401 3782 374 3806 484 6570 261 \$241 471 3516 401 3788 387 390 484 6571 261 \$242 471 3516 401 3788 387 390 484 6571 261 \$243 471 3516 401 3788 387 3909 88 6572 261 \$244 471 3516 401 3788 387 3909 88 6572 261 \$245 471 3516 401 3788 387 3909 88 6572 261 \$245 471 3516 401 3788 387 3909 88 6572 261 \$245 471 3516 401 3788 387 3909 88 6572 261 \$245 471 3516 401 3788 387 3909 88 6572 261 \$245 471 3516 401 3788 387 3909 88 6572 261 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 401 3789 384 3010 484 6571 262 \$245 471 3516 477 3500 401 3789 384 3010 484 6571 262 \$245 471 3516 477 3500 401 3789 388 301 484 484 6571 262 \$245 471 3516 477 3500 401 3789 388 301 484 484 6571 262 \$245 471 3516 477 3500 401 3789 388 301 484 484 6571 262 \$245 471 3516 477 3500	3225 470 3494 377 369514 375 3891 483	6559	262
\$229 471 3408 337 3700 270 3896 483 6561 202 \$230 471 3408 337 3700 270 3896 483 6562 202 \$230 471 3408 337 3700 270 3896 483 6562 202 \$230 471 3409 387 3700 377 3896 483 6562 202 \$240 471 3500 387 3700 377 3896 483 6562 202 \$240 471 3500 387 3700 377 3898 483 6563 201 \$241 471 3508 466 3739 89 3800 483 6567 201 \$2354 471 3500 406 3732 407 3802 484 6567 201 \$236 471 3510 406 3732 407 3802 484 6568 201 \$236 471 3510 406 3732 407 3802 484 6568 201 \$236 471 3510 406 3732 407 3802 484 6568 201 \$236 471 3510 406 3732 407 3802 484 6568 201 \$236 471 3510 406 3732 407 3802 484 6568 201 \$2328 471 3511 406 3733 407 3803 484 6568 201 \$2328 471 3511 406 3733 407 3803 484 6568 201 \$2328 471 3511 406 3738 371 371 3808 484 6568 201 \$2328 471 3511 406 3738 371 371 3808 484 6569 201 \$2328 471 3511 406 3738 371 371 3808 484 6569 201 \$2328 471 3511 401 3787 371 3808 484 6569 201 \$2340 471 3514 401 3788 377 3806 484 6570 201 \$2341 471 3516 401 3788 387 397 3908 484 6571 201 \$2341 471 3516 401 3788 387 397 3908 484 6571 201 \$2341 471 3516 401 3788 387 390 884 6672 201 \$2342 471 3516 401 3788 387 390 884 6672 201 \$2343 471 3516 401 3788 387 390 884 6672 201 \$2344 471 3516 401 3788 387 390 884 6672 201 \$2344 471 3516 401 3788 387 390 884 6672 201 \$2344 471 3516 401 3788 387 390 884 6672 201 \$2344 471 3516 401 3788 387 390 884 6672 201 \$2348 471 3517 401 3789 384 3010 484 6671 202 \$2348 471 3518 401 3789 384 3010 484 6671 202 \$2348 471 3518 401 3789 384 3010 484 6671 202 \$2348 471 3518 401 3789 384 3010 484 6671 202 \$2348 471 3518 401 3789 388 301 488 6672 201 \$2348 471 3524 407 3800 388 301 484 6671 202 \$2348 471 3524 401 3789 388 301 488 6672 201 \$2348 471 3524 401 3789 388 301 488 6672 201 \$2348 471 3524 401 3789 388 301 488 6671 202 \$2348 471 3524 401 3789 388 301 488 6671 202 \$2348 471 3524 401 3789 388 301 488 6671 202 \$2348 471 3524 401 3538 401 3789 388 301 488 6671 202 \$2348 471 3524 401 3524 401 3789 388 301 488 6671 202 \$2348 471 3524 401 3524 401 3789 388 301 488 6671 202 \$2348 471 3524 407 3000 400 400 400 400 400 400 400	3227 470 3496 387 3697 2966 3893 483	6560 65601/	262
3:231 471 3500 387 3719 419 3848 483 6565 261 372 3897 4483 6565 261 373 3897 471 3501 3897 4893 6566 261 372 3897 4893 6567 261 372 3897 3898 3899 3899 3899 3899 3899 3899	3228 479 3497 387 3698 266 3894 483	6561	262
3:231 471 3500 387 3719 419 3848 483 6565 261 372 3897 4483 6565 261 373 3897 471 3501 3897 4893 6566 261 372 3897 4893 6567 261 372 3897 3898 3899 3899 3899 3899 3899 3899	3230 471 3498 387 3700 270 3895 483 320 471 3499 387 3705 277 3496 100	6562	
3529 471 3501 486 3729 89 3896 483 6566 201	3231 471 3500 387 3706 377 3897 489	6563	262
3234 471 3508 406 3731 407 3901 483 6567 261 3225 471 3510 406 3731 407 3901 483 6567 261 3225 471 3510 406 3732 407 3901 483 6567 261 3225 471 3510 406 3732 407 3902 484 6568 261 3228 471 3511 406 3732 407 3902 484 6568 261 3228 471 3512 406 3732 407 3902 484 6568 261 3228 471 3513 401 3780 3780 3780 474 3905 484 6570 261 324 471 3513 401 3781 374 3905 484 6570 261 324 471 3513 401 3781 374 3905 484 6570 261 324 471 3513 401 3781 378 377 3906 484 6570 261 324 471 3513 401 3781 378 377 3906 484 6570 261 324 471 3513 401 3783 377 3906 484 6571 261 324 471 3513 401 3783 377 3906 484 6571 261 324 471 3513 401 3789 384 3907 484 6572 261 324 471 3513 401 3789 384 3907 484 6572 261 324 471 3518 401 3789 384 3907 484 6572 261 324 471 3518 401 3789 384 3907 484 6572 261 324 471 3518 401 3789 384 3907 484 6572 261 324 471 3518 401 3789 384 3907 484 6572 261 324 471 3518 401 3789 384 3907 484 6572 261 324 471 3518 401 3789 384 3907 484 6572 261 324 471 3518 401 3789 384 3907 484 6572 261 324 471 3520 401 3789 384 3907 484 6576 262 324 324 471 3520 401 3790 384 3907 484 6576 262 324 471 3520 401 3790 384 3907 484 6576 262 324 324 471 3520 401 3790 384 3907 484 6576 262 324 324 471 3520 401 3790 384 3907 484 6576 262 324 324 471 3520 401 3790 384 3907 484 6576 262 324 324 471 3520 401 3790 384 3907 484 6576 262 324 324 471 3520 401 3790 384 3917 484 6576 262 324 324 471 3520 401 3790 384 3917 484 6576 262 324 324 471 3520 401 3790 384 3917 484 6576 262 324 324 471 3520 477 3796 383 3917 484 6576 262 324 324 411 3520 477 3796 383 3917 484 6577 262 324 3250 411 3520 477 3796 383 3917 484 6577 262 324 3250 441 3520 477 3796 383 3917 484 6577 262 324 3250 441 3520 477 3796 383 3917 484 6577 262 324 3250 441 3520 477 3796 383 3917 484 6577 262 324 3250 441 3520 477 3796 383 3917 484 6577 262 324 3250 441 3520 447 35	3232 471 3501 387 3719 419 3808 483	6565	261
22.256 471 3510 406 3731 407 39.01 483 6567 ½ 261 3236 471 3510 406 3732 407 39.02 484 6568 261 3236 471 3511 406 3732 407 39.02 484 6568 261 3236 471 3511 406 3733 407 39.03 484 6569 261 3236 471 3511 406 3733 407 39.03 484 6569 261 3236 471 3511 406 3780 3780 374 39.04 484 6569 261 3240 471 3514 401 3782 374 39.05 484 6571 261 3240 471 3514 401 3782 374 39.05 484 6571 261 321 3241 471 3515 401 3783 374 39.05 484 6571 261 321 3241 471 3515 401 3783 374 39.05 484 6571 261 321 3241 471 3516 401 3788 397 39.06 484 6571 261 321 321 321 321 321 321 321 321 321 32	3234 471 3508 406 3790 89 2000	6566 6567	261
12217 471 3511 4406 3780 477 3802 4484 6568 261 3288 471 3512 4406 3780 477 3803 484 6568 261 3288 471 3513 4406 3780 477 3805 484 6568 261 3288 471 3513 4401 3780 3780 378 365 484 6570 261 3241 471 3513 401 3781 378 377 3806 484 6570 261 3241 471 3513 401 3782 374 3806 484 6570 261 3241 471 3513 401 3783 377 3806 484 6570 261 3241 471 3513 401 3783 377 3806 484 6571 261 3241 471 3513 401 3783 377 3806 484 6571 261 3241 471 3518 401 3787 377 3807 3807 484 6572 261 3244 471 3518 401 3789 384 3800 484 6572 261 3244 471 3518 401 3789 384 3800 484 6572 482 3244 471 3518 401 3789 384 3800 484 6572 482 324 324 324 324 324 324 324 324 324 32	3235 471 3509 406 3731 407 3901 483	65671/6	261
32289 471 3513 401 3781 374 3905 484 6570 281 3249 471 3513 401 3781 374 3905 484 6570 281 3249 471 3513 401 3781 374 3905 484 6570 281 3241 471 3515 401 3782 374 3906 484 6571 261 3241 471 3515 401 3782 374 3907 484 6571 261 3241 471 3515 401 3782 374 3907 484 6571 261 3243 471 3515 401 3787 387 397 3988 6572 281 3245 471 3519 401 3788 387 3908 384 6572 281 3244 471 3519 401 3788 387 3908 384 6572 281 3245 471 3519 401 3789 384 3010 484 6573 282 3245 471 3519 401 3799 384 3010 484 6573 282 3245 471 3519 401 3799 384 3010 484 6573 282 3248 471 3522 401 3799 384 3010 484 6576 282 3248 471 3522 401 3790 384 3010 484 6576 282 3248 471 3522 401 3792 384 3010 484 6576 282 3248 471 3522 401 3792 384 3010 484 6576 282 3248 471 3522 401 3792 384 3010 484 6576 282 3248 471 3522 401 3792 384 3010 484 6576 282 3248 471 3522 401 3792 384 3010 484 6576 282 322 3233 301 484 6576 382 325 325 348 471 3522 401 3792 384 3010 484 6576 382 325 325 348 471 3522 401 3792 384 3010 484 6576 282 325 325 348 471 3522 401 3792 384 3010 484 6576 282 325 325 348 471 3524 407 3795 383 3010 484 6577 282 325 325 348 471 3524 407 3795 383 3010 484 6577 282 325 325 348 471 3524 407 3795 383 3010 484 6577 282 325 325 348 471 3534 477 3795 383 3010 484 6577 325 325 325 341 3525 341 341 3525 341 341 3525 341 3525 341 341 3525 34	3230 471 3902 484	6568	261
3240 471 3514 401 3782 374 3096 484 6570 261 324 471 3515 4011 3788 374 3096 484 6571 261 324 471 3515 4011 3788 374 3097 484 6571 261 324 471 3515 4011 3788 377 3098 484 6572 261 324 471 3517 4018 3787 387 3098 384 3010 484 6573 261 324 324 471 3519 401 3789 384 3010 484 6573 262 324 3246 471 3519 401 3790 384 3010 484 6573 262 324 324 471 3519 401 3790 384 3010 484 6573 262 324 324 471 3519 401 3790 384 3010 484 6573 262 324 324 324 324 324 324 324 324 324 32		656934	261 261
3241 471 3515 401 3783 374 3807 484 6571 2 361 3784 384 361 471 3515 401 3787 377 396 484 6572 261 3787 3787 397 396 484 6572 261 3787 397 396 484 6573 262 384 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 384 397 398 398 397 398 398 397 398 398 397 398 398 397 398 398 397 398 398 398 397 398 398 398 398 398 398 398 398 398 398		6570	261
3242 471 3516 401 3788 397 3906 484 6572 261 3243 471 3517 401 3788 397 3906 484 6573 262 3245 471 3518 401 3788 397 3906 484 6573 262 3245 471 3518 401 3788 397 3906 484 6573 262 3245 471 3518 401 3789 384 3010 484 6574 262 3245 471 3518 401 3789 384 3010 484 6574 262 3248 471 3518 471 3518 401 3799 384 3010 484 6574 262 3248 471 3518 471 3518 401 3799 384 3010 484 6576 262 3248 471 3518 471 3518 401 3799 384 3010 484 6576 262 3248 471 3518 3518 401 3799 384 3010 484 6577 262 3248 471 3518 471 3518 477 3796 383 3015 484 6577 262 3248 471 3518 471 3518 477 3796 383 3015 484 6577 262 3248 471 3518 477 3797 388 3016 484 6577 261 321 321 321 321 341 3518 477 3797 388 3017 484 6597 261 321 321 321 341 3518 477 3799 383 3017 484 6597 261 321 321 321 341 3518 477 3890 383 3017 484 671 3518 321 3256 441 3518 477 3890 383 3010 484 671 321 3256 441 3518 477 3890 383 3010 484 671 321 3256 441 3518 477 3890 383 3010 484 671 321 321 3256 441 3518 477 3890 383 3010 484 671 321 321 3256 441 3518 477 3890 383 3010 484 671 321 321 3318 401 3518 477 3801 308 301 383 301 484 671 321 321 3318 401 3518 477 3801 308 301 383 301 484 671 321 321 3318 401 3518 477 3801 308 301 383 301 484 671 321 321 3318 401 3518 477 3801 308 301 383 301 484 671 321 321 3318 3318 401 3518 477 3801 308 301 302 484 671 321 321 3318 3318 401 3538 477 3801 308 301 302 484 671 321 321 3318 3318 401 3538 477 3801 308 302 484 671 321 321 3318 3318 401 3538 477 3801 308 302 484 671 321 321 3318 3318 401 3538 477 3801 308 302 484 671 321 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 302 484 671 321 3318 3318 401 3538 477 3801 308 308 308 308 308 308 308 308 308 308	3241 471 3315 401 3788 374 3007 484	65701/2	261
23244 471 3518 401 3789 384 3000 883 6572½ 262 32345 471 3519 401 3790 384 3000 484 6673 252 32346 471 3520 401 3790 384 3000 484 6673 252 32347 471 3521 401 3791 384 3011 484 6576 262 32348 471 3520 401 3792 384 3012 484 6576 262 32348 471 3520 401 3792 384 3012 484 6576 262 32348 471 3527 401 3792 384 3013 484 6577 262 32348 471 3529 467 3798 383 3013 484 6577 262 3240 411 3529 467 3798 383 3014 484 6577 462 3250 401 3000 407 3797 388 3016 484 6577 462 3251 411 3550 467 3797 388 3016 484 6577 462 3252 401 3001 407 3798 383 3016 484 6577 47 3252 401 3001 407 3798 383 3016 484 6577 47 3252 401 3001 407 3798 383 3016 484 6677 47 3252 401 3001 407 3798 383 3016 484 670 267 3254 411 3556 467 3798 383 3018 484 670 267 3257 401 3558 407 3798 383 3018 484 670 267 3257 401 3558 407 3798 383 3018 484 670 267 3257 401 3558 407 3800 381 3010 484 670 267 3257 401 3558 407 3800 381 3010 484 670 267 3257 401 3558 407 3800 381 3010 484 670 267 3257 401 3558 407 3800 381 3010 484 670 267 3257 401 3558 407 3800 381 3010 484 670 267 3257 401 3558 407 3800 381 3010 484 670 267 3257 401 3558 407 3800 106 3022 484 671 321 3350 401 3559 407 3801 408 3024 484 6714 321 3350 401 3559 407 3804 408 3027 3864 408 3026 386 6718 321 33548 4012 3556 104 3816 444 3025 566 6718 321 33548 4012 3566 104 3817 444 3027 3566 6718 321	3242 471 3516 401 3787 397 3908 484	6572	261
\$29.15 471 \$30.9 401 \$70.0 384 \$30.0 484 \$6573 \$0.02 \$32.4 56 471 \$35.0 401 \$37.0 384 \$30.0 484 \$6574 \$0.02 \$32.4 56 471 \$35.0 401 \$37.0 384 \$30.0 484 \$6574 \$0.02 \$32.4 56 471 \$35.0 401 \$37.0 37.0 384 \$30.0 484 \$6576 \$0.02 \$32.4 56 471 \$35.0 407 \$37.0 438 \$30.0 484 \$6576 \$0.02 \$32.4 401 \$35.0 407 \$37.0 438 \$30.0 484 \$6577 \$0.02 \$32.0 401 \$35.0 407 \$37.0 438 \$30.0 484 \$6577 \$0.02 \$32.0 401 \$35.0 407 \$37.0 438 \$30.0 484 \$6577 \$0.0 20 \$32.0 401 \$35.0 407 \$37.0 438 \$30.0 484 \$6577 \$0.0 20 \$32.0 401 \$35.0 407 \$37.0 438 \$30.0 484 \$6507 \$0.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0	3243 471 3517 401 3788 397 3909 82	65721/2	262
32446 471 35721 4011 3792 384 3011 4949 6575 202 3247 471 35721 4011 3792 384 3012 484 6576 202 3247 471 35721 4011 3792 384 3012 484 6576 202 3240 411 3572 4877 3704 383 3013 484 6577 202 3250 411 3572 4877 3704 383 3014 484 6577 202 3250 411 3572 4877 3704 383 3016 484 6577 202 3250 411 3572 4877 3797 383 3016 484 6507 201 3252 411 3572 4877 3798 383 3017 484 6509 207 3252 411 3572 4877 3798 383 3016 484 6707 201 3252 411 3572 4877 3798 383 3016 484 6707 201 3254 411 3572 4877 3798 383 3018 484 6706 207 3254 411 3572 4877 3799 383 3018 484 6706 207 3257 411 3572 4877 3800 100 383 3018 484 6710 321 3257 411 3573 4877 3800 100 383 3018 484 6710 321 3257 411 3573 4877 3800 100 383 3018 484 6710 321 3257 411 3573 4877 3800 100 302 484 6712 321 3257 411 3573 4877 3801 100 302 484 6712 321 3351 401 3573 477 3801 100 302 484 6712 321 3351 401 3575 477 3801 408 302 484 6712 321 3351 401 3570 477 3804 488 3024 484 6714 321 3351 401 3570 477 3804 488 3024 484 6716 321 3351 401 3570 477 3804 488 3024 484 6716 321 3351 401 3570 477 3804 488 3024 484 6717 321 3351 401 3570 477 3804 488 3024 484 6717 321 3351 401 3570 477 3804 488 3024 484 6717 321 3351 401 3570 477 3804 488 3024 484 6717 321 3351 401 3570 477 3804 488 3024 484 6717 321 3351 401 3570 477 3804 488 3024 484 6716 321 3351 401 3570 4877 3804 488 3024 484 6716 321 3351 401 3570 4877 3804 488 3025 366 6718	3245 471 3519 401 3790 384 3910 464	6573 6574	262
3248 471 3227 391 391 484 6576 962 3234 471 3729 384 3912 484 6577 262 392 3920 484 6577 4 262 3921 411 3729 477 3796 383 3914 484 6577 4 262 3921 411 3729 477 3796 383 3916 484 6577 4 262 3921 411 3534 477 3796 383 3916 484 6590 267 3927 3927 311 3532 447 3799 383 3917 484 6589 267 3927 3927 3927 3927 3927 3927 3927 392	3246 471 3520 401 3791 384 3911 484	6575	262
\$22.0 411 30.50 407 57.50 383 3914 494 6577½ 262 322.0 411 30.50 407 57.50 383 3915 494 6580 491 325.1 411 30.50 407 37.50 383 391.0 494 6580 491 325.2 411 30.50 407 37.50 383 391.0 494 6580 261 325.3 411 30.50 407 37.50 383 391.0 494 6670 267 325.3 411 30.50 407 37.50 383 391.0 494 670 267 325.3 411 30.50 407 37.50 383 391.0 494 671.0 321 325.6 411 30.50 407 390.0 383 391.0 494 671.0 321 325.6 411 30.50 407 390.0 383 391.0 494 671.0 321 325.6 411 30.50 407 390.0 383 391.0 494 671.0 321 325.6 411 30.50 407 390.0 383 391.0 494 671.0 321 321 321 321 321 321 321 321 321 321	3248 471 3521 401 3792 384 3912 484 3248 471 3527 397 3794 388 3913 484	6576	262
9291 411 3509 4477 3797 383 3910 484 6597 261 322 3254 411 3531 457 3799 383 3916 484 6597 261 322 467 3799 383 3918 484 6710 321 3256 411 3534 467 3799 383 3918 484 6706 267 326 3256 411 3534 467 3890 383 3918 484 6710 321 3256 411 3534 467 3890 383 3918 484 6710 321 3256 411 3534 467 3890 383 390 484 6710 321 3256 411 3534 467 3890 383 390 484 6710 321 3256 3256 411 3535 467 3892 383 392 484 6712 321 321 3338 401 3537 477 3893 106 3922 484 6712 321 3319 3318 401 3538 467 3890 106 3922 484 6713 321 3319 319 319 319 319 319 319 319 319 3	3279 411 3328 467 3795 383 3914 484	65771/4	
39593 4411 35591 4677 37598 383 3917 484 68699 207 39593 441 35592 467 37599 383 3918 484 6705 207 3254 411 35594 467 3890 383 3919 484 6705 207 3255 4411 35594 467 3890 383 3919 484 6710 321 3255 4411 35594 467 3890 383 3919 484 6711 321 3255 4411 3559 467 3890 383 3919 484 6711 321 325 325 325 325 325 325 325 325 325 325	3251 411 3529 457 3796 383 3915 484 3251 411 3530 457 3797 999	6580	431
3253 411 3532 457 3799 383 3918 494 6706 297 3254 411 3533 457 3890 383 3910 484 6710 321 3256 411 3535 457 3891 383 3920 484 6710 321 3256 411 3535 457 3892 383 3921 484 6712 321 3257 411 3536 457 3892 383 3921 484 6712 321 3258 401 3537 457 3894 106 3922 484 6712 321 3338 401 3537 457 3894 106 3923 484 6714 321 3399 401 3538 457 3814 438 3924 484 6715 321 3310 401 3538 457 3815 438 3925 356 6716 321 3314 412 3566 104 3816 444 3926 356 6716 321 3348 412 3561 104 3817 444 3927 356 6718 321	3252 411 3531 457 3798 383 3917 484 3252 411 3531 457 3798 383 3917 484	6597 6699	261 267
3256 411 3535 457 3891 383 3920 484 6711 321 3256 411 3535 4677 3892 383 3920 484 6712 321 3257 411 3535 4577 3893 106 3922 484 6712 321 3338 401 3537 457 3893 106 3922 484 6714 321 3389 401 3538 467 4838 3924 484 6714 321 3389 401 3538 467 4838 3924 484 6715 321 3310 401 3529 457 3815 438 3924 484 6716 321 3314 491 3538 491	3253 411 3532 457 3799 383 3918 484	6705	267
3256 411 3595 4677 8802 384 522 484 6711 321 322 322 484 6712 321 322 484 6712 321 323 484 6712 321 323 484 6712 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 323 484 6714 321 324 484 6714 321 324 484 6714 321 324 484 6714 321 324 484 6714 321 324 484 484 484 326 6714 321 324 484 484 484 484 484 484 484 484 484 4	3254 411 3533 457 3800 383 3919 454 3255 411 3534 457 3800 993 2690 554	6710	321
\$9277 411 35:36 467 3803 106 39:22 494 67:13 32:1 33388 401 35:37 467 3804 106 39:23 484 67:14 32:1 3389 401 35:38 467 38:14 438 30:24 484 67:15 32:1 3310 401 35:39 457 38:15 438 30:25 35:6 67:16 32:1 3047 412 35:66 104 38:16 444 39:26 35:6 67:17 32:1 3348 412 35:61 104 38:17 444 39:27 35:6 67:18 32:3	3256 411 3535 467 3892 383 3921 484	6711	321 321
3389 401 3538 477 3814 438 3924 484 6715 321 3310 401 3559 457 8415 438 3924 484 6715 321 3347 412 3566 104 3816 444 3926 356 6716 321 3348 4412 3561 104 3817 444 3927 356 6718 321	3257 411 3536 457 3803 106 3922 484	6713	321
3310 401 3539 457 3815 438 3025 484 6110 321 3347 412 3566 104 3816 444 3026 356 6716 321 3348 412 3561 104 3817 444 3027 356 6718 323	3389 401 3538 457 3804 106 3923 484 3389 401 3538 457 3814 438 3924 494	6714	321
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3340 401 3530 467 3815 438 3925 356	6716	321
	3548 412 3556 104 3816 444 3926 356 358 412 3717 444 3926 356	6717	321
		6710	323

CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	Page.	Cat. No.	Page.	CAT No.	PAGE.
1999	运搬货货售易贷的的复数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数	48641/4 486	\$	80778 80739 8081 8081 8082 8083 8084 8086 8086 8087 8088 8089 8090 8090 8090 8091 8091 8091	\$	8170 8177 8177 8177 8177 8177 8177 8177	11111111111111111111111111111111111111	8274 8276 8277 8277 8277 8277 8277 8278 8281 8282 8282	41 41 41 41 41 41 41 41 41 41 41 41 41 4
6778 6778 6798 6790 6807 6808 6800 6811 6813 6813 6813 6813 6813 6813 6813	423 437 438 438 381 381 381 381 382 262 262 262 262 262 262 262 262 262 2	8043 8044 8044 8046 8046 8040 8050 8050 8052 8052 8053 8054 8055 8055 8055 8055 8055 8055 8055	建设在在在在在在在在在在在在在在在在在在在在在在在在在 在在在在在在在在在上,	8141 8142 8144 8146 8146 8146 8146 8146 8146 8150	\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$	8:239 8:244 8:242 8:244 8:244 8:245	111111112222244444444444777777777777777	8351 8353 8354 8354 8357 8357 8350 8303 8303 8303 8303 8303 8303 8303	47 47 47 47 47 47 47 47 47 47 47 47 47 4

				·			1	11	
CAT. No.	PAGE.	Cat. No.	PAGE.	CAT. No:	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
8405	48	8552	51	8708	165	8858	211	9129	205
8406	48	8553 8555	51	8709	1 165	8859	211	9130	205
8408	48	8755	51	8710	165 165	8860 8861	211	9131	205
8409 8411	48	8556 8558	51 51	8711. 8712	208	8861 8862	211 211	9132 9133	206 206
8412	48	.8559	51	8716	165	8863	211	9134	204
8414	48	8561	51	8717	165	8864	211	9135	204
8415 8417	48	8562 8564	52	8720 8723	272 106	8865 8866	211	9136 9137	204 204
8418	48	8565	52	II 8724	106	8866 8867	211 211	il 9138	205
8420	***************************************	8567	52 52 52 52 52	8725	175	() 8868	21-1	9140	203
8421 8423	48	8568	52 52	87251/4 8726	239 175	8869 8870	211	9141	208
8424	48 48	8570 8571	52	87261/2	412	8871	2fI 211	9164 9200	422
8426 8427	48	l) 8573	52 52 52	II 8727	412	11 8872	i 211	il 9266	432
8427 8429	48 48 48	8574 8576	52	8728 8729	412 412	8873 8874 8875	211 211	9290 9293	292
84:30	48	8576 8577	52	8730	412	8875	211	9293 9301	291 434
8432	1 48	ii 8579	52 52 52	.8731	224	11 8876	211	9308	422
8433 8435	48	8580 8582	52	8732 8734	224 224	8877	211	9315	422
8436	48 48 49	8583	52 52	8735	224	8878 8881	208 412	9319	86 442
84.48	49	8585	52	8736	224	8882	1 291	9327 9328	291
8439	49	8586	53	8737	225	8883	291	9378	14
8441 8442	49 49	8588 8589	52 52	8739 8740	225 225	8899 8900	444	9379 9380	14 14
8414	49	9 8591	52	ll 8741	225 225	8901	444	9881	14
8445 8447	49 49	8592 8594	52 52 52	8742 8746	433 407	8902 8903	411	9382	14
8447 8448	19	8594 8595	52	8740 8747	225	8903 8904	414 414 411	9383 9383½	14
8450	49 49 49	8597	52 52	8748	225	8905	444	11 9384	292 14 291
8451 8458	49	8508 8500	1 53	8749	487 487	8906	444	9386	291
8454	49	8600	53 53	8750 8751	487	8907 8908	431 431	9387 9388	291 291
84 56	4.9	8601	53	8752	487	11 8909	431	9389 9391	201
8457 8459	49 49	8602 L 8603	53 63	8753 8765	487 209	8910 8913	431 201	9391 9392	291
8460	49 49	1] 8604	53	8766	209	8966	464	9393	292 292
8462	49	8605	53 53	8767	200	8967	464 464	9394	292
8463 '8465	49	8696 8607	53	8768 8769	210 210	8968 8969	464	9395	292
8466	49	¦ 8608	58	8770	208	8970	465	9400 9400	84 247
8468 8469	49 49 49	8609 8610	53	8771	208 208	8971	465	94001/ 94021/	247
8471	49	8611	53 53	8772 8773	208	8972 8973	465 151	94021/2	247 217
8472	50 50 50 50 50 50 50 50 50 50	8612	53	8788	381	8974 8975	151	9404	247
8474	50	8613	53 400	8789 8790	381 111	8975 8976	151 151	9405	247
8475 8477	{ 50 }	8624 8625	400	li 8791	iii	8977	152	9406 9407	247 247
8478	50	8626	400	8792	111	ll 8978	152	9408	247
8480 8481	50	8627 8632	400 385	8793 8794	111 111	8979 8980	152	9410	247 247 247
8483	50	8633	385	8795	111	18981	152 152 152	9411 9412	247 247
8484 8486	50	8634 8635	985	8796	.111	8982	152	ll 9413	247
8487	50	8636	885 462	8797 8798	111 111	8983 8984	108 108	9414 9415	247
8489	50	8637	462	8799	111 111	H 8985	108	9416	247 247 247
8490 8499	50	8638 8639	462 462	8890 1088	111 441	8996 8987	108	9417	247
8493	50 50 50 50 50 50 50 50	ll 8640	458	8802	184	8988	108 108	9418 9419	247 247
8495 8496	50	8641 8642	458 460	8803 8804	184	11 8989	108	9419	247
8498	50	86+2 8643	460 460	8804 8805	184 185	8989½ 8990	442	94681/2	460
8499	50	8646	460	8806	185	8992	108 461	9530 9531	292 292
8501 8502	50	8647 8648	460	8807 5808	185	8993	461	9532	292
8504	50	8649	460	8809	186 186	8994 8995	461 461	9533	292
8505 8507	. 50	8650	406	8810	186	8996	461	9537 9538	293 293
8508	50	8651 8652	406 405	8811 8815	186 199	8997 8998	461	9539	293
8510	50	8653	405	8816	199	9061	442 270 270	9540 9542	293 293
8511 8513	50	8654 8655	405 405	8817 8818	199	9063	270	9543	293
8514	50.	8656	405	8819	199 199	9065 9066	462 462	9544 9545	293
8516 8517	50	8657	459	8820	199	9067	462	9547	293 293
8519	50 50 50 50 50 50 50 50 50 51	8658 8659	459 459	8821 8822	203 203	9068	463	9548	298 298
8520	sî,	8660	450	8823	203	9069 9070	463 463	9549 955 0	293
8522 - 8523	51 51 51	8661	459	8824	1 204 1	li 9071	463	9552	293 294
8525	51	8662 8663	459 460	8825 8826	209 210	9072	463	9553	294
8526	61	8677	107	8827	210	9073 9074	487	9554 9555	294 294
8528 8529	51 51	8678 8679	107	8828 8829	210	-9075	487 487	9557	294
8531	51	8680	107	8830	210 95	9076 9077	487 487	9558	294
8532 8534	51 51 51	lf 86×1	107	8836	98	9078	487	9559 9560	294 294
8535 8535	51 51	8682 8683	107 107	8837 8839	98	9107	291	9502	294
8537	51	8684	107	8840	98 98	9118- 9119	201 201	9563	294 294
8538 8540	i ta f	8689	280	8812	98	1 9120	203	9564 9565	294 294
8541	51 51	8691 8692	105 105	8843 8845	98 98	9121	200	9568 9560	292
8543 8544	51	.8701	40%	8816	198	9122 9123	202 202	9569 9570	292
8546	51° 51-	8703 8704	18I 18G	8849	98	9123 9124	202	9571	292 292
8547	1 51 1	8705	186	8851	98 163	9125 9126	203 204	9634	292
8549 8559	51 51	8706 8707	.161	8852	163	9127	206	9683 13210	292 409
1	_ "	8/9/	161	8857	211	9128	206	13211	409
		·			<u></u>			!	

0 - 2		1	1	1	1	1		11	
CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
13212	409	14917	374	15168	394	15493	457	20015	12
19213, 1 3 214	409 409	14918 14920	374 374	15165 15166	397	15800	491	20017	12
13215	409	14921	374	15170 15175	897 397	15801 15802	491 491	20018 20020	12
13216 13217	409 409	14923 14925	374 375	15175 15190	397	15304	491	20021	13
13218	409	14926	375	15181	398 398	15805 15810	491 491	20022 20023	13 18
13219 13220	409 409	14927 14928	375 375	15182	398	15811	491	20024	13
13221	409	14929	375	15183 15185	398 398	15F12 15813	491 491	20025 20026	13 13
13222 13223	409 400	14930 14931	375 375	15186 15187	398	15820	491	20027	13
13224	409	14932	375	15190	398	15821 15822	491 491	20028 20029	13 13
13225 13226	409 409	14933	375	15191	398	15823	491	20030	66
13227	409	14936	877 377 377	15192 15193	398 398	15824 15825	491 491	.20040 20041	33 33
13235 13236	409 409	14937 14938	377 377	15195 15260	398	15830	491	20042	33
13237	409	14940	377	15201	3:19 3:99	15831 15845	491 491	20043 20044	33
13238 13239	409 409	14941 14942	377 877	15202 15205	399 399	15836 15837	491 491	20045 20046	33
13240	409	14945	378	15206	399	15838	491	20047	33 33 33 83 83
13241 13242	. 409 400	14946 15095	378 378	15207 15210	399 539	15840 15841	491 491	20048 20049	33
13243	409	15097	373	15211	399	15842	491	20050	33 34
13244 13245	409 400	15010 15011	373 373	15212 15218	399 399	15843 15845	491 492	20051 20052	34 34 32
13246 13247	409 409	15012	373	15215	209	15846	492	20053	32
13247	410	15015 15018	376 378	15216 15220	399 402	15847 15848	492 492	20054 20055	32 32
13261 13262	410 410	15020	378	15222	402	15849 15850	492	20056	32
13263	410	15021 15025	378 379	15225 15230	402 403	15850 15851	492 492	20057 20058	32
13264 13265	410 410	15026 15030	379 381	15245	496	15852	492	11 20059	32 32 32 32
13266	410	15931	381	15390 15301	420 420	158 53 15860	492 492	20060 20061	32 32
13267 13269	410 419	15032 15033	381 381	15302 15305	420 420	15861	492	20062	32
13270	410	15035	381	15308	421	15862 15863	492 492	20963	32 32
13271 13979	410 410	15840 15841	382 382	15310 15312	421 421	15864 15865	492 492	20065 20066	32
13272 13273	410 410	15042	382	16325	439	15866	492	20067	26 26
13274 13275	410	15043 15045	382	15416 15417	449 449	15867 15868	492 492	20068 20069	. 26 . 26
13276	410	15046	382	15418	449	15869	492	20070	26
13277 13278	410 410	15947 15050	382 392	15420 15421	450 450	15870 15871	492	20071	26 26 27 27 27 27 27 27
13279 13280	410 410	15052 15055	392 382	15422 15423	450	15872 15875	492	20073	26
13281	410	15056	382	15425	450 450	15876	493 493	20074 20075	27
13285 13286	410 410	15057 15058	382	15426 15430	450 451	15877	493 493	20076	27
13287	410	15000	384	15431	451	15879	493	20077 20078	27
13288 13289	#10 #10	15062 15063	384 384	15432 15433	451 451	15880 15881	493 493	20079 20080	27
13290 13291	410	15065 15066	385	15434	451	15882	4934	20081	27 27 27
13292	410 410	15667	385 385	15435 15440	451 451	15883 15884	493 493	20082 20083	27
13293 13294	410 410	15068 15070	385 386	15440 15441 15442	451 451	15885 15886	493 493	20084	27
13295	410	15071	386	15443	451	15887	493	20685 20086	27 27 27 27 27 27
13296 13297	410 410	15075 15076	387 387	15444 15446	451 451	15890 15891	493 403	20087 20089	27
13298	410	15077	387	15447	* 451	15892	493	20090	27
13299 13310	410 411	15078 15080	387 387	15456 15456	451 451	15893 15894	493 493	20091 20092	27
13311 13312	411 411	15985 15986	396 396	15457 15458	451	15895	493	20093	27
13313	411	15115	388	15459	451 451	15896 15897	493 493	20094 20095	27 27 27 27 27 27 27 28
13314 13315	411 411	15116 15117	388 388)5460 15461	454 454	15898 15899	493 493	20096 20097	28 28
13316	411	15118	388	15462	454	18757	449	20038	28
13317 13580	4)1 306	15120 15121	388 388	15463 15464	454 454	18758 18759	449 449	20099 20100	28 28 28 28 28
13581 13582	306	15122 15123	388	15465	454	18760	449	20101	28
13583	306 306	15)24	388 388	15366 15467	454 454	18761 18762	449 449	20102 20103	28 28
13585	307	15125	388	15)79)5471	454	18763 18764	449	20104	28 28 28 28 28 28
13586 13587	307 307	15126 15127	388 388	15472	454 454	19760	449 489	20105 20106	28
13588 13993	307 410	15128 15130	388	15473 15475	454 454	19761 19762	489 489	20107 20108	28 28
13994	410	15132	388	15176	454	19763	489	20109	28
13995 13996	410 410	151 to 15142	394 394	15477 15478	454 454	19764 20001	489 9	20110	28 28 28 28
14850	108	151 (5	394	15480	457	20002 20003	9	20112	28
14851 14852	108 108	151 18 35150	394)5481 15482	457 457	20004	12 12	20113 20114	28 24
14853 11854	108	15152 15153	394	15483 15484	457 457	20005 20006	12 12	20115	24
11865	108 108	15154	394	15485	457	20007	12	20116 20117	13 13
14856 14910	108 373	15)55 15)56	394	15486 15487	457 457	2008	12 12	20118 20119	46 46
14911	373	15157	391	15-188	457	20010	12	20120 20121	46
14912 14913	373	15158 15159	394 394	15489 15490	457 457	20011 20012	12 12	20122	46
14915	973 373	15100 15162	394 394	15491 15192	457 457	20013 20014	12 12	20123 20124	47 47 47
14916	37.5	10162	359	15152	1 301	10071		20124	47

CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	Page.	Cat. No.	PAGE.
						00400	110	00541	101
20125	47	20233 20234	92 92	20333 20334	36 36	20436 20437	118	20541 20542	121 121
20126 20127	47	20235	92	20335	1 36	20438	118	20543	121
20128	47 47 47	20236	92 92	20336	37 37	20439	118	20544	121 121
20129	47	20:237	93 93 95 95	20337 20338	37 37	20440 20441	118	20545 20546	121
20130	48	20238 20240	95	20338	37	20441	118	20547	121
20131 20132	48 48	20241	95	20340	37	20443	118	20559	122
20133	1 48 1	20242	95	li 20341	37 37 37 37 37 37 37	20444	118	20560	122 122
20184	48	20243	97	20342	37	20445	118	20561 20562	122
20136 20136	48 49	20244 20245	97 97 97 97	20343 20345	37	20446 20447	118	20563	122 122 122
20136	49	20246	97	20346	37	20448	118	20564	122
20138	49	1 20247	97	20347	87	20449	118	20566	122
20139	49	20248	97 97	20348 20349	37	20450 20451	118 118	20567 20568	122 122
20140 20141	49 49	20249 20250	07	20350	37 37 37	20452	118	20569 20570	122 122
20142	49	20251	97	20351	37	20452 20453	118	20570	122
20143	49	20252 20253	97 97 97 97 89	20352 20354	112 112	20454 20455	118 118	20571 20593	122 123
20144	50	20258	97	20354	112	20456	118	20594	123
20145 20146	50 50 50	20255	89	20356	112	20457	119	20595	123
20147	50	20256	90	11 20357	112	11 20458	119	20596 20597	123
20148	51	20257	90	20358	112 112	20459 20460	119 119	20597 20598	123
20149 20150	51 51	20258	90	20559 20360	112	20461	110	20599	123 123
20151	51	20259 20260	96	20361	112	20462	119	20600	123
20152	1 51	20261	90	20362	112	20463	119	20601	123
20153	51	20262	90	20363	112	20464	119	20602	123
20154 20155	52 52	20263 20264	90 99 99 99 99 99 99 99 99 99 99 99 99 9	20364 20365	112 112	26465 20466	119 119	20603 20604	128 123
20156	52	20265 20266	90	1 20366	1112	20467	119	20605	123
20157	52 52	20266	98	20367	112	20468	119	20606	123 123 123 123 123
20158 20159	52 52	20267 20268	98 97	20368 20369	112 112	20469 20470	119 119	20607 20608	123
20160	52 52	20269	91	20370	112	20471	119	20609	123
20161	52 52	30.70	91	20372	112	20473	119	1 20610	123 123
20162	52	20271 20272 20273	91 91	20373	112 112 112	11 20473	119	20611	199
20163	52 52 52	20272	91	20374 20375	112	20474 20475	119 119	20612 20613	123 123 123 123 123
20164 20165	52	20274	91	20376	112	20476	119	20614	123
20166	53	20275	91	20377	112	20477	119	20615	123
20167	53	20276	91	20379	112	20478	119	20616	123
20168 26169	53	20277	91 91 91	20380 20381	112 112	20479	119 119	20617 20618	123 123
20170	53 53 53 78 78	20278 20279	91	20382	112	20480 20491	119	20619	123
20171	53	20280		20383	t 112	20482	119	11 20620	123
20172 20173	78	20281 20282	91 35	20384 20385	112 112	29483	119	20621	123 123 123
20174	79	20283	35	20385	112	29484 26485	119	20622 20623	123
20175	78	20000	85	20388	112	20486	119	20624	123
20176	78	20285	35	20359	112	20487	119	20625	123
20177 20182	78 78 78 78 11	20286 20287	85 85 85 35	20390 20391	112 112	20488 20489	119 119	20626 20627	123
20183	11	20288	35	20392	112	20490	119	20628	123
20184	11	20289	35	20393	112	20491	119	20629	124
20195 20186	11 68	20290 20291	35 35 35 35	20394 20395	112	20492	119	20630	124
20187	68	20292	35	20396	112	20493 20494	120 120	20631 20632	124
20188	68	20293	35	l{ 20397	113	11 20495	1 120	20633	124 124
20189 - 20190	68	20294 20295	85 35	20398 20399	113	20496 20497	120	20634	124 124 124
20191	68 68 72 72 72 72 72 72	20296	35	20400	113 113	20498	120 120	20635 20636	124
20192	72	20297	35 35 35 35	1 20401	113	20439	120	20637	124
20193 20194	72	20298 20299	35	20402 20403	113	20500 20501	1 120	20638	194
20195	72	20300	36 36	20403	113 114	20502	120 120	20639 20640	124 124
20196	72	20301	36	20465	114	20503	120	20641	124
20197 20198	72	20302 20303	36	204051/2	114	20504	120	20642	124 124
20199	72 58	20303	36 36 36	20407 20408	114 114	20505 20506	120 120	20643	124
20202	84 1	20:105	1 36	20409	114	20507	120	20644 20645	124 124
20203	84	20306	36	20410	114	20508	120	20646	124
20204 20205	84 84	20:107	36 36	20411 20412	114 114	20509 20510	120 120	20647 20648	124
20205 20206) 84	20309	36 36	20412	114	20511	120	20648 20649	124
20207	84	20310	[36	1 20414	114	20512	120	20050	124 124
20208 20209	84 84	20311 20312	36 36	20415 20416	1 114	20513 20514	120	20651	124
20210	84 84	20312	36	20416	118 118	20514	120 120	20652 20653	124 124
20211	84	20:14	36 36	20418	118	20516	120	20654	124
20212 20213	85 85	20315 20316	36 36	1 20419	118	20517	120	20654 20655	124
20214	85 86	20316	36 36	20420 20421	118 118	20518	120	20056	124 124 124
20215	85	20318	36	20122	118	20519 20520	120 120	20657 20658	124 124
20216 20217	85 85	20319	36	20423	118	ll 20521	120	20659	124
20217 20222	85 85	20320 20321	36 36	20424 20425	118 118	20522	120	20660	124
20223	85	20322	36	20426	118	20523 20528	120 121	20661 20662	125
20224	85	20323	36	20427	118	20529	121	20662	120
20225 20226	85	20324	36	20428	118	20530	121	20664	125 125 125 125
20227	85 87 87	20325	36 36	20429 20430	118 118	20531 20532	121	20665	125
20228	87	20327	86	20431	118	20532	121 121	20666 20667	125
20229 20230	92	20328	36	ll 20432	118	20534	121	29668	125 125
20230	92 92	20329 20331	36 36	20433 20434	118 118	20535 20539	121	20669	125 126
20232	92	20332	86	20434	118	20539 2064 8	121 121	20670 20671	125 125
	1	1		11	1	20010	1 22	2001)	120

CAT. No.	PAGE.	Sam No	0		l - 1		1	1	1
		CAT. No.	PAGE.	CAT. No.	PAGE.	CAT No	PAGE.	CAT. No.	PAGE.
20672 20673	125 125	20893	188	20992	169	21113	170	21237	173
20674	125	20894 20895	188 181	20993 20994	169 169	21114 21115	170 170	21267 21269	175 140
20675	125	20896	181	21000	262	21116	170	ll 21270	140
20676 20677	125 125	20897 20898	182 182	21(01 21002	262 262	21117	170	21271	140
20678	125	- 20900	139	21003	262	21118 21119	170 170	21272 21273	140 140
20679 20680	125 125	20901 20902	139 139	21004	263	21120	170 170	21273 21274	140
20681	125	20903	139	21005 21006	263 263	21121 21122	170 170	21275 21276	140 140
20682 20683	125 125	20904	139	1 21007	263	21123	170	21277	140
20684	125	20905 20.006	139 139	21008 21009	263 263	21124 21125	170	21278 21279	140
20685	125	20907	139	21010	263	21126	170 170	21280	140 140
20686 20687	125 125	20908 20909	139 129	21011 21012	263 263	21127 21128	170 170	21281 21282	140 140
20688	125	20910	139	21013	263	21129	170	21283	140
20689	125 125	20011 20012	139 139	21014 21015	263 263	21130 21131	170 170	21284 21286	140 140
20691	125	20913	139	21016	133	21132	170	21287	140
20692 20693	126 126	20914 20915	139 139	21017 21018	133	21133	170	21288	140
20694	126	20916	139	21018	133 133	21134 21135	170 170	21294 21350	275 157
20695	126	20917	139	21020	133	21136	170 170	21351	157
20696 20697	126 126	20918 20919	139 139	21021 21022	133 133	21137 21138	170	21352 21353	157 179
20698	126	20920	139	21024	153	21139	170	21354	179
20699 20700	126 126	20921 20922	139 139	21025 21026	133 133	21140 21141	170 170	21355 21358	175 180
20701	126	20923	139	21027	133	1 21142	170 170	21359	180
20702 20703	126 126	20924 20925	139	21028 21029	133 168	21143 21144	170 170	21360 21361	179 253
20704	126	20926 20927	139	21030	168	21145	170	21362	253
20723 20724	79	20927 20928	139	21031 21032	168 168	21146 211 4 7	170	21363	253
20725	126 79 70 70 70 70	20929	139	21033	178	21147	170 170	21364 21365	253 253
20726 20727	70	20930	139	21034	178	21148 21149	170	21366	253 253
20728	70 70 70	20931 20932	139 139	21035 21036	178 178	21150 21151	171 171	21367 21368	253 253
20729	70	20933	139	21037	178	21152	171	21369	253
20760 20761	105 105	20934 20935	139 139	21038 21039	178 178	21153 21154	171 171	21370 21371	259 259
20762	105	20936	139	21040	178	21155	171 171	21372	259
20763 20764	137	20937 20938	139 139	21041 21042	178 178	21156 21157	171 171	21373 21374	259 259
20765	137	20939	139	210 1 3	1 178 1	21158	171	21375	259
20766 20767	137 137	20940 20941	139 139	21044 21046	178 178	21159 21160	171	21376	260 260
20768	138	20942	139	21046	178	21161	171 171	21377 21378	260 260
20769	138	20943	139	21048	162	21162	171	21379	260
20770 20771	138	20944 20945	139	21049 21050	162 162	21163 21164	171 171	21380 -21381	260 260
20772	236	20946	139	21051	163	21165	171 171	21382	260
20773 20774	236 236	20947 20948	139 139	21052 21053	163 162	21166 21167	171	21383 21384	260 260
20775	236	20949	139	21054	162	21168	197	21385	260
20776 20777	182	20050	139 139	21055 21056	176	21169 21170	197 197	21386 21387	260 260
20778	183	20951 20952	139	21057	176 176	21171	197	21389	260
20779 20856	183 93	20953 20954	139 140	21058 21059	164 164	21198 21199	173 173	21390 21391	260 260
20857	93	20955	140	21060	164	21200	173	21392	260
20858 20859	199 102	20956 20957	140 140	21061 21062	164 164	21201 21202	173 173	21393 21394	260 260
20860	102	20958	140	21079	160	21203	173 173	21395	260
20861 20862	102 100-192	20959 20960	140 140	21080 21081	160 160	21204 21205	173 173	21396 21397	260 264
20863	100	20961	140	21082	192	21206 21207	173	21398	264
20864 20865	100 184	20962 20963	140	21683 21684	192 192	21207 21208	173	21399 21400	264
20866	184	20964	140	21085	191	21209	173 173	21401	264 264
20867 20868	184 184	20965 20966	140 140	21086 21087	191 191	21210 21211	173 173	21402 21403	264 264
20869	184	20967	140 140	21088	191	21212	173	21404	263
20870 20871	184 184	20968 20969	140 169	21089 21090	191 - 191	21213. 21214	173 173	21405 21406	263 263
20872	184	20970	169	21091	169	. 21215	173	21407	263
20873	192 192	20971	169 169	21092 21093	169 169	21216 21217	173	21408 21409	263
20874 20875	192	20972 20973	169	21094	169	21218	173 173	21410	263 263
20876	192	20974	169	21095	169	21219	173	21411	263
20877 20878	192 192	20975 20976	169 169	21096 21097	169 169	21220 21221 21222	173 178	21412 21413	263 263
20879	183	20977	169	21098	169	21222 21223	173	21414	263
20880 20881	183	20978 20979	169 169	21099 21100	169 169	21224	173 173	21415 21416	263 263
20882	189	20080	169	21101	169	21225	173	21417	263
20883	189 186	20981 20982	169 169	21102 21103	169 169	21226 21227	173 173	21418 21419	263 263
20884 20885	186	20983	169	21104	169	21228	173	21420	263
20886	185 185	20984 20985	169 169	21105 21106	169 170	21229 21230	173 173	21421 21422	263 263
20887 20888	185 185	20986	169	21107	170	91231	173	21423	263
20889	182	20987	169 169	21108 21109	170 170	21232 21233	173 173	21424 21425	263 259
	187	20988 20989	169	21110	170	21234	173	21426	259 259
208891/g 20890	187								
20890 20891 20892	187 187 188	20090 20091	169 169	21111 21112	170 170	21235 21236	173	21427 21428	259 259

CAT. No.	PAGE.	CAT. No.	PAGE.	Cat. No	Page.	· CAT. No.	PAGE.	CAT. No.	PAGE.
					ļ				
21933	276	22033	287	23030	301	23131	404	24922	327
21934 21935	276	22034 22035	287 287	23031 23032	301 301	23132 23133	404	21023 24024	327
21936	279	22036	287	23033	301	23134	404	24025	327 327
21937	276 276 279 279	22037	287	23034	301	23135	290	24026	327
21938	1 279	22038	287 287 287	23035	1 301	23136	290	240:27	326
21939 21940	279 279	22039 22040	287 287	23036 23037	302 302	23137 23138	290 290	24028 24029	326
21941	278	22041	287	23037	302	23138	290	24029 24030	326 326
21942	1 278	22042	987	93030	302	23140	290	24031	326
21943 21944	278 278	22042 22043 22044	287 281	23040 23041	302	23141	290	24032	326
21945	278	22044 22045	281 281	23044 23042	302 302	23142 22143	290 290	24033	326
21946	278	22046	281	23043	302	23144	290	24034 24035	326 326 326
21947	278	22047	281	23044	302	23145	290	24036	326
21948 21949	278 277	22048 22049	295	23045	302 302	23146	290	24037	326
21950	277	22049	295 295	23046 23047	303	23147 23148	290	24038	.326 326
21951	277	22051	205	23048	303	23149	290	24039 24040 24041	326
21952	277	22052	295	23049	303	23150	290	24041	326 326
21953 21954	277	22053 22054	295 295	23050 23051	303	23151 23152	290 308	24042 24049	326 326
21955	277 277	22054	295	23052 23053	303	23153	308	24044	326 326
21958	281	11 22056	1 295	23053	303	23154 23155	309	24045	326
21959 21960	281 280	22057 22058	295 295	23054 23055	303 303	23155 23156	309	24046 24047	326
21961	280	22058 22059	295	23056	303	23156	309	24047	326
21962	280	22060	295	ll 23057	303	23158	309	24049	326 326
21963 21964	280	22061	295	23058	304	23159	310	24050	326
21964 21965	282 282	22062 22963	295 295	23058 23059 23060	304 304 304	23160 23161	310	24051	326
21966	282	22064	295	23061	304	23162	314	24052 24053	326 326
21967	282	22065	295	23062	304	23163	311 311	24053 24054	326
21968	282 282	22066	296	23063	304	23164	312	24055	326 326 326
21969 21970	282 282	22067 22068	296 296	23064	304 304	23165 23166	312 312	24056 24057	326 343
21971	282	22069	296	23065 23066	304	23167	312	li 24058	324
21972	283	22070	296	23067	304	11 23168	312	24059 24060	324
21973	283	22071 22072	296 297	23068 23069	305 305	23169 23170	312	24060	324
21974 21975	283 283	22072	297	23070	305	23170	312 311	24061 24063	324 324
21976	283	22074	300	23071	305	23172	311	24064	389
21977	283	22075	300	1 23072	305	23173	311	24065	389
21978 21979	283 283	22076 22077	300	23073 23074 23075	305 305	23174 23175	311 313	24075	389
21980	283	22078	300	23075	235	23176	313	24076 24077	389 389
21981	283	22079	300	23076 23077	179	23177	313	24078	389
21982	283	22080	300	23077	180	23178	313	24079	389
21983 21984	283 283	22081 22082	300 300	23078	161 220	23179 23180	313 313	24080, 24081	389 391
21985	283	22083	300	23079 23081	220	23181 23182	314	24082	324
21986	283	22084	300	23084	270	23182	314	240821/2	391
21987 21988	285 285	22085 22086	300 300	23085 23086	270 190	23183 23185	314 315	24083 24084	391 391.
21989	285	22087	300	23087	190	23187	315	24085	390
21990	285	22088	300	23088	288	11 22188	315	24086	390
21991	285 285	22089	-300 300	23088 23089 23090	288 288	23189 23190	316	24087	390
21992 21993	285	22090 22091	300	23091	288	23190	316 316	24088 24089	390 390
21994	285	1 22092	300	23092	288	23192	316	1 24090	390 390
21995	285	22093	300	23093	288	23193	316	24091	390
21996 21997	284 284	22094 22095	300 300	23094 23095	289 291	23194 23195	316 316	24992 24093	390 390
21998	284	22096	300	23095 23096 23097	291 291	23196	316	24094	390
21999	284	1 22097	300	23097	1 291	li 23197	317	24995	390
22000: 22001	284 284	22098 22099	300 300	23098 23099	272 272	23199 23400	318 318	24096 24097	390
22002	284	22552	231	23100	272	23563	454	24098	390 390
22003	284	23000	301	ll 23101	272 272 272 272	23564	454	24099	1 399
22004	284 284	23001	301 301	23102 23103	272	23565 23566	454	24100	439
22005 22006	284	23002 23003	301	23104	207	11 23567	454 454	24101 24102	439 439
22006 22007	284	H 23004	301	23105	207	23568	454	1 24103	439
22008	284	23005	301	23106	207 207	23569	454	24107 24108	439
-22009 22010	284 284	23006 23007	301 301	23107 23108	207	23572 23573	454 454	24108 24109	440 440
22011	284	11 2:008	301 301	23108 23109	1 212	11 23842	221	24110	140
22012	284	99009	301	23110	212	24001	392	24111	440
22013 22014	285 285	23010 23011	301 301	23111 23112	212 212	24002 24003	392 325	24113	440
22015	285	23012	301	23113	212	24004	325	24114 24115	440 440
22016	285	23013	301	23114	212 212	24005	825	24116	440
22017	286	23014	301 301	23115 23116	212 403	24:06 24:07	325	24117	440
22018 22019	286 286	23015 23016	301	23116	403	24007	325 325	24118 24120	440 447
22020	286	20017	301	23118	403	24009	325	24121	440
22021	286	23018	301	23119	404	24010	325	24132	440
22022	286	23019	301 301	23120	404 404	24011 24012	327 327	24124 24125	450
22023 22024	286 286	23020 23021	301	23121 23122	404	24013	327	24125 24126	442 450
22025	286	23022	301	23123	404	24014	1 327	24127	450
22026	286	23023	301	23124 23125	404	24015	327	24128	450
22027	286 286	23024 23025	301 301	23125 23126	404 404	24016 24017	327 327	24129 24130	449 449
22028 22029	286	23026	301	23127	404	24018	327	24131	449
22030	286	23027	301	23128	404	24019	327 327	24132	449
22031	287	23028 23029	301 301	23129 23130	401 404	24020 24021	327 327	. 24193 24134	449 449
22032	287	23029	Str	20100	302	1 241721	1021	41.04	149
	1 .							i-	

AMERICAN ELECTRIC COMPANY.

CAT. No.	PAGE.	CAT. No.	PAGE.	CAF. No.	PAGE.	CAT. No.	PAGE,	CAT. No.	Page.
	419	24260	477	24358	482	24458	401	25108	118
24135 24136	450	24261	477	24359	482 482	24459	401 407	25109 25110	118 118
24137 24138	449 449	24262 24263	477 477	24360 24361	482 482	24460 24461	407	25111	118
24139	449	24264	477	24362	482	24462	407 407	25112 25113	118
24140 24141	449 449	24265 24266	477 478	24363 24364	482 482	24463 24464	407	25114	112 112
24142	449	24267	478	24365	482 482	24465 24467	424 424	25115 25116	112 112
24143 24144	449 449	24:68 24:269	478 478	24:366 24:367	482	24468	424.	25117	112
24146	439	24270	478 478	24368	482 479	24477 24478	70 7 9	25118 25119	112 112
24147 24148	439 439	24271 24272	478	243681/2 24369	479	24479	70	25120	112
24149	439 475	24273 24274	478 478	24370 24371	479 479	24487 24488	61 100	25121 25122	120 120
24150 24151	475	24,275	478	24372	479	24489	100	25123	120
24152 24153	475 475	24276 24277	478 478	24373 24374	479 479	24490 24491	100	25124 25125	120 120
24154	475	24278 24279	478	24375	479	24192	100	25126	120
24155 24156	475 475	24279 24280	478 478	24376 24377	479 479	25000 25001	132 466	251 27 251 28	120 120
24157	475	24281	478	24378	479	25002 25603	466 466	25129 25130	120 120
24158 24159	475 475	24:282 24:283	478 478	24379 24380	479 179	25004	166 166	25131	120
24160	475	21284 91285	478	24381 24382	179 479	25005 25006	466 166	25132 25133	120 120
24161 24162	475 475	24286	478 478	24383	480	25007	166	25134	120
?4163	475 475	24287 24288	478	24384 24385	480 180	25008 25009	466 466	25135 25136	120
24164 24165	475	24:289	478 478	24386 24387	480	25010	466	25137	121 121 121
24166 21167	475 475	24290 24291	478 478	24387 24388	480 480	25011 25025	466 490	25138 25139	121
24168	475	24292	478	24:389	480	25026	490	25140	121
24169 24170	475 475	24293 24294	478 478	2439 0 24391	450 450	25027 25028	490 490	%141 25142	121 121
24171	475	24295	478	24.392	480	25029	490	25143	121
24172 24173	475 475	24296 24297	478 478	24393 24394	480 480	25030 25031	490 490	25144 25145	12t 121
24174	475	24:298	481	24395	480	25032	490	25146	121
24175 24200	475 475	24299 24300	481 481	24396 24397	480 480	25033 25034	490 490	25147 25148	121 121
24201	175	24301	481	24398	480 480	25035	490	25149	121
24±02 24203	475 475	24302 24303	481 481	24399 24400	480	25036 25037	490 490	25150 25151	121 121
24204 24205	475 475	24304 24305	481 481	24401 24402	480 480	25038 25039	490 490	25152 25153	121 121 121
24.406	475	24306	481	24403	480	25040	490	25154	121
24207 24208	475 475	24307 24308	481 481	24404 24405	480 480	25041 25042	490 490	25155 25156	121 121
24209	475	24309	481	24406	480	25043	490	25157	121
24210 24212	475 476	24310 24311	481 481	24407 24408	480 480	25044 25045	490 490	25158 25159	121 121
24214 24215	476	24312 24313	481 481	24109	480	25046 25047	490	25160	121 121
24216	476 476	24314	481	24410 24411	480 480	25048	490 490	25161 25162	l 96
24217 24218	476 476	24315 24316	481 481	24412 24413	480 479	25049	490 490	25163	96 96
24219	476	94317	481	24414	479	25050 25051	490	25164 25165	96
24220 24221	476 476	24318 24319	481 481	24415 24416	479 479	25052 25053	490 490	25166 25167	96 96
24222	476	24320	481	24417	478	25054	490	25168	96 96
24223 24224	476 476	24321 24322	481 481	24418 24419	479 479	25055 25056	490 490	25169 25170	96 96
24225 24226	476 476	24323 24324	481	24420 24421	479 479	25057 25058	400 490	25171	96
24227	476	24325	481	24422	479	25059	490	25172 25173	96 96
24228 24229	476 476	24326 24327	481 481	24423 24424	479 479	25060 25061	130 130	25174 25175	1 96
24230 24231	476	24328	481	24425	479	25062	130	25176	96 96
24232	476 476	24329 24330	482 482	24426 24427	479 479	25063 25064	130 130	25177 25178	96 96
24233 24234	477 477	24331 24332	482 482	24428 24429	479 479	25065 25066	130	25179	96
24235	477	24333	482 482 482	24430	479	25067	130 67	. 25180 25181	119 119
24235 24236 24237	477 477	24334 24335	482 482	24431 24432	479 479	25068 25069	67 67	25182 25183	119
24238	47.7	24336	482	24433	457	25070	67	25184	119 119
24239 24240	477 477	24337 24338	482 482	24434 24438	457 408	25071 25072	31 31	25185 25186	119
24241	477	24339	482	24439	408	25073	453	25187	119 119
24242 24243	477 477	24340 24341	482 482	24441 24442	408 408	25074 25075	453 489	25188 25189	119 119
24244 24245	477 477	24:342	482	24443	468	25076	269	25190	119
24246	477	24343 24344	482 482	24144 24415	408 408	25088 25089	380 380	25191 25192	119 119
24247 24248	477 477	24345 24346	482 482	24446	424	25090	380	25193	119
24249	477	24347	482	244461/2 24447	458 458	250J1 25092	380 380	25194 25195	119 119
24250 24251	477 477	24348 24349	482	24448 24449	458	25093	380	25196	119
24252	477	24350	482	24450	458 458	25094 25100	434 104	25197 25198	119 119
24253 24254	477 477.	24351 24352	482 482	24451 24452	458 458	25101	104	25199	119
24255 24256	477 477	24353	482	24453	459	25102 25103	118 118	25200 25201	119 119
24257	477	24354 24355	482 482	24454 24455	459 459	25104 25105	118 118	25202 25203	119
24258 24259	477	24356	482	24456	459	25106	118	25204	119 122
29200	477	24357	482	24457	401	25107	118	25205	122 122
							. 1	i	

				· · · · · · · · · · · · · · · · · · ·					
CAT. No.	PAGE.	CAT. NO.	PAGE.	CAT. No	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
25206 25207	122 122	25311 25312	85 138	25409	60 60	25508 25509	229 229	25607 25603	490 495
25208	199 1	25313	138	25410 25411	60	25510	223	25600	495
25209 25210	122 122	25814 25815	138 138	25412 25413	69	25511 25512	229 229	25610 25611	495 495
25211 25212	122 122	25316 25317	138 138	25414 25415	199	25513	229 229	25612 25613	495 495
25213	122	25318	138	25416	co.	95515	229	25614	495
25214 25215	122 122	25319 25320	138 138	25417 25418	89 I	i 25517	229 229	25615 25616	495 495
25216 25217	122 122	25321 25322	138 138	25419 25420	60 60	25518 25520	229 229	25617 25618	495 495
25218 25219	122 122	25323 25324	151	25421 25422	69 69	25521 25522	229 229	25619 25620	495 495 495
25220	122	25325	151 157	25423	69	25523	229	25621	495
25221 25223	122 122	25326 25327	163 163	25424 25425	69 69	25524 25525	229 229	25622 25623	495 495
25228 25224	122 122	25328 25329	32 32	25426 25427	69 69	25526 25527	229 229	25624 25625	496 496
25225 25226	122 122	25330 25331	32 32	25428 25429	69 429	25528 25529	229 229	25626 25627	496 496
25227	122	25332	32	25430	429	25530	229	25628	496
25228 25229	122- 122	25333 25334	32 32	25431 25432	429 429	25531 25532	230	25629 25630	496 496
25230 25231	122 122	25335 25336	32 32	25433 25434	4:29 4:29	25583 25534	230 230	25631 25632	496 496
25232 25233	122 122	25337 25338	32 32	25435 25436	425 429	25535 25586	230 230	25633 26634	496 496
25234 25235	122	25339	32	25437	429	25537	330	25635	496
25236	122 122	25340 25341	32 32 32	25438 25439	429 429	25538 22539	230	25636 25637	496 496
25237 25238	122 122	25342 25343	32 32	25440 25441	430 430	25540 25541	230 230	25638 25639	196 496
25239 25240	122 122	25344 25345	32 32	25442 24443	430 430	25542 95543	230 230	25640 25641	496 496
25241 25242	122 122	25346 25347 25348	3:2	25444 25445	130 430	25544 24545	230 230	25642 25643	496 496
25243	122	25348	32 32	25446	430	25546	230	25644	496
2524 1 252 4 5	122 122	25349 25350	32 32	25447 25448	430 430	25547 25548	231 231	25645 25646	496 496
25246 25247 25248	122 122	25351 25352	33 33	25449 25450	430 430	25549 25550	231 231	26647 25648	497 497
25148 25249	122 122 122	25358 25354	33 33	25451 25452	430 430	25551 25552	231 231	25649 2565 0	497 497
25250 25251	122	25365	38	25453	430	25553	231	25651 25652	497 197
25252	126	25356 25357	33 33	25454 25456	430 99	25554 25555	231 231	25653	497
25253 25254	126 126	25358 25359	33 33	25457 25458	99 99	25556 26557	231 231	25654 25655	497 497
25255 25256	126 126	25360 25361	33 33	25439 25460	99 99	25558 25550	231 282	25656 25657	497 497
25257 25258	126 126	25362 25363	33 33	25461 25462	-89 99	25560 25561	232 232	25658 25659	497 497
25259	126	25364	33	25463	99	25562	232	25660 25661	497
25260 25261	126 126	25865 25366	33 33	25464 25465	99	25563 26564	231 231	25662	497
25262 25263	126 126	25367 25368	34 34	25466 25467	99 99	25565 25566	231 231	25663 25664	497 497
25264 25265	126 126	25369 23370	34 34	25468 25469	78 329	25567 25568	231 231	25665 25606	497 497
25266 25267	126 126	25371 25372	34 34	25470 25471	320 320	25569 25570	231	25667 25688	497 497
25268	126	25373	34	25473	320	25571	147	25669	497
25269 25270	126 126	25374 25375	34 34	25473 25474	319 319	25572 25573	239 149	25670 25671	497 497
25273 25274 25275	126 126	25376 25377	34 34	25475 25476	319 319	25574 25575	149 149	25672 25673	497 497
25275 25276	126 126	25378 25379	34	25477 25478	319 319	25576 25577	149 149	25674 25675	502 502
25277 25278	126 126	25380 25381	34 84	25479 25480	319 319	25578 25579	149 149	25676 25677	502 502
25279 25280	126	25382	34	25481 25482	319 319	25580 25581	150	25678 25679	503 503
25281	126 126	25383 25384	34 34	25483	348	25582	150 150	25680	503.
25282 25283	126 126	25385 25386	34 31	25484 25485	225 225	25583 25584	150 150	25681 25682	503 ['] 503
25284 25285	126 126	25387 25388	34 34	25486 25487	225 225	25585 25586	150 150	25683 25684	503 503
25286 25292	126	25389 95390	34 34	25488 25489	879 379	25587 25588	150 318	25685 25686	503 501
25293	101	25391	34	25490	289 289	25589	317	25087	501
2529 4 25295	96 96	25392 25393	34 34	25491 25492	289	25590 25591	317 259	25688 26000	501 102
25296 25297	96 96	25394 25395	34 34	25493 25494	289 289	25592 25593	259 259	26001 26002	102 102
25298 25299	83 83	25396 25397	34 32	25495 25496	289 289	25594 25595	378 394	26003 26004	102 102
25300	85	25398	32	25497 25498	289 929	25596 25697	401	26005 26006	102
25301 25802	78 38	25399 25499	30 30	25 199	229	25598	380	26007	102 102
25303 25304	85 80	25401 25402	30 -100	25500 25501	229 229	25599 256 00	444	26008 26009	102 102
25305 25306	85 85	25463 25404	100	25502 25503	229 229 229	25601 25602	414	26509 26600	444 444
25307 25308	85 85	25405 25406	31	25504 25505	229 229	25603 25604	457 457	26601 26602	444 444 444
25309	85	25407 25408	69	25506 25507	220 220	25605 25606	490 190	28230 29330	75 36
25310.	85	25 108	69	208907	U VI	20000	130	493.90	36

						1			
Cat. No.	PAGE.	CAT, No.	PAGE.	Cat. No.	PAGE.	CAT. NO	PAGE.	Cat. No.	PAGE.
30314	37	32167	322	32480	335	61243	73	65189	151
30504	338	32172	332	32481	355	61:45	73 75	05493	151
30505	338	32173	332	32486	337	61247	75	65197	151
2800,74.66	368	32174	332	32488	337	61265	74 74 74 73 73	65201 65205	151 151
30507	338	32175	332	32400	3.47	61239	1 14	6.000	151
30508	338	32178	332	32492	337	61365	74	65200 65213	151
30646	340	32190	332	22494	337	61495	13	65217	151
30647	340	32192	332	32496	336	61497	44	65221	151
30648	340	32194	332	32497	336 376	61535 61565	73	65225	151
30649	341	32196	332	32498	336	61569	73	65229	tai
30650	341	32198	332	324:19 32502	329	61587	1 43 1	65339	151
30651	341	32240	331	32302 32300	330	61935	74	65233 65237	151
30681	342	32241 32243	333 331	32591	330	62135	76	65241	151
30683 30911	342 337	32244	333	32592	339	6:165	76	65245	151
30912	337-338	32:45	333	32593	330	62199	1 76 [66:23	86
30913	337	32246	335	32598	331	62235	74 73 75	66225	l 86
30914	337	32:47	333	32640	339	62569	75	66995	86
80015	337	32248	333	32641	330	62587	75	66237	86
30316	337	32249	332	32642	339	62835	7.3	66237 66271	88
30917	337	32250	3.31	32643	340	62945	1 75	i 66273	88
30920	338	32251	333	32644	340	62365	. 75	66281	88
30981	340	32252	331	32645	340	63756	200	66285	88
30983	340	32253	333	32690	331	63757	200	66297	87
30984	340	32254	333	32692	331	63758	200	66299	87
30.86	340	32355	333	32694	331	637.59	200	66307	88 88 87 87 87 76 76
30987	340	32956	333	32696	331	63763	200	66327	76
30989	340	32257	333	32698	331	63764	200	66329	76
32002	329	32258	233	32920	328	63766	199 200	66331 66333	40
32011	329	32259	332	33132	332	64100	200	00333.	76 76 76 76
32046	333	32260	331	33133 33134	332 332	64110 61111	200	66335 6633 7	70
320461/2	335	32265 32266	331 331	32136	332	64112	200	66339	76
32048	333	32267	331	33138	332	64113	200	66341	76
32072 32072½	. 334	32273	331	33139	332	65005	15	6736L	148
32073	335 335	32274	331	33140	332	65096	15	67363	148
32074	334	32390	3.14	33141	332	65097	15	67365	148
32075	333	323.0	334	33142	330	65098	16	67367	148
32075	335	32392	334	33143	332	65099	16	67369	148
32079	335	32303	334	33144	332	65100	15	6737t	148
32090	330	32394	334	33145	333	65102	1.5	67419	15
32091	330	82:05	334	50965	199	65103	16	67420	15
32092	330	32396	334	50966	199	65104	16	67421	15
32093	330	32397	334	50967	199	65120	15-	67422	15
32098	332	32398	334	50970	200	65122	15	68020	75 94 85
32132	333	32390	334	50971	260	65161	143	69171	94
32133	333	32401	334	50072	199	65163 65165	148 148	69323 69324	85 86
32134	333	32402	334	50973	199 200			69364	85
32136	333	32403	334	50974 50978	200 88	65167 65160	148 148	69368	88
32137	333	32404 32405	342 342	50078	88	65171	143	10369	88
32138 32139	334	32405 32406	342	57568	15	65173	148	69370	94
32139 32140	334	32406 32407	342	60207	16	65175	148	69373	86
32140 32141	334 334	32408	342	60666	87	65177	148	69376	88
32142	234	32400	342	61110	61	65179	148	69377	88
32165	332	32478	335	61119	61	65181	148	35571	1
32166	332	32479	335	61235	75	65183	149	l	[
02.100		1			1		≀		I

Special Index to Numbers of W. E. Fan Motors.

CAT. No.	PAGE.	. Cat. No.	PAGE.	CAT. No	PAGE.	CAT. No.	PAGE.	Cat. No.	PAGE.
A 4	359	AAA 15	359	CC 70	364	F 22 F 23	363	G 45	366
A 5 A 6	359 359	AAA 16 AAA 33	363	CC 73 CCC 86	364 361	F 23 F 34	863	(2-48 (1-83	366 366
A 10	360	C 34 C 66	361	CCC 68 CCC 71	364 364	F 54 F 55	364	G 85 GG 41	366
A 11 A 12	360 360	C 69	364 364	CCC 74	364	F 56	364 364	GG 44	366 366
A. 24 A. 25	363 363	C 72 C 75	364 364	F I	359 359	F 57 F 58	364 364	GG 46 GG 49	366 366
A. 26	363	C 76	364	F 3	359	F 59	364	GG 84	366
A 27 A 28	363 363	C 77 C 78	364 364	F 7	360 360	F 60 F 61	364 364	GG 86 M 37	366 362
A 29	363	C 79	361	F 9	360	F 62	364	MM 38	362
A 30 A 31	363 363	C 80 C 81	364 364	F 17 F 18	363	F 63 F 64	364 364	MMM 39 T 50	362 367
AA 13 AA 14	359 360	Cl 82 CC 35	-364 361	F 19 F 20	863 463	F 65 G 40	364 366	T 51 T 52	367 367 867
AA 32	363	CC 67	361	F 21	363	G 43	366	T 53	867

Index to Headings.

PAGE.	1	PAGE
494 to 504	Motors	358 to 37
155 to 198	Shades	207 to 23
321 to 357	Sockets and Receptacles	83 to 10
417 to 465	Station and Workmen's Supplies	407 to 41
60 to 82	Station, Testing and Measuring Instruments.	240 to 27
308 to 320	Sunbeam Incandescent Lamps	295 to 29
274 to 294	Switches	9 to 5
103 to 154	Tools	373 to 40
199.to 206	Western Electric Fan Motors	358 to 36
299 to 307	Wires, Cords and Cables	466 to 49
	PAGE. 494 to 504 155 to 198 321 to 357 417 to 465 60 to 82 308 to 320 274 to 294 103 to 154 199 to 206 299 to 307	494 to 504 Motors 155 to 198 Shades 321 to 357 Sockets and Receptacles 417 to 465 Station and Workmen's Supplies 60 to 82 Station, Testing and Measuring Instruments 308 to 320 Sunbeam Incandescent Lamps 274 to 294 Switches 103 to 154 Tools 199 to 206 Western Electric Fan Motors

Index to Materials.

~		١.
	PAGE,	A
Accessories for Switches	24	
Aeme Portable Testing Set	270	i
Acme Shade Holder	106	
Acorn Can	290	
Acorn Cap	257	Į.
Adapters with Fings and Cords, Lain	7 231	١.
Adjustable House Brackets	462	A
Adjustable Lamp Hanger, Improved.	179	
Adjustable Malleable Iron Handles .	395	į.
Adjustable Portable and Bracket	280	
Adjustable Rhoestats	133	l A
Adjustable Transformers	269	A
Adjusters, Cord.	104, 105	łÃ
Aleohol Blow Lamp:	405	Â
Alcohol blow Lamp	403	ΙÂ
Alcohol Soldering Torch		
All China Junction Boxes and Motor	. ur-	A
onts, P. & S	372	Λ
onts, P. & S	383	i
Allen Soldering Stick	401	ΙA
Allen Soldering Stick	276	A
Alternating Current Ammeters 25	8 to 265	l A
Alternating Current Amperemeters		ΙÃ
Alternating Current Fan Motors		ΙÃ
Alternating Current Instruments 25	7 to 265	ΙÄ
Afternating Carrent Institutents	371	ΙÂ
Alternating Current Power Motor Alternating Current Voltmeters	371	
Alternating Current Volumeters	257, 260	Ą
Alternating Current Wattmeters	263, 265	A
Alternating Power Motors, Single Ph	ase, 503	A
Aluminum Half Shape Shade	234	Λ
Aluminum Lined Reflectors	220	l A
Always Level" Suspension Street Ho	ood.	iΛ
Cutter's	. 235	A
Cutter's	356	i A
American Hoston	316	A
American Heaters	100	l â
American Standard wire Gauges		Â
American Universal Enamel Field R	neo-	
stats	.127, 128	Λ
Amiden's Patent Corner Bit Brace	396	Į Ą
Ammeters, 155, 240, 244 to 247, 251 to	253,	Ι Λ
258, 271, 496,		A
Are	156	íΛ
Portable	271	A
Oncen Wirt		
Auran direction and annual		

Ammeters, Railway		25
Standard		24
Station	245 to	24
Western-Electric		24
Weston	944 to	9.
Whitney		25
Amperemeters2	59 264	26
Bristel Recording	, 201,	-25
Duncan Recording	264	
Shallenberger	,	26
Anchor Ceiling Rosette		Ē
Anchor Cutonts		ĕ
Anchor Finsh Plates		
Anchor Sockets		
Anchor Switchblock		. 2
Anghan Switchman	-26	2
Anchor Switches	con for	-
Iron Armored Conduit	'esa tor	34
Angle K. W. Shade Holder Recept	nala w	9
Ammiciator Wire	acie	49
Arc Ammeter		15
Are Circuit Meters		-76
Are Cutout Boards		16
Are Cinoni Boards	tru to	
Are Cutonts		18
Are Hanging Boards, China		16
Are Insulator, Cutter		18
Are institutor, Cutter	too to	
Arc Lamp Carbons	. 160 10	43
Are Lamp Corn, Galvanized	100 10	17
Are Lamp Globes	.111 10	18
Are Lamp Hangers	00, 104,	16
Are Lamp Hooks	101 to	19
Arc Lamps	, rar to	16
Are Light Line Switches		60
Are Light Transformers		15
Are Switchboard		15
Are Switchboard Fittings	APP 400	
Arc Supplies	.100 10	41
Armalac		
Arms, Cross	, 183	18
Arms, Brace	450	
Arms, Break		10

PAG	GΕ.
Arresters, Lightning 136 to 138, 160,	179
Arresters, Spark	175
Arresters, Static	179
Asbestos	412
Atmospheric Heaters	317
Attachment, Kerosene Lamp	291
Attachment, Plug and Recentacle for	
Brass Armored Conduit	353
Attachment Physt	200
Attachments for Krenger Theater Lamps	192
Attachments, Gas	107
Angurs, Vanghan's Patent	374
Automatic Boring Tools	395
Automatic Boring Touls. Automatic Circuit Controlling Switch	161
Antomatic Magnetic Circuit Breakers	
Antomatje Pressure Controller	58
Antomatic Pressure Controller	1:30
Antomatic Pulicys, Fletcher	185
Antomatic Rheostats, Leonard Universal	
Automatic Switch, C. S., Flush 120,	121
Automatic Switch, C. S., Flush	22
Automatic Switches, for Electric Motors.	
	135
whing Insulator Tube	443
txes	388
В	
-	
3. & T. White Purcelain Tubes.	446
1 12 Brooket Cutente	289
3. E. Rosettes.	71
3. E. Rosettes. 3. F. Theater Dimmers. 133,	136
8. W. H. Tane	107
Saby Knite Switches	34
Sacks, Bracket	289
	399
Bags, Carbon	175
Bags, Carbon. Bairstow-Fanning Rheostats133 to	136
Bail, Cluster Ball Cord Adjuster	288
Sall Cord Adjuster	[04
	219
	283
Banner Core " Holsting Rope, Cutter's.	450

PAGE.	PAGE.	PAGE
Bar or Peanut Cord Adjuster 104	Brush-Swan Attachment Plugs 100	China Floor Tubes 444
	Brush-Swan Socket	China Hanging Boards162, 163
	Brushes, Carbon	China Hanging Boards 162, 163 China Insulating Joints, P. & S 111
Bares	Brusiles, Carbon 140 Brusiles, Dynamo 139 to 140 Brusiles, W. E. Non-sparking 141, 142 Brusiles, W. E. Non-sparking 141, 142 Bryant Bug Cutouts 61 Bryant Chandelier Switch 25	China Insulator for High Voltages 494
Patters Calle Hard Rubber 410	Brushes W F Non-snarking 141, 142	China Sockets, P. & S. China Switches, P. & S. China Switche, Ratchet, Double Pole China Switches, Faiste China Switches, Faiste China Wall Socket Receptacles, 50
Dattern For Motore 365	Breant Pug Cutouts 61	China Switches: P. & S
Dattery Fall Motors	Drivent Chandelier Switch 95	China Switch Ratchet Double Pole 10
Battery Lamps	Dryant Claudenet Switch	China Switches Paieta
Battle Lautern	Divant-Cleveland Art Culouts	China Wall Socket Perentagles 05
Battle Lautern 201 Bedroom Fixtures 285	Bryant-Cleveland Arc Cutouts	Olina William Tubes
Bell Break Arm, Fletcher S 460	Bryant-Edison Main and Branch Blocks,	
Bell Hanger and Cut-off Switch Combined 180		Chiseis 398
Bell Hanger and Cut-off Switch Combined 180	Bryant High Tension Service Switch	Circuit Breakers
Bell Hanger's Gimlet 394	Bryant K. W. Receptacle 96	Circuit Boards
Belt, Tool	Bryant Sockets	Clisels 380 Circuit Breakers 55 to 59, 433 Circuit Boards 69, 70, 79, 81, 83 Circular Loon Conduit 355 Circuit Moreors Are
Daud Flama Lamps 301	Bryant Paiste Switch, Flush	Circuit Motors, Arc
Regimen Switch Connections 54	Bryant Porcelain Tablet Board 70	Circuit Motors, Arc
Bergman Switch Connections.	Bryant K. W. Receptacle	. Weston 270
Dillord Shades or Reflectors 995 933	Present Recette and Cleat Combined 66	Clamp Connections 159
Die Distance Company 206	Bryant Single Pole Switch	Clamp Connectors 146
Bit Braces, Corner	Dayant Single Tole Switch	Claum Perfection Deck or Music Ruck 100
BHS	Dryant Testing Dase	Clamps 149 - 977 979 905 996 900 900 455
Block, I. T. E. Shunt, with Protected Fuse 56	Bryant waterproof Marine Switch 199	Charle Wine
Blocks, Pulley	Bryant Testing Base 96 Bryant Waterproof Marine Switch 199 Buckles, Turn 449, 450	Clark Wife415, 470
Rlocks, Pulley		Weston
Blow Torches. 403 to 406 Blowers and Exhausters, Direct Connect-	Bug Cutonts	Cleats
Blowers and Exhausters, Direct Connect-	Building Switch, Western Electric 158	Clears of Rosettes, Ceiling Cutout. 63 to 68, 70
ed Electric 369	Bulb Shades216 to 218	Cleveland Are Cutouts 158
Board, Richmoud Panel 495	Bung Hole Lamps	Clifton Tape 407
Boards, Circuit69, 70, 79, 81, 82	Bus Bar Clamps 148	Climax Wire 482
Blowers and Exhausters, Direct Commerce Section	Burg Cutionts	Climbers
Boards, Hanging	Bus Bar Stands 153	Clips, Crosby
Boards, Multiple Cutout 69, 70, 79, 81, 82	Bushings, Brass	Clips for Brass Armored Conduit 348
Boiler, Farina	Búshings for Floors 442 444	Clock Switch, Electric
Bolt and Lock, Tile 453	Bushings, Porcelain 414	Clock Switch, Electric 161 Clock, Switchboard 147
Rolt Cutter Insulated Suspension 450	Rushings Socket to the	Closet and Door Switches 31
Rolfe Age	Bushings Brass 200 Bushings for Floors 442, 444 Bushings Porcelain 444 444 Bushings Porcelain 103, 104 Bushings Socket 103, 104 But Reamer for Iron Armored Conduit 343	Cloth, Crocus
Bolt, Cutter Insulated Suspension. 450 Bolts. 455 Bolts, Switchboard 154	Buttons, Ceiling	
Danks for Motor Ponding 007	Buttons, Cening	Cluster Figure Complete 990
Books for Meter Reading	_	Cluster Fixture Complete 288 Cluster Fixture Complete 280 Cluster Reflectors, Frink's 230 231 Cluster Shades 222 231 Cluster Shades 232 233 Cluster Shades 233 234 Cluster Shades 234 Cluster Shades 235 Cluster S
Boring Tools 395 Bottom Wire Sockets 92	C	Chaster Reliectors, Fillia S
Bottom wire sockets 92	C C Thurs David to The st. Conference of the co.	Coe Wrenches
Boulevard Lamp Post. 198 Boulevard Street Hood, Cutter. 236 Bowl Shades, Silver Etched. 220	C. S. Flush Double Push Switches21 to 23	Coe wrenches
Boulevard Street Hood, Cutter 236	C. S. Flush Switch Accessories 24	Coiled Filament Lamp. 295, 29 Coil Heater, Immersion. 31
Bowl Shades, Silver Etched 220	Cable Glass Insulator 422	Coll Heater, Immersion 31
Bowling Alley Snades 225	C. S. Filish and Accessines 2.2 Cable Glass Insulator. 476, 478 to 480, 489, 421 Calipers, Micrometer 476, 478 to 480, 489, 421 Calipers, Micrometer 520, 478 to 480, 489, 421 Calipers, Micrometer 620, 478 to 480, 489, 421 Calipers Micrometer 620, 478 to 480, 480, 480, 480, 480, 480, 480, 480,	Cold Chisel 398
Box Cluster	Calipers, Micrometer 400	Colored Lamps 300
Boxes for Iron Armored Conduit 329 to 342	Candelabra Lamp Receptacles 306	Colored Shades 21 Columbian Hood 23
Boxes for Plain and Brass Armored con-	Candle Flame Lamps 301	Columbian Hood 23
	Candle Lamps 301	Columbian Lamp Post 197
Boxes, High Potential Fuse Cutout 502	Candle of Bung Hole Lamps 297 Canopies 291 to 294	Column Fan Motors. 36: Combination Bracket 460 Combination Bridge, Rheostat and Gal-
Boxes, Marine Junction 199 Boxes, Wall 24, 102	Canopies	Combination Bracket 460
Boxes, Wall	Cans. Oil	Combination Bridge, Rheostat and Gal-
Brace Arm. Cutter	Cant Hooks	vanometer 269
Braces 396	Cans, Oil 414 to 416 Cant Hooks 373, 389 Caoutchouc Wire, Simplex 481, 482	Combination Cluster Reflector, Frink's., 23
Braces. 396 Braces, Cross Arm 454	Can Acorn 290	vanometer. 26 Combination Cluster Reflector, Frink's. 23 Combination Conduit. 23 Combination Coupling 33 Combination Cross Arm, Cutter's. 18 Combination Fixture Cutout and Outlet
Bracket Almond Flexible 976	Cap, Acorn	Combination Counting 33
Bracket and Portable, Adjustable 280 Bracket and Portable Combined 281	Car Circuit Breakers 58	Combination Cross Arm Cuttor's - 18
Bracket and Portable Combined 981	Car Heaters, Electric 317	Combination Fixture Cutout and Outlet
Bracket Backs 989	Carbon Bags	Insulator 43: Combination Gas and Electric Branch Circuit Box and Cutout for Iron Ar- mored Conduit 336 to 33
Bracket Backs	Carbon Pruchoe	Combination Cas and Floatric Prench
Bracket Cutouts. 289 Brackets, Electric 275 to 279	Carbone 160 to 154	Circuit Poy and Cutout for Iron An
Bruckete Floetrie 975 to 970	Cardboard Chudee Dat 907	moned Conduit
Bracket, Fan Motors	Cango Lantonn with Cuand	mored Conduit
Bracket, Fletcher lusulating	Cargo Lantern With Guard	Combination Gas and Electric side Out-
Brocket Possitales Charmen 100	Carpenter Enamer Knoestats	let Boxes for Iron Armored Conduit 34
Bracket Receptacles, Chapman 102 Bracket Sockets 83, 96 Bracket Tubes 274	Cartwright raper waterproof Lamp	Combination Handles 39 Combination Hot Blast Blow Torch 40
Dideket Dockets	Shade 224	Combination Hot Blast Blow Torch 40
Dracket Tubes	Carrying Cases, Wooden 258	Commutation Hot Blast Furnace 400
Brackets 154, 274 to 279, 437, 450 to 452, 458	Carbon Bags 175 Carbon Brushes 140 Carbons 169 to 174 Cardboard Shades 224, 25 Cargo Lantern with Guard 224, 25 Carpenter Enmel Rhoestats 118 to 126 Cartvinght Taper Waterprof Lamp 28 Cartying Cases, Wooden 28 Cartying Hooks 373, 389 Cases for Instruments, Leather 345, 388 Cast Iron Plugs for Iron Armord Conduit 324, 328	Combination Lag Screw and Nut Wrench 38
to 465.	cases for Histruments, Leather 345, 358	Compination Pay-out Reel376, 39
Brackets, Incandescent Street 450	Cast Iron Plugs for Iron Armored Con-	Combination Reamer 354
Brady Mast Arms	duit	Combination Hot Blast Furnace, Combination Hot Blast Furnace, Combination Lag Screw and Nut Wrench 38 Combination Psy-out Reel 376, 39 Combination Reamer 35 Combination Rosettes and Cutouts 69, 65,
Braided Office Wire 491	Cast Iron Pockets for Anchor Switches 27	66, 68, 70 Combination Shade and Holder, Marten. 220
Branch Blocks	Cedar Poles, Round	Compination Shade and Holder, Marten. 220
Armored Conduit	Cening Brackets, Maneable Iron 458	Compination Shade, Cutter 23
Armored Conduit	Cening Buttons	Compination Soldering Torch, Victor 40:
and Programmed Conduits and	Cening Ciusters	Computation Windiass, Cutter 18
and Brass Armored Conduit349 to 352	Cening Combination Gas and Electric	Combination Stade, Cutter. 23 Combination Soldering Torch, Victor 40 Combination Windlass, Cutter. 18 Combined Exhaust Fans and Lundell Mo
Brace and Philis Covered Co. 3.11 P.	Ontiets	tors
Brass and Flain Covered Conduit, Branch	Ceiling Fan Motors	Combined Instruments and Shunts 24
Useda Assurable Boxes349 to 352	Ceiling Brackets, Malleable Iron 4-86	tors
Brass Armored Conduit 339, 344 to 348, 352	Ceiling Fixtures, Ornamental 282	Bernard's
Brass Armored Conduit Couplings 348	Ceiling Globes and Balls 282	Combined Portable and Bracket 28
Brass Armored Conduit Elbows 345 to 347	Ceiling Hook, Cutter 181	"Come-along" Eccentric
and Brass Armored Conduit. 339 to 352 Branch Cutouts	Ceiling Hook, Cutter. 287 Ceiling Hook, Cutter. 181 Ceiling Onlete Boxes for Iron Armored Ceiling Content Box 287 Ceiling Content Box 287 Ceiling Content Control Cont	Bernard's 38 Combined Portable and Bracket 28 "Come-along" Eccentric 37 Common Reel 39
Brass Bushings. 290 Brass Covered T's. 345	Conduit	
Brass Covered T's. 345 Brass Engineers' Filler. 415	Ceiling Rosettes, or Cutouts 63 to 68 70	Commutator Compound 40
Brass Eugineers' Filler 415	Cells, Hard Rubber Battery. 410	Competition Tape
Brass Fittings	Celluloid_Shades 225	Composition Bushings 103 100
Brass Lineman's Torch 406	Century Tape	Compound Chatterton's 46
Brass Fittings 200 Brass Lineman's Toreh 406 Brass Oil Caus 445 Brass Wire Cleats 440	Century Tape	Commutator Switch 2 Commutator Compound 40 Competition Tape 40 Compound 103 Compound Chatterton's 40 Compound Commutator 40 Compound Commutator 37 Compound Commutator 37 Compound Commutator 37
Brass Wire Cleats	Champion Screw Drivers 393 Chandelier Cutout, Anchor Covered 68 Chandelier Frink's Supported Reflect	Compound Eccentric Klein's '976
Braziers, Hot Blast Blow Torch 403	Chandelier Cutout, Anchor Covered as	Compound Splicing
Break Arms 458, 460 Break Knobs, Glass 423, 424 Brewers Lamp Guard 201 Break Dath 201		Compound, Splicing, 40 Comstock Pipe Cutters, 34 Concealed Celling Rosettes and Cutonts 63, 64, 66, to 68, 70
Break Knobs, Glass 424	ing out	Concealed Colling Recetter and Cutoute
Brewers Lamp Guard 901	ing 231 Chandelier Loops, Iron 107	ea ca co to coming trosection and United the
Brick Drills	Chandelier Switch, Bryant 25	Concentric Lamp
Brick Drills	Chapin's Hood	Condenser Lamps
Bridge, Wheatstone	Chapin's Hood 237 Chapman Receptacles 102	Conducting Cords Commer 40
Bristol Recording Instruments. 259 260		Conduit and Conduit Eittings got to are
	Charts, Meler Rate	Cone Lange on the Control of the Cone Lange
Brown Duplex Brackets	Chatterton's Compound	Cone Similes
Brown Duplex Pins	Charts, Meler Rate 402 Charts, Meler Rate 267 Chatterton's Compound 507 Chicago Fuse Repair Kit 380 China Cleats 438 439 China Cross-over Tubing 444 444	One-ultre Lamp. 19 20 20 20 20 20 20 20 2
Brown Duplex Pins. 451 Brind's Regulating Socket. 99 Brigh Compar	China Cleats 400 .100	Connections Rue Rar
Brysb Copper 143	China Cross-over Tubing	Connections Clanin
	Til	

		· ·
Connectors: 148 to 151, 385, 386, 339, 449 Constant Polential Are Lamps 191 Construction Material	Cutouts, K. W. Main and Branch	Dimmers Theater
Constant Polential Are Lamps 191	Cutouts, K. W. Main and Branch 77 Main Branch 82 Main Line Fuse Blocks 80	Dimmers, Theater
Contact Circuit Brooker Moreury 57		Exhausters 36 Direct Coupled Ventilating Outfits 50 Direct Current Aumeters 240, 244 to 247, 251 to 253, 258, 271. Direct Current Aumer Meters 520 Direct Current Instruments 240 to 263,
Controllers Beads. 170 Controllers. 170 Controllers. 171 121 122 130 Controllers Switch, Automatic Circuit. 161 Converlor Bracker 170 Converlor Bracker 17	Midget 60, 65	Direct Current Animeters, 240, 244 to 247.
Controllers	Motor	251 to 253, 258, 271
Controlling Switch, Antomatic Circuit 1s1	Multiple Circuit Tablet Board 69	Direct Current Ampere Meters 25
Converler Bracket 460 Covex Shades 228, 220	New Style	200 to 201
Cooking and Heating Apparatus, Electric	P. & S	Direct Current Voltmeters 240 to 243, 248
308 to 320	Peru	to 150, 253 to 257, 271
Copper, Brush	Plug	Direct Current Wattmeters260 to 263, 26
Copper Conducting Cords. 433 Copper Conducting Cords. 493 Coppers, Soldering. 401 Copper Terminals. 114 Cord Adjusters. 104, 105	Quadrant	Direct Reading Mil Ammeters and Ammeters, Weston
Copper Terminals, Shawmit		Direct Reading Voltmeter, Weston Stan
Cord Adjusters	Rubber Covered 69 Safety Fuse Block 66 Sawer-Man 76 to 79 Seymour's Patent Branch Block 79	dard Portable241, 24
Cords Copper Conducting 433	Salver-Man 76 to 79	Disc Heaters 31
Cords, Plugs and Lamp Adapters. 257	Seymour's Patent Branch Block, 79	Disc nuceting Plug
Cored Carbous	Special 78	Distributing Boards
Cortia Adjusters 104, 105	Special 78 Special Fuse Holders 89 Square B use Rosette for Moulding Work 63, 65, 66, 68, 70	Direct Reading Voltmeter, Weston Stan dard Portable 244, 24 Disc Cord Adjuster 10 Disc Heatters 3 Disc nuceting Plug 15 Stributing Boards 81, 8 Domestic Carbons 169 to 17 Door Switch: 3 Domestic Carbons 169 to 17 Door Switch: 3 3 3 3 3 3 3 3 3
Corner Insulator	Work	Door Switch
Corner Pius	Straight	Double Conductor Anunnciator Wire 49
Corniee Brackets 460		Double Cotton Covered Magnet Wire 49
Corrugated Lamps 302, 303 Corrugated Spiral Shades 222, 223 Cotton Covered German Silver Resistance	Cutout and Outlet Insulator, Combination Fixture. 433 Cutout Board, Arc. 163 Cutout Board, Multiple. 63, 70, 79, 81, 82 Cutout Boxes, High Potential Fixe. 502 Cutter's "Always Level" Suspension Street Hood. 235 Cutter's Arc Foodstor. 235	Double Cotton Covered Magnet Wire
Cotton Covered German Silver Resistance	Cutont Board, Are	Double Petticoat Insulators
Wire	Cutout Board, Multiple63, 70, 79-81, 82 Cutout Boxes, High Potential Fuse	Double Pole Anchor Switches 2
	Cuttout Boxes, Ingh Potential Fuse 102	Double Pole Ratchet Switch 1
Cotton Sleeving 489, 470	Street Hood	Double Pole Ratchet Switch 1 Double Pole Switch Cutout 7 Double Silk Covered Magnet Wire 48
Counter, Pole, or Talley Register 393	Cutter's Arc Insulator	Double Silk Covered Magnet Wire 48
Conton Sleeving 489, 470 Counter, Pole, or Talley Register 399, Coupling, Combination 339 Compling Tool 355	Cutter's Arc Insulator. 182 Cutter's "Banner Core" Hoisting Rope. 450 Cutter's Boulevard Street Hood . 236	Double Steel Splicing Wrench
Compling Tool	Cutter's Brace Arm 183	Fletcher 18 Fletcher 18
Couplings for from Armored Conduit, 324, 328	Cutter's Ceiling Hock 181	Online Vineer steerprof Fole Pulley, Fletcher
	Cutter's Combination Cross Arm 183	Dow Cord Adjuster 10
Covered Bur Cutout 60 61	Cutter's Bonnevart Street 11000, 236 Cutter's Brace Arm. 183 Cutter's Coiling Hock 181 Cutter's Combination (Press Arm 183 Cutter's Combination Windlass, 184 Cutter's Combination Windlass, 184 Cutter's Detschable Pole Step 457 Cutter's Exception windlass, 184 Cutter's Detschable Pole Step 457 Cutter's Exception windlass, 184	Drill Bit
Covered Chandelier Cutouts, Anchor 68	Cutter's Detachable Pole Step 457	Drills Brick 39
Coupings for Tain Conduit 3-44 Cover, Rubber Seeket. 106 Covered Bug Cutout 6,6 6 Covered Chandelier Cutouts, Anchor 68 Covered Cutouts, Sawyer-Man 75, 77 Covered Motor Cutout 9,78,80,372 Covered Motor Cutout 9,78,80,372 Covered Motor Cutout 9,78,80,372	Cutter's Featherweight Spreader, 183	Drive Brackets, Malleable Iron 45
Covered Motor Cutont	Cutter's Globe Holder	Drivers, Staple
Covers for Branch Boxes for Brass Ar-	Cutter's Insulated Turubuckle 450	Duggan Cleats
mored Conduit, Metal	Cutter's Interchange ble Pulley 188	Duggan Cleats 438, 43 Dumb Bell Cord Adjuster. 10
Covers for Junction, Branch or Ontlet	Cutter's Featherweight Spreider 183 Cutter's Globe Holder 176 Cutter's Insulated Suspension Bolt 450 Cutter's Insulated Turbubekle 450 Cutter's Interchange ble Pulley 188 Cutter's Lang Serew Wrench 380 Cutter's Lamp Supporting Pulley 187 Cutter's Mark Arm Pulley 187 Cutter's Mark Arm Pulley 189 Cutter's Mark Arm Pulley 189 Cutter's Cutringer 189	Dummy Plugs 10 Duncan Recording Ammeters 264, 26 Duncan Recording Wattmeters 26
Boxes, Iron Armored Conduit 329, 343 Crackle Ball Shade 219 Crackle Rich Cut Ball Shade 219	Cutter's Mast Arm Pulley 187	Duncan Recording Wattmeters 26
Crackle Rich Cut Ball Shade 219	Cutter's Mast Arms189, 190	Duopod, Iron
Crescent Shade	Cutter's Outrigger	Duplex Brackets, Brown, 45
		Decides Electure Wind Chimchen 10
Crescent Shade	Cutter's Petite Pulley and Hood 236 Cutters Pine	Duplex Fixture Wire, Grimshaw
Croling Commutator Communical 498	Cutters, Pipe	Duplex Fixture Wire, Grimshaw
Croling Commutator Communical 498	Cutters, Pipe	Dinician Recording Wattineters, 20 Diuopod, Iron. 10 Duplex Brackets, Brown. 46 Duplex Fixture Wire, Grimshaw. 46 Duplex Glass Insulator, Pony. 41 Duplex Perfection Guards. 23 Duplex Pins, Brown. 45
Croling Commutator Communical 498	Cutters, Pipe	Duplex Fixture Wire, Grimshaw
Croling Commutator Compound 408 Cross Arm Braces 4.5 Cross Arms 183, 434 Cross Arms Cross Open Tubes China 441 4	Cutters, Pipe	Dynamo Brushes
Croling Commutator Compound 408 Cross Arm Braces 4.5 Cross Arms 183, 434 Cross Arms Cross Open Tubes China 441 4	Cutters, Pipe	Duples Fixture Wire, Grimshaw.
Croling Commutator Compound 408 Cross Arm Braces 4.5 Cross Arms 183, 434 Cross Arms Cross Open Tubes China 441 4	Cutters Fette Pauley and 1100u 323 Cutters File 343 Cutters Fole Arc Fixture 183 Cutter's Pole Lock 182 Cutters Fole Lock 182 Cutters Foreirs Wire 397 Cutter's Footbile Insulator 181 Cutter's Revolute Insulator 181 Cutter's Reveloptor Fulley 187 Cutter's Steelentroof Pulley 187 188 189	Dynamo Switch 4 Dynamos Plating 37
Collist Commutator Compound	Cutters Fette Pauley and 1100u 323 Cutters File 343 Cutters Fole Arc Fixture 183 Cutter's Pole Lock 182 Cutters Fole Lock 182 Cutters Foreirs Wire 397 Cutter's Footbile Insulator 181 Cutter's Revolute Insulator 181 Cutter's Reveloptor Fulley 187 Cutter's Steelentroof Pulley 187 188 189	Dynamo Switch 4 Dynamos, Plating 37
County C	Cutters Fette Pauley and 1100u 323 Cutters File 343 Cutters Fole Arc Fixture 183 Cutter's Pole Lock 182 Cutters Fole Lock 182 Cutters Foreirs Wire 397 Cutter's Footbile Insulator 181 Cutter's Revolute Insulator 181 Cutter's Reveloptor Fulley 187 Cutter's Steelentroof Pulley 187 188 189	Dynamo Switch 4 Dynamos, Plating 37
County C	Cutters Fette Pauley and 1100u 323 Cutters File 343 Cutters Fole Arc Fixture 183 Cutter's Pole Lock 182 Cutters Fole Lock 182 Cutters Foreirs Wire 397 Cutter's Footbile Insulator 181 Cutter's Revolute Insulator 181 Cutter's Reveloptor Fulley 187 Cutter's Steelentroof Pulley 187 188 189	Dynamo Switch 4 Dynamos, Plating 37
County C	Cutters, Pipe	Diplace Steepford Unity, Freedom 20 to 14
Crollius Commutator Compound	Cutters Fette Pauley and 1100u 323 Cutters File 343 Cutters Fole Arc Fixture 183 Cutter's Pole Lock 182 Cutters Fole Lock 182 Cutters Foreirs Wire 397 Cutter's Footbile Insulator 181 Cutter's Revolute Insulator 181 Cutter's Reveloptor Fulley 187 Cutter's Steelentroof Pulley 187 188 189	Diplace Steepford Unity, Freedom 20 to 14
Crolliss Commutator Compound	Cutters Fetter Fulley and 11000 323	Diplace Steepford unley Freeder 18 Dynamo Brushes 139 to 14 Dynamo Switch 9 to 14 Dynamos Witch 9 to 15 Dynamos Witch 9 to 15 Dynamos Plating 6 to 15 Dynamos Plating 7 to 15 Dynamos Plating 8 to 15
Crolliss Commutator Compound 498	Cutter's Fetter Fulley and 11000	Diplace Steepford unley Freeder 18 Dynamo Brushes 139 to 14 Dynamo Switch 9 to 14 Dynamos Witch 9 to 15 Dynamos Witch 9 to 15 Dynamos Plating 6 to 15 Dynamos Plating 7 to 15 Dynamos Plating 8 to 15
Crolliss Commutator Compound 498	Cutter's Fetter Fulley and 11000	Diplace Steepford Unley, Fletcher 18 bynamo Brushes 19 to 14 bynamo Switch 9 to 14 bynamos Witch 9 to 15 bynamos Witch 9 to 15 bynamos Plating 6 to 15 bynamos Plating 7 to 15 bynamos Plating 7 to 15 bynamos 18 becentific Champs, Dicke 37 to 17 bynamos 18 become Flux Bulb 40 Economic Flux Bulb 40 Economic Flux Bulb 40 Economic Husulators 43 to 15 bynamos 18 byna
Crolliss Commutator Compound 498	Cutters Fights Fulley and 11000	Diplace Storpfoot Unity, Fletcher 199 to 14
Crolliss Commutator Compound	Cutters Fights Fulley and 11000	Diplace Steep froit uney, Fretcher 139 to 14 Dynamo Switch 2 Junion Switch 2 Junion Switch 2 Junion Switch 2 Security Climbers 2 Security Climbers 2 Security Climbers 3 Security Climbers 3 Security Climbers 3 To 379, 381, 382 Eccentries 1 Security Climbers 3 To 379, 381, 382 Eccentries 1 Security Climbers 3 Security Climbers 3 Security Climbers 3 Security Climbers 4 Security Climbers
Crolliss Commutator Compound	Cutters Fights Fulley and 11000	Diplace Steep froit uney, Fretcher 139 to 14 Dynamo Switch 2 Junion Switch 2 Junion Switch 2 Junion Switch 2 Security Climbers 2 Security Climbers 2 Security Climbers 3 Security Climbers 3 Security Climbers 3 To 379, 381, 382 Eccentries 1 Security Climbers 3 To 379, 381, 382 Eccentries 1 Security Climbers 3 Security Climbers 3 Security Climbers 3 Security Climbers 4 Security Climbers
Crollus Commutator Compound 488 Cross Arm Braces 454 Cross Arm Braces 454 Cross Arms 188, 454 Cross Over Tubes, China 441 Crow Bars 576 Curp Metal Dipping 188 Curling from Ledwick Electric 310, 30 Curling from Ledwick Electric 310, 30 Curling from Ledwick Electric 310, 30 Curling from Ledwick 576 Curred Mippel Indicator 577 Curred Tubes 412 Curl and Eleched Shades 214 to 220 Cut and Electric 311 Cut and E	Conters Cetter Fulley and 1000 33 34 35 35 36 36 36 36 36 36	Diplace Steep froit uney, Fretcher 139 to 14 Dynamo Switch 2 Junion Switch 2 Junion Switch 2 Junion Switch 2 Security Climbers 2 Security Climbers 2 Security Climbers 3 Security Climbers 3 Security Climbers 3 To 379, 381, 382 Eccentries 1 Security Climbers 3 To 379, 381, 382 Eccentries 1 Security Climbers 3 Security Climbers 3 Security Climbers 3 Security Climbers 4 Security Climbers
Crollius Commutator Compound 488 Cross Arm Braces 444 Cross Arms Braces 454 Cross Arms 5183, 434 Cross Over Tubes, China 441 Crow Burs 5184 Cross Over Tubes, China 541 Crow Burs 5184 Cross Over Tubes, China 541 Cross Over Tubes, China 641 Cross Over Tubes, China 641 Cross Over Tubes 641 Current Direction Indicator 518 Current Direction Indicator 51	Cutter's Fette Fulley and 11000	Diploc Steep Front The Steep The Steep
Crollius Commutator Compound 488 Cross Arm Braces 444 Cross Arms Braces 454 Cross Arms 5183, 434 Cross Over Tubes, China 441 Crow Burs 5184 Cross Over Tubes, China 541 Crow Burs 5184 Cross Over Tubes, China 541 Cross Over Tubes, China 641 Cross Over Tubes, China 641 Cross Over Tubes 641 Current Direction Indicator 518 Current Direction Indicator 51	Cutter's Fette Fulley and 11000	Diploc Steep Front The Steep The Steep
Crolliss Commutator Compound 488 Cross Arm Braces 454 Cross Arm Braces 454 Cross Arms 183, 434 Cross Arms 583, 434 Cross Arms 583, 434 Cross Over Tubes, China 441 Crow Burs 575 China 583, 583, 583, 583, 583, 583, 583, 583,	Cutter's Fette Fulley and 11000	Diploc Steep Front The Steep The Steep
Crolliss Commutator Compound 488 Cross Arm Braces 454 Cross Arm Braces 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross over Tubes, China 441 Crow Bars 576 Curp Metal Dipping 188 Curp Metal Dipping 188 Curp Metal Dipping 574 Curved Mpiple 574 Curved Tubes 497 Curved Tubes 497 Curved Tubes 497 Curt and Etched Shades 294 Cut and Etched	Cutter's Fette Fulley and 11000	Improvision of the property of
Crollius Commutator Compound 488 Cross Arm Braces 454 Cross Arms Braces 454 Cross Arms 188, 454 Cross Arms 589, 454 Cross Arms 589, 454 Cross Over Tubes, Cluina 441 Crow Burs 589, 454 Cross Over Tubes, Cluina 589, 454 Cross Over Tubes, Cluina 589, 454 Cross Over Tubes 689, 454 Curried From Heaters, Electric 310, 319 Current Direction Indicator 512 Current Direction Indicator 512 Current Direction Indicator 512 Current Direction Indicator 514 Cut and Excite 514 Cu	Cutter's Fette Fulley and 11000	Diplama Brushes 139 to 14
Crollius Commutator Compound 488 Cross Arm Braces 444 Cross Arms Braces 454 Cross Arms 183, 434 Cross Arms 555 Current Mipple 574 Crived Tubes 575 Crived Tubes 57	Contest Cont	Dynamo Brussies 139 to 14
Crollius Commutator Compound 488 Cross Arm Braces 454 Cross Arms Braces 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross Over Tubes, Cluina 441 Crow Burs 576 Curring Iron Holius 576 Curring Iron 176 C	Cutter's Fette Fulley and 1000	Dynamo Brussies 139 to 14
Crollius Commutator Compound 488 Cross Arm Braces 454 Cross Arms Braces 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross Over Tubes, Cluina 441 Crow Burs 576 Curring Iron Holius 576 Curring Iron 176 C	Contest Cont	Improvestication of the provided in the provid
Crolliss Commutator Compound 488 Cross Arm Braces 454 Cross Arm Braces 454 Cross Arms 188, 444 Cross over Tubes, China 441 Crow Bars 546 Cup, Metal Dipping 188 Curring Iron touristics Electric 310, 188 Curring Iron Compound 574 Curred Mpipe 574 Curred Tubes 412 Curred Mpipe 574 Curred Tubes 412 Curred Mpipe 574 Curred Tubes 414 Cut and Etched Shades 214 to 220 Cut and Etched Shades 214 to 220 Cut and Etched Shades 214 to 220 Cut and Etched Shades 114 to 117 Cut and Etched Shades 214 to 220	Contest Cont	Improvestication of the provided in the provid
Crolliss Commutator Compound 488 Cross Arm Braces 454 Cross Arm Braces 454 Cross Arms 188, 444 Cross over Tubes, China 441 Crow Bars 546 Cup, Metal Dipping 188 Curring Iron touristics Electric 310, 188 Curring Iron Compound 574 Curred Mpipe 574 Curred Tubes 412 Curred Mpipe 574 Curred Tubes 412 Curred Mpipe 574 Curred Tubes 414 Cut and Etched Shades 214 to 220 Cut and Etched Shades 214 to 220 Cut and Etched Shades 214 to 220 Cut and Etched Shades 114 to 117 Cut and Etched Shades 214 to 220	Contest Cont	Diplock Strington Current 198 to 14
Crollius Commutator Compound 488 Cross Arm Braces 454 Cross Arms Braces 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross Over Tubes, Cluina 441 Crow Burs. 574 Crow Burs. 575 Curring I ron Heaters, Electric 30, 309 Current Direction Indicator 575 Curred Tubes 618 miles 574 Curved Tubes 618 miles 214 to 220 Curter-Hammer Rheostats 214 to 220 Cutler-Hammer Rheostats 114 to 117 Cut-off Switch and Bell Hanger Combined 180 Fig. 100 F	Contest Cont	Diplock Strington Current 198 to 14
Crollius Commutator Compound 488 Cross Arm Braces 454 Cross Arms Braces 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross Over Tubes, Cluina 441 Crow Burs. 574 Crow Burs. 575 Curring I ron Heaters, Electric 30, 309 Current Direction Indicator 575 Curred Tubes 618 miles 574 Curved Tubes 618 miles 214 to 220 Curter-Hammer Rheostats 214 to 220 Cutler-Hammer Rheostats 114 to 117 Cut-off Switch and Bell Hanger Combined 180 Fig. 100 F	Contest Cont	Inhorax Strengton Unity, Fletcher Dynamos Nick Dynamos Witch Dynamos Witch Dynamos Platting E Eastern Climbers Securities Securit
Crollius Commutator Compound 488 Cross Arm Braces 454 Cross Arms Braces 454 Cross Arms 188, 454 Cross Arms 188, 454 Cross Over Tubes, Cluina 441 Crow Burs. 574 Crow Burs. 575 Curring I ron Heaters, Electric 30, 309 Current Direction Indicator 575 Curred Tubes 618 miles 574 Curved Tubes 618 miles 214 to 220 Curter-Hammer Rheostats 214 to 220 Cutler-Hammer Rheostats 114 to 117 Cut-off Switch and Bell Hanger Combined 180 Fig. 100 F	Contest Cont	Dynamo Brussies. 129 to 14 Dynamo Brussies. 129 to 14 Dynamo Brussies. 35, 30 Escaptric Clumps. Dicke. 33, 33 Ecountric Clumps. Dicke. 33, 33 Ecountric Clumps. Dicke. 37 to 379, 38, 38 Ecountric State Brussies. 34 Ecountric Insulators. 43 Ecountric Insulators. 43 Edison Attachment Plugs. 10 Edison Flus Bulb. 10 Edison Flus Bulb. 10 Edison From State Box. 11 Edison From State Box. 12 Edison From State Box. 13 Edison From State Box. 14 Edison Flus Bulb. 16 Edison From State Box. 14 Edison From State Box. 14 Edison From State Box. 15 Edison State Flus Box. 15 Edison State Flus Box. 15 Edison State Flus Box. 15 Edison State Box. 15 Edison State Flus Box. 15 Edison State Box.
Crollius Commutator Compound	Contest Cont	Indipersist of the property of
Crollius Commutator Compound	Contest Cont	Indipersist of the property of
Crollius Commutator Compound	Contest Cont	Indipersistent Proof Unity Freedom Dynamos Witch Dynamos Witch Dynamos Witch Dynamos Platting E Fastern Climbers Securitie Ctamps, Dicke Securitie State Securitie
Crolliss Commutator Compound 488 Cross Arm Braces 444 Cross Arms Braces 454 Cross Arms 1816 Cross Arms 1816 Cross Arms 1817 Cross Over Tubes, China 441 Cross Over Tubes 441 Curyod Mipple 574 Curved Mipple 774 Curved Tubes 441 Curted Tubes 441 Curted Tubes 441 Curted Tubes 441 Cut and Etched Shades 441 Etched Sh	Contest Cont	Improve Sternproof Unity, Fretcher 199 to 14 by man Switch 20 by man Switch 37 by man Switch 38 becentrie Champs, Dicke 38 becentrie Champs, Dicke 37 to 379, 381, 38 becomine Flux Bulb 40 becentrie Switches 41 becomine Flux Bulb 40 b
Crollius Commutator Compound	Contest Cont	Improve Sternproof Unity, Fretcher 199 to 14 by man Switch 20 by man Switch 37 by man Switch 38 becentrie Champs, Dicke 38 becentrie Champs, Dicke 37 to 379, 381, 38 becomine Flux Bulb 40 becentrie Switches 41 becomine Flux Bulb 40 b
Crolliss Commutator Compound 488 Cross Arm Braces 444 Cross Arms Braces 454 Cross Arms 1816 Cross Arms 1816 Cross Arms 1817 Cross Over Tubes, China 441 Cross Over Tubes 441 Curyod Mipple 574 Curved Mipple 774 Curved Tubes 441 Curted Tubes 441 Curted Tubes 441 Curted Tubes 441 Cut and Etched Shades 441 Etched Sh	Contest Cont	Indipersistent Proof Unity Freedom Dynamos Witch Dynamos Witch Dynamos Witch Dynamos Platting E Fastern Climbers Securitie Ctamps, Dicke Securitie State Securitie

PAGE.	PAGE. Fletcher Insulating Iron Pin and Bracket 437	PAGE. Grimshaw Tane 407
Electric Heating and Cooking Apparatus,	Pletcher Insulating from Pin and Bracket 43, Fetcher Fole Padlock 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,	Grimshaw Tape 407 Grimshaw White Core Wire 467, 468 Grips 378, 380
ats, 220 Electric He ting Pad 316 Electric Hot Blast Blow Torch 404 Electric Light Elevator Cable 476, 489	Fletcher Safety Lamp Support 185	Grips
Electric Light Elevator Cable476, 489	Flotcher Safety Windlass	Ground Detector and Weston Circuit
Electric Pendants 285 Electric Portable, Ornamental 281 Electric Railway Search Lights 190 Electric Smoothing Irons 313; 319 Flactric Soldering Iron 320	Flexible Brass Chain	Tester 270 Guard Wire Suspension Insulators, P. & S 432 Guards, Lamp
Electric Rallway Search Lights	Flexible Cables, Safety	Guards, Lamp
Electric Soldering Iron	Flexible Conduit	Guards, Lamp. 200 201 Guards, Perfection. 239 Guards, Wire. 200 to 203 239 Guy Clamps, Galvanized. 457
Electric Soutering From State	Flexible Incandescent Lamp Cord489, 490 Flexible Portable	Guy Clamps, Garvanized457
Electric Street Railway Lamps 296	Floor Bushings or Insulators	H
Electric Wall Brackets	Floor Groovers. 398 Floor Tubes, Clina 442, 444 Flush Plates for Snap Switches. 13, 18 to	H. L. Switch 31
Electricians' Hammer	Flush Plates for Snap Switches, .13, 18 to	H. L. Switch
Electricians' Scissors	20, 28 Flush Pocket switches, Edison. 14 Flush Switches. 20 to 25, 27, 28, 30, 31 Fluted Shades. 212, 222	Half Deep Tin Shades
Electrolier Socket 86 Electroliers 205, 206, 286, 287 Elevator Electric Light Cable 476, 489 Elevator Switches 46	Flush Switches 20 to 25, 27, 28, 30, 31	Half Reflector Shades, McCreary 224
Electroliers		Half Shape Shades, Aluminum 234
Elevator Switches	Fout Light Reflector	Liuli Danalese
Framel Field Rhoestats, American Uni-	Foot Warmer, Electric. 314 Forks, Raising 876	Hall Fixtures 276, 285 Hall's Telegraph Pliers 384
versal	Forks. Raising. 376 Four-way Switch, Anchor. 26 Four-way Switches. 18 26 Four-wire Switch, C. S. 22	Hall's Telegraph Pliers 384 Hammers
Enantelae	Four-wire Switch, C. S.,	Hanmers 388 Hand Axes 388 Handles 104, 239, 334, 395, 398 Handy Ratchet Screw Driver 394 Hangers 168, 164, 179 to 181 Hangling Boards 162 to 164 Hard Rubber Battery Cells 140
Enclosed Are Lamps, Western Electric Lamps, Western Electric Standard Wire Gauge 400 Electric Globes, Glass 208 to 211		Handles 104, 239, 384, 395, 398
Engraved Lamps	Freight Lantern 204 French Etched Lamps 297	Hangers
English Standard Wire Gauge	Friction Tape	Hanging Boards
Etched Lamps	Frink's Patent Reflectors229 to 232	Hard Rubber Bushings
Etched Shades	Frink's Suspended Reflecting Chandelier 231 Frosting Varuish 108	Hard Rubber Rods 410
Etched Lamps 208 to 210, 218 to 227 Etched Shades 208 to 210, 218 to 220 Eureka Post Hole Diguers 374 Exhaust Fans and Lundell Motors, Com-	Frosting Varnish	Hard Rubber Sheet 409
bined	Full Cone Shades 220, 223 to 229, 235	Hard Rubber Tubing 411
Connected	Full Cone Shades	Hanging Boards 168, 164, 179 to 181 Hanging Boards 12 to 164 Hard Rubber Bushings 103, 166 Hard Rubber Bushings 103, 166 Hard Rubber Bushings 103, 166 Hard Rubber Ring 104 Hard Rubber Ring 105 Hard Rubber Wetenproof Sockets 470 Hard Rubber Tubing 411 Hard Rubber Tubing with Heads 418 Hard Fubber Tubing with Heads 18 to 20 Hart Switches 16 to 20 Hart Switches 388 Hatches 388
Extension Ring	Furnace, Combination Hot Blast	Hart Switches
Glass Insulators 419	Fuse Cutout Boxes, High Potential 502	Hatchets 388
F	Fuse Link Cutouts	Head Light Switch. 29
F. W. Are Circuit Cutouts 160	Furmace, Combination Hot Blast. 402 Tuse Choton Boxes, High Potential. 502 Fuse Holders, Special. 503 Fuse Link Cutorits. 73, 75 Fuse Links 111 Fuse Flusts 76, 405 Fuse Flusts 18, 111 Fuse Higher Kit, Chicago 112	Hatches 388 Haven's Clamps 377 Head Light Switch 29 Heat Regulating Switch 30 Heaters, Electric 311,315, to 318 Reath Speed Indicator 273
Fan Motor Parts 364	Fuse Posts	Heath Speed Indicator
Fan Motors	Fuse Ribbon	Helios Carbons 171 172
Fancy Lamps 297	Fuse Wire 112 Fuseless Rosettes 65 to 67	Helpers Fire Pot. 462 Hemingray Glass Insulators 420, 421
Farina Botler	Fuses 114, 199, 495	Heiningray Gass Insulators 420, 421 High Insulation Brackets
Peeder and Isolated Plant Amurters,	Fusible Attachment Pings 101	High Insulation Ceiling Button, P & S., 66
Feeder and Isolated Plant Voltmeters.	Fuses Rosectos 114, 199, 495 Fusible Attachment Pings 114, 199, 495 Fusible Wall Socket Receptacles 93 to 98 Fusible Wall Sockets 85, 90	High Range Voitmeters242, 243, 255
Weston Railway 250		Heduligray Gigss Institutors, 220, 421 High Insulation Brackets
Farmia Boller 900 Featherweight Spreader Cutter 183 Feeder and Isolated Plant Annucters, Weston Railway 250 Feeder and Isolated Plant Voltmeters, Peeder and Isolated Plant Voltmeters, Weston Railway 180 Feeder Terminal American Boxes 321, 320 Feeder Terminal American Boxes for Iron		High Voltage Lump
Ferdinand Wire Stretcher 358 Ferrile Screwdriver, Dicke Lock 201 Fiber Rod, Videnized 410 Fiber Sheet, Vilcanized 409	G. E. Key Socket	Hill Knile Switches 41 to 45 Hoffman's Rod Polish 45 Holsting Rope, Cutter's "Banner Core", 450 Holder, Cutter's Globe, 16
Ferrule Screwdriver, Dicke Lock 391	G. E. Keyless Socket. 86 G. E. Pull Socket. 84 G. E. T-H. Keyless Socket. 86 Gale's Commutator Compound. 408	Holsting Rope, Cutter's "Banner Core", 450
Fiber Rod, Vulcanized	Gale's Commutator Compound	Holder, Cutter's Globe. 176 Holders, Fuse 80
Fiber Sheet, Vulcanized. 40. Fiber Tubing. 411 Field Rheostats. 123 to 125, 127 to 129 Fillers. Engineers. 415 Filter. Model Oil. 415 Finishing and Fitting Tools for Conduit, 425 Fire and Weatherproof Wire. 428 Firepot Helpers. 402	Galvanized Arc Lamp Cord 489 Galvanized Gu Clamps 457 Galvanized Gil Washe Cans 414 Galvanized Steel Cross Arm Braces 454 Galvanized Steel Wire Straub 489	Holders, Fuse 100, 223 Holders, Wire 100, 223
Fillers, Engineers' 415	Galvanized Gil Waste Cans	Hood and Pulley, Cutter's Petite 236
Filter, Model Oil 414	Galvanized Steel Cross Arm Braces 454	Hoods Lamp 166 to 168, 191, 235 to 237
Fire and Weatherproof Wire 488	Galvanometer, Bridge and Rheostat 268 Galvanometer, Weston Fortable 270	Hook, Insulator Rubber 482
Firepot Helpers	Garton Lightning Arresters	House Are Cutout 159, 159
Pittings, Arc Switchboard 157	Gas and Electric Onflets Combination	Harse Shoe Cutout
Fittings for Conduit	Ceiling 336 to 338, 342 Gas Attachments 106, 107	Hot Blast Furnaces 402
Fittings, Turned Brass. 290	Gas Fixture Wire	House Brackets
Firepot Helpers 402 Fishing Windows 402 Fishing Windows 403 Fittings Arc Switchboard 403 Fittings Or Conduit 403 Fittings Or Conduit 404 Fittings Turned Briss 60, 78, 80, 372 Fittings Turned Briss 60, 78, 80, 372 Fow O'le Cutouts 125 Fittings Turned Briss 60, 78, 80, 372 Five O'Clock Tea 300 Five O'Cloc	Gasaline Blow Torch, Imperial Hot Blast 403	Hot Blast Purnaces
Five O'Clock Tea 369 Fixture Bushings 163	Ganges	Husks 282, 283
Fixture, Cluster	Gem Wire Holders 434 to 436 German Silver Resistance Wire 486 Globs Switches 12 13 Gimet, Bell Hanger's 394	t
Fixture Custort and Outlet Insulator 280 Fixture Cutout and Outlet Insulator Combination 60 to 63, 08 63 Fixture Cutter Are 188 Fixture Cu	Ginlet Bell Hanger's 394	I T E Circuit Brenkers 55 to 59
Fixture Cutouts 60 to 63, 68, 69	Glass Fuses	I. T. E. Circuit Breakers
Fixture, Ornamental Ceiling. 282	Glass Insulator for High Voltages. 423; 424	I. X. L. Cleat
Fixture Pilers. 384	Glass Insulators 417 to 424, 444	Illuminated Dial Switchhoard Instru-
Fixture Pilors. 384 Fixture Socket, Bryant 2-B. 482, 491 Fixtures Wire. 492, 491 Fixtures, Portable. 280, 281 Flame Lanns. 300	Glinlet, Bell Hanger's 394 Glass Fuses 190 Glass Insulating or Break Knobs 423, 424 Glass Insulating or Break Knobs 423, 424 Glass Insulator for High Voltages. 424 Glass Insulator s 417 to 424, 444 Glass Referetors 221 to 224 Glass Shades 298 to 224 Glabs Carl Fleater's 317 Globe United Fleater's 317 Globe Holder, Cutter 176 Globe See 179 Globe See 179 Globe See 179 Globe See 170 Glass Fleater's 170 Globe See 170 Glass Fleater's 170 Globe See 170 Glass Fleater's 170	Initial Fuse. 56 I. X. L. Cleat 489 Illuminated Dial Switchhoard Instru- neuts, Wagner 496 to 498 Illuminated Dial Weston Station Instru-
Flame Lamps	Globe Car Heaters	ments 145 to 249 Immersion Coll Heater 311 Imperial Hot Blast Gasoline Blow Torch 433
Flame Lamps 301 Flat Base Candlelabra Receptacle 366 Flat Cone Reflectors or Shades 128, 221	Globe Nels	Imperial Hot Blast Gasoline Blow Torch 433
Flat Lead Links	Globes, Arc Lamp	Imperial Rose(tes,
Flat Long Nose Piters 383	Globes, Elched Electric	Improved Adjustable Lamp Hanger
Flat Reflectors	Globes, Weatherproof 238	
Flat Cone Reliectors or Shades	Gloves, Rubber. 408 Glue Pol. Electric 919	Luproved Parallel Wise Steedalysis
Fletcher Automatic Policy, 185	Globe Nels F19	Improved Plugs
Fletcher Double Pin Bell Break Arm	Griddles, Pancake 315	Improved Springjack 457 Improved Take-up Reel 378
Fletcher Insulating Are Lamp Hangers 181	Griddles, Pancake	Improved Foundation Sawyer-and Grandert de- part of the Frankel Wire Streichers and Improved Plugs 157 Improved Springiack 157 Improved Take-up Hoel 576 Improved Wire Tool, Howe's 300

Incandescent Arc Lamps 191 to 193	K. W. Rosettes	M PAGE,
Incandescent Arc Lamps 191 to 191 incandescent Lamp Cord 489, 491 incandescent Lamps 295 to 302 incandescent Street Brackets 450 inc	K. W. Rosettes PAGE. K. W. Rosettes 68, 64 K. W. Main and Branch Cutouts 77 K. W. Receptacles 96 Kelsh Are Hanger Board 61, 61 Kerite Vire 47 Kerite Vire 47 Kerrosene Lamp Attachment 291 Kester's Communicator Compound 408 Key and Keyless Lamp Receptacles, Edison 98	Macallen Solld Mica Insulating Joints
Incased Wire	Kelsh Arc Hanger Board 164 Kerite Tape 407	Machine Bolts
Indicator, Current Direction 153	Kerite Wire	Magnet Wire
Indicator, Potential. 24 Indicators, Speed. 272, 273	Kester's Commutator Compound 408 Key and Keyless Lamp Receptacles,	Main Block, Sawver Man, P. & S 79
Tustic Renmer 355	Way Sockete 92 to 95 97 to 91 97 to 100 199	Main Branch Cutouts
	Key Switches 23, 27 Key Wall Sockets Edison 87, 88 Keyless Receptacles 88, 93 to 98 Keyless Sockets 83 to 100, 199 Keys 88 to 100, 199 Keys 88 to 100, 199	Main Cutouts. 82 Main Cutouts. 69 Main Junction and Terminal Boxes for Iron Armored Conduit. 329 Main Line Cutouts. 77
Instruments, Alternating Current257 to 265, 271, 496 to 498	Keyless Receptacles	Main Line Fuse Blocks 80
Instruments, Direct Current155, 240 to 263, 266 to 271 Instruments, Wagner Switchboard.496 to 496 Insulated Cross Arm	Rey less 500km/s. \$3 to 10, 139	Main Plugs
Instruments, Wagner Switchboard 496 to 498 Insulated Cross Arm	Kinsman Portable 281 Kit, Chlcago Fuse Repair 380	
Insulated Suspension Bolt, Cutter's	Klein's Compound Eccentrics	ets
Insulated Turn Buckle, Cutter's 450 Insulating Arc Lamp Hangers, Fletcher 181	Klein's Plain Eccentric 377 Klein's Splicing Clumps 385 Knife Elevator Switch 46	Manilla Rope
Insulating Arc Lamp Hangers, Fletcher 181 Insulating Boxes, Corner	Knife Elevator Switch 46 Knife Switches 32 to 53 Knives, Draw 396 Kreuger Theatre Arc Lamp 192	Manson Tape. 407 Maple Leaf Shade, Rough Etched 212 Marine Desk Lamp 205
Jusulating Iron Pin and Bracket, Fletcher 437	Kreuger Theatre Arc Lamp 192	Marine Dosk Lamp 205 205
Insulating Nipples for Iron Armored		Marine Lanterns
Unidmit	_ L	Marine Shades. 203 Marine Sockets. 199
Insulating Paints	L. & S. Knife Switch. 38 Ladle Solder 406	Marine Sockets. 203 Marine Sockets. 199 Marine Switches 199, 200 Marine Supplies 199 to 206 Marine Wall Brackets. 204, 205 Marten Combination Shade and Holder. 226 Marten Hood 277
Insulator, Cutter Arc. 182 Insulator, Cutter Revolute. 181	Lacquer Radiant 108 Lag Bolts 455	Marine Wall Brackets
Insulator, Liquid	Lag Screw Wrenches	Marten Hood
Insulator Tube, Awning	Lamp, Alcohol Blow	Mast Arms
Insulator Tube, Awning 181, 182, 417 to 438, 422 418	Lag Bodts Lag Screw Wrenches	Marten Hood 275 Marten Hood 277 Mast Arm Pulley, Cutter's 187 Mast Arms 189, 190 Mats, Wood 24, 102 McCreary Reflectors 223, 224 McIntire Patent Wire Connectors 449 McIntire Twisting Clamps 449 McIntire Twisting Clamps
Insulators, Glass	Lamp Cross Arms. 182 Lamp Guards 200 to 203, 239	McIntire Twisting Clamps 386 McRoy Vitrified Terra Cotta Conduit 357 Measuring Instruments 155, 240 to 273,
Insulators, Tree		Measuring Instruments 155, 240 to 273,
Insulac 412 Insullac Thinner 412 Interchangeable Pulley, Cutter's 188 Interlocking Switchboard for Theatre Lighting 134	Lamp Hooks Arc 164, 165	Medium Horse Shoe Cutout
Interlocking Switchboard for Theatre	Lamn Posts	Medium Horse Shoe Cutout 61, 62 Medium Horse Shoe Cutout 61, 62 Melon Bulb Shade, Twist 218 Mercury Contact Circuit Breakers 57 Metal Covers for Branch Boxes for Briss Metal Covers for Branch Boxes for Briss
Interlocking Switchboard for Theatre Lighting Wilcholm Splicing Boxes 1 34 Irron Armored Conduit Stanel, Junction of Outlet Box Covers 29, 933 Irron Armored Conduit Franch, Junction of Outlet Box Covers 29, 934 Iron Armored Conduit Tools 32, 223, 326, 37 Iron Armored Conduit Tools 32, 223, 326, 37	Lamip, Marine Desk	Armored Conduit
Iron Armored Conduit Branch, Junction or Outlet Box Covers 3:9, 343	Lamps, Arc 191 to 193 Lamps, Incandescent 295 to 307	Boxes for Iron Armored Conduit.
Iron Armored Conduit Tools	Lance Tip Lamps	Metal Dipping Cup 108 10
Iron Brackets	Lantern Lamps	Metal Half Shades with Combination
Iron Clad Fan Motor	Large Arc Circuit Cutout, F. W. 169 Large China Tubes 442, 443	Metal Half Shades with Wire Guard 226 Metal Hoods 237
Iron Duopod	Lateral Brackets	Metal Shades and Reflectors,225 to 237 Meter and Wire Reel
100 Discipling 100	Lead Covered Cable Simplex Low Ten-	Metal Holds
Iron Pins, Solid	Sion	Meter for Alternating Current, Shallen- berger
Iron Pulley Blocks	Lead Encased Wire, Safety	berger 264 Meter for Counter, Wire 392 Meter Sealing Tools 267
Iron Wall Box for Switches 24	Lead Seals	Mica Coursed Dayont Filters Mat. 413
Iron Wall Royes for Champan Recen-	Lens 195 Lens Lamps 304 Leonard Universal Automatic Rheostats	Branch Blocks
tacles 102 Iron Wire, Triple Braid Weatherproof 487 Irons, Electric 313, 314, 319	Lightning Arresters	Mica Insulating Joints, Macallen 109 to 111 Mica Lamp Sockets, Moulded
Irons, Soldering	Lightning Speed Indicator. 272 Line Tapping Clamps 399	Mica Lamp Sockets, Moulded 89 Micrometer Calipers 400 Midget Cutouts 60 69
Irons, Soldering 3:0 Isolated Plant and Feeder Ainmeters, Weston Rallway. 251, 253 Isolated Plant and Feeders Voltmeters, Weston Railway. 250	Line Tapping Clamps 399 Line Switches, Arc Light 162 Lined Reflector, Ahminum 220	Midget Cutouts
Weston Railway		Milli Voltmeters
J .	Lineman's Splicing Pliers, Fry's Patent. 382 Lineman's Tool Bag. 399 Lineman's Torch. 406	Mill Voltmeters Millstruckers 1 Lamps. 299 to 305 Millstrucker Incandescent Lamps. 299 to 305 Millstruckers Lamp Riceeptacles
Japanned House Brackets 461 to 465	Links, Fise	Mining Wire, Simplex Caoutchous 482 Mirror Reflectors
Appanned Wall Plates 462 462 462 462 462 462 462 462 463 464 465	Lock, Cutter's Pole	Miscellaneous Material for Brass Ar- mored Conduit
Johns Manufacturing Company's Sockets, II. W 89	Lock Flush Plates, Hart	mored Condult
Joint Rigid Ball, 45 degrees 274	Locke Indestructive Insulating Pin	Model Oil Filter
Johnt, Insulating	Locomotive Oilers. 416 Locust Pins. 451	Motors and Dynamos. Lundell. 371. 503 Motors and Dynamos. Lundell. 370 Motor Cutont Covered 69, 78, 80, 372 Motor Regulating Ribeostats 111 111, 129 Motor Starting Boves 114 to 117, 119, 129 Motor Switches, Automatel. 313, 132 Motors, Fan. 355 to 397 Motors, Fan. 355 to 397
Jumbo Wire Holder Jimetlon Boxes and Motor Citauts, P. & S., all Chin	Locust Pins. 451 Long Burning Euclosed Arc Lamps, Western Electric. 193	Motor Starting Boxes 114 to 117, 119, 120
dult		Motors, Fan
dult	Long Nose Pilers, Flat. 383 Long Tubes with Curved End 442 Loop or Spreader Brackets 459	
Conduit	Loops, Tron. 107 Low Tension Simplex Cable 479, 480 Landell Motors and Dynamos 370 Lundell Motors and Exhaust Fans, Com-	Moulded Mica Lump Sockets
E. W. Donnelson Contract	Lundell Motors and Exhaust Fans, Com-	Mule or "Dead Man" Pole Supports 375, 389
K. W. Bracket Cutout	omed	atumple circuit Tablet Boards69, 70

AMERICAN ELECTRIC COMPANY.

		
Multiple Cutout Boards 69, 70, 72, 81, 82 Multipliers for Voltmeters	Parts for Torches	Portable, Kinsman
Multipliers for Voltmeters	Farts for Torcines 493 Paste, S. S. Soldering 401 Patent Augurs, Vauchan's 54 Patent Branch Block, Seymour's 79 Patent Corner Bit Brace, Amidon's 38 Patent Corner Bit Brace, Amidon's 38 Patent Reflectors, Frink's 229 to 32 Patent Wire Connectors 102 Patent Patent 102 Patent Vire Connectors	Portable, Kinsman 281 Portable Lamp Guards 200 201 Portable, Plain Standard 280 Portable Tachometer, Standard 273
A. 1	Patent Augurs, Vaugnan S	Portable Tachometer, Standard
N	Patent Corner Bit Brace, Amidon's 396	Portables, Desk
Nail Hammers	Patent Reflectors, Frink's 229 to 232	Porter's Wire Cutters 397
sulators 419	Patent Wire Connectors, McIntire	Post Office Bridge and Bleestat 967
	Pear Shaped Lamps	Posts, Fuse
Nets, Globe 179 New Patterns in Standard Shades 212 New Sylve Cutout 69 New Suburban Hood 237	Part Raped Lamps 295 Pearl Etched Shades 213 Peeler, Wire 84 Pendants 953	Fortable Achieved 200
New Suburban Hood	Pendauts	
New York Switch 30	Pendauts	Pots, Solder
230 240	Perfection Guards 230	Powdered Soanstone 255
	Perkins Flush Plates	Powdered Soapstone
Conduit 3:4, 328 Non-sparking Brushes. Western Electric	Perkins Sockets	Prism Lamps
141, 142. Norway Pine Poles 456		Prism Lamps
Sorway Fills Follows 1-0	Pern Cutouts 69 Petite Pulley and Hood, Cutter's 236	194 to 196. Protected Terminal Fuses. 56- Protector, Mica Dust. 223
No. 1 Sockets. Bryant	Pike Poles 375 Pilot House Projector 194 to 196 Pin. Fletcher Insulating Iron 437	Protector, Mica Dist. 223 Pull Sockets 84
No. 2-B Sockets, Bryant	Pin. Fletcher Insulating Iron 437	Pulley Blocks
Nursery Iron 319	Pine Poles. 456 Plnton Serewdriver. 394 Pins 451, 452, 458, 459 Pipe Cutters. 343, 397 Pipe Wrench. Shefty. 303 Plain and Brass Covered Conduit Branch. 301, 46, 359	Full Sockets S4 Full Sockets S4 Fulley Blocks 381 Fulleys Steetproof 150 to 185 Fulling-in Boxes for Iron Armored Conduit 331 332 332 Full Full Full Socket 50 Full
THE WICHERS	Pins	duit
•	Pipe Wrench, Sheffy 303	Pure Manilla Rope
Oak Pins 451	Plain and Brass Covered Conduit Branch Circuit Junction Boxes	Push Button Switches
Oak Pins 451 Octagonal Pole 476	Circuit Junction Boxes349 to 352 Plain Braces	Q
Office Wire, Braided 431	Ploin Conduit	•
Office Cables 491 Office Wire, Braided 411 Oil Cans. 415, 416 Oil Cans. Galvanized Waste 414	Plain Rosette, No Fuse	Q. & S. Cord Adjuster
Oll Filter 414	Plain Standard Portables	Quadrant Cutout. 60 Queen Decade Testing Set 270- Queen Instruments. 270-271 Queen Wirt Ammeters and Voltmeters. 271 Qulck Break Western Electric Knife Switches. 37
Oiler Sets 422	Plating Dynamos 280, 462	Queen Wirt Ammeters and Voltmeters. 271
Ollers, Locomotive	Platinum Wire 492	Quick Break Western Electric Knife
Okonite Tubing	Pliers	Differences, I in the second of the second o
Oil Clans, Galvanized waste. 413 114 115	Plug Cutonts	R
Opal Shades	Pi - in Conduit	Radial Fluted Shade
Ornamental Brackets 277	Plugs, Attachment	Radiant Lacquer 108 Rae Store Reflector 176
Ornamental Brackets 277 Ornamental Ceiling Clusters 283 Ornamental Ceiling Fixtures 282	duit	Railroad Oilers 416
	Plugs, Disconnecting	Railway Double Petticoat, Deep Groove
Ornamental Moulding 248 Ornamental Moulding 248 Ornamental Pendants 255 Overload and No Voltage Rheostat 1.0 Overload and Underload Circuit Breaker 57 Outlet Poxes for Iron Armored Conduit	Tings Ast Front for 170n Armored Con- Plugs, 1704 sand Lamp Adapters .5.7 Plugs, Disconnecting .5.7 Plugs, Disconnecting .6.7 Plugs .6.7	Sare Store Reflectors Sare Store Reflectors
Overload and Underload Circuit Breaker, 57	Plugs, Fuse	Raising Forks
Outlet Boxes for 1ron Armored Conduit	Pocket Screwdrivers, Novelty 3/4	Ratchet Double Pole Switch. 10
Outlet Elbows for Brass Armored Con-	Pocket Switches, Edison Flush 14 Pod Bits 394 Pointea Soldering Coppers 401	Ratchet Screw Driver
duit	Pole Arc Fixture Cutter 189	Reamer Butt for Iron Armored Conduit 343 Reamers 355
Outlet Insulators. 323, 327 Outlet Or Switch Box for Iron Armored Conduit. 342 Outrieger, Cutter 342 Outrieger, Cutter 355	Pole Arc Fixture, Cutter	Reamers 355 Receptacles 90
Outlet or Switch Box for Iron Armored	Pole Lock, Cutter 182 Pole Padlock, Fletcher's 182	Angle 96 Bryant 93, 96
Outrigger, Cutter	Pole Padlock, Fletcher's	Chapman
Outs de Reamer	Pale Pulleys 186, 187 Pole Steps 457 Pole Supporters 375, 389	Bdiscn
P	Poles	Brass Armored Conduit 352
P. & B. Paint	Poles 456 Poles Pike	Fusible Wall Socket93 to 98- K W 94 tc 96
P. & S. All China Junction Boxes and	Polish, Hoffman's Rod 48 Polyshed Brass Armored Conduit 352 Polished Brass Fixture Bushings 103 Polishing Irons 312 319	Marine
P. & S. All China Junction Boxes and Motor Cutonits 372 P. & S. China Hangling Boards. 1162, 163 P. & S. China Hangling Joints. 111 P. & S. China Sockets 17, 98 P. & S. China Sockets 19, 98 P. & S. China Sockets 18, 38 P. & S. China Sockets 19, 20 P. & S. Guard Wire Suspension Insulation 19, 20 P. & S. China Sockets 19, 20 P. & S. Guard Wire Suspension Insulation 19, 20 P. & S. China Sockets 19, 20 P. & S. China Sockets 19, 20 P. & S. Guard Wire Suspension Insulation 19, 20 P. & S. China Sockets 19	Polishing Irons	Angle . 9.6 Bryant . 93, 96 Caudelabra Lamp . 93, 96 Caudelabra Lamp . 36, 96 Chapman . 8, 94, 95 For Conduit Branch Blocks for 8 Brass Armored Conduit . 32 Fuelble Wall Socket . 83 to 88 Kulle Wall Socket . 93 to 88 Marine . 94 Marine . 96 Miniature Lamp . 96 P. 8 S. 97, 98 Pony . 97 98
P. & S. China Insulating Joints		Porcelain Keyless 93
P. & S. China Switches 10, 11	Pony Receptacle	Pony 96 Porcelain Keyless 93 Search Light 200 Shadeholder 93 to 96 306 306
P. & S. Cleats	Porcelain Bushings	
P. & S. Cutouts	Pony Receptacle	Testing Base 96
P. & S. Rosettes	Porcelain Cleats 438, 439 Porcelain Covered Bryant-Edison Fuse	Recorder, l'attee's Lamp Hour
P. & S. Rosettes .64 to 67 P. & S. Sawyer-Man Main Block .79 P. & S. Wiring Insulator .431 P. & S. Tree Insulator .434	Porcelain Insulators 425 to 434, 444	Recording Instruments, Bristol259, 260
P. & S. Wiring Insulator	Porcelain Keyless Receptacles and	Recording Meters, Duncan
Packing House Lamp Cord, Special 490	Porcelain Knobs	Recording Voltmeters, Bristol 260
Packing House Lamp Cord, Special. 490 Pad, Electric Heating. 310 Padlock, Fletcher's Pole. 182	Porcelain Shades 298	Weatherproof or Waterproof. 22 to 98 Recorder, Pattee's Lamp Hour 176 Recording Amperemeter, Bristol 229, 260 Recording Instruments, Bristol 220, 260 Recording Instruments, Bristol 220, 260 Recording Watmeters 200, 261 (7028), 265 Recording Vatimeters, Edit State 200, 261 (7028), 265 Recording Voltmeters, Bristol 220 Recording Watmeters, Bristol 200, 261 Recording Wire, Habristaw 466, 467 Recording Wire, Habristaw 376, 391, 392 Record 200, 270 Record 200, 27
Faunce Freterier Frois	Porcelain Socket Rings	Reels
Pancake Griddle 315	Porcelain Tubes, B, & T	Reflector, Rae Store
Panel Board, Richmond. 495 Paper Waterproof Lamp Shades, Cartwright. 224 Para Splicing Compound. 407 Para Splicing Compound. 407	Porcelain Window Tubes	Register, Counter, Pole or Talley 399
Para Splicing Compound 224	Portable and Bracket, Adjustable 280 Portable and Bracket, Combined	Regular Glass Insulators
Parapolic Reflector. 234	Porcelain Covered Bryant-Edison Fise Blocks	Regulator, Combined Starting Box and
Parallel Pliers, Bernard's 364	Portable, Electric Ornamental, 281 Portable, Flexible 280	Removable Pin Break Arms
Parallel Screw Clamp 378 Parallel Wire Stretchers 379 380 Partition Bracket 275	Portable, Flexible	Receis.
Partition Bracket	#54 to 258, 266 to 271.	Resistance Wire, German Silver 486

Return Elbows for Brass Armored Conduit. Sheet Rrass Clips for Brass Armored Conduit. Accordingers 117, 121, 122, 125 Sheet Rrass Clips for Brass Armored Conduit. Sheet Rrass Clips for Brass Armored Conduit. 348 Sheet Rrass Clips for Brass Armored Conduit. Sheet Rrass Clips for Brass Armored Conduit. 348 Sheet Rrass Clips for Brass Armored Conduit. Sheet Rrass Clips for Brass Armored Conduit. 348 Sheet Rrass Clips for Brass Armored Conduit. Sheet Rrass Clips for Brass Armored Conduit. 348 Sheet Rrass Clips for Brass Armored Conduit. Sheet Rrass Clips for Brass Armored Conduit. 348 Sheet Rrass Clips for Brass Armored Conduit. Sheet Rrass Clips for Brass Armored Conduit. 348 Sheet Rrass Clips for Brass Armored Conduit. 349 Sheet Rrass Clips for Brass Armored Conduits for Brass Armored Conduits for Brass Armored Conduits for Brass Armored Research Condu	116 303, 305 222, 223
Sheet Brass Clips for Brass Armored Reversing Controllers 117, 121, 125 Reversing Keys 128 Reversing Keys 12	116 303, 305 222, 223
Reversing Keys 348 Sheeft pripe Wrench 439 Speed Infrared Controller 348 Speed Infrared Controller 440 Speed Infrared Controller 348 Speed Infrared Controller 348 Speed Infrared Infrared 348 Speed Infrared Infrared 348 Speed Infrared Infrared 348 Speed Infrared Infrared 348 Speed Infrared 348	116 303, 305 222, 223
Reversing Keys 348 Sheeft pripe Wrench 439 Speed Infrared Controller 348 Speed Infrared Controller 440 Speed Infrared Controller 348 Speed Infrared Controller 348 Speed Infrared Infrared 348 Speed Infrared Infrared 348 Speed Infrared Infrared 348 Speed Infrared Infrared 348 Speed Infrared 348	116 303, 305 222, 223
Revolute Insulator, Cutter 243 Sheff Yipe wreen 333 Speed Indicators Sheff Yipe wreen 335 Sheff Yipe wreen 336 Sheff Yipe wreen 337 Sheff Yipe wreen 338 Sheff Yipe wree	116 303, 305 222, 223
Rheostats 14 to 120, 133 to 136 Ribbon Fuse 132 Short Shell Sockets 373 574 Richmond Panel Board 455 Richmond Plug Cutout 455 Richmond Plug Cutout 455	116 303, 305 222, 223
Rileostatis 114 to 129, 130 to 136 Ribbon Funel Board 125 Ribbon Funel Board 125 Rich Russel Board 145 Rich Russel Board 145 Rich Russel Board 145 Rich Russel Russel 145 Rich Russel Russel 145 Rich Russel 145 R	303, 305 222, 223 011- 331, 332 386 390
Klibbon Fuse. 112 Shovels 3.33 275 Spiral Corrusated Shades. Skiehmond Plug Cutout 495 Klehmond	222, 223 011- 331, 332 386 390
Kichmond Tanel Board 485 Khunt Block with Protected Terminal 56 Klick Block with Protected Terminal 56 Klick Regulating Sockets 244 to 25 Klick Regulating Sockets 27 Klick Regulating Sockets 27 Klick Regulating Sockets 27 Klick Regulating Sockets 28 Klick Regulation Sockets 28 Klick Regulation Sockets 28 Klick Regulation Sockets 28 Klic	on- 331, 332 386, 390
Richimond Plug Cutout	331, 332 386 390
Rich Cut Shades 214 to 220 Shunts for Illuminated Dial Station Am- Ries Regulating Soekets 99 Rigid Ball Joint, 45 degrees, 274 Side Brackets, 460 Splicing Clamps for Connectors385 Rigid Ball Joint, 45 degrees, 274 Side Brackets, 460 Splicing Piers	386 390
Ries Regulating Sockets 99 meters 245, 247 Splicing Compound Rigid Ball Joint, 45 degrees 274 Side Brackets 460 Splicing Pilers	
Rigid Ball Joint, 45 degrees	407
	38.
King, Extension	390
Kings, Socket	387
Risers, Insulated Wood	291
Ring, Extension. 291 Rings, Socket 106 Risers, Insulated Wood. 493 Rod Pollsh. 498 Rods, Hard Rubber 410 Roof Brackets. 450 Rods, Vulcanized Fiber. 410 Roof Brackets. 450 Rosette and Cleat Combined, Bryant 06 State Cutting Piers 882, 383 Side Cutting Piers 882, 382 Side Cutting Pie	432, 444
Rods, Hard Rubber	374
Rods, Vulcanized Fiber 410 Silk Covered German Silver Resistance Spreader Brackets	459
Roof Brackets	183
Rope	119, 120
Rosette and Cleat Combined, Bryant 66 489, 490 Springiack, Improved	157
tods, Hard Rubber 488 Rods, Vilcanized Fiber 498 Rods Place 1982, 459 Rose tes and Cleat Combined, Bryant 68 Rosettes 498 Rosettes 498 Rosettes 598 Rosettes 598 Rosettes 798	380
Anchor Celling 68 Silver Plated Mirror Reflectors 228, 232 Spurs B. E. 70 Silvered Glass Reflectors 221 to 223 Square Base Rosettes for Moulding V	386, 390
B. E	ork
Ceiling Rosette with Cap. P. & S 66 Silvered Scalloped Shade	
Ceiling Rosette with Cap. P. & S. 66 Silvered Scalloped Shade. 22 63, 65, 66, 68, 70. Cleat. 63, 64, 66 to 68, 70 Simplex Tape. 407 Square Miniature Lamp Receptacle.	307
Combination 63, 65, 66, 68, 70 Simplex Tree Insulator	98
Concealed	.98, 100
Rope 182 459	7 to 219
Fuseless	ors. 420
High Insulation Ceiling Button, 66 Single Pole Cutout, 500 Volts 69, 78, 80, 372 Standard Direct Reading Mil Amme	ters
Imperial 67 Single Silk Covered Magnet Wire 485 And Ammeters, Weston 185 to 185	244
K. W. Ceiling	454
Moulding Work63 to 66, 68, 70 Sleeving, Cotton	.94, 95
	5 to 88
Plain Fuse 67 Socket Bushings 103, 106 Standard Glass Insulators, Hemin Roughed Ethed Maple Leaf Shade 214, 217 Socket Framing Chise 104, 239 Standard Fuse 104,	ray
Roughed Etched Maple Leaf Shade 212 Socket for Series Incandescent Lamps 86, 87 420, 421	
Roughened Inside Shade	83
Round Cedar Poles	451
Roung Leed Inside Sliade .214, 217 Socket Framing Chisel .388 Standard No. 1 Sockets. Bryant. Round Cedar Poles 456 Socket Handles .104, 239 Standard Pins. Western Union. Round Long Nose Pilers 383 Socket Rings 106 Standard Portable Direct Reading.	olt-
Round Miniature Lamp Receptacles 307 Sockets meters, Weston	241, 242
Rubber Battery Cells	280
Rubber Covered Midget Cutout	273
Kongleened Inside Stade 214, 217 Socket Framing Chisel 398 Standard No. 1 Sockets. Bryant. Round Cedar Poles 465 Socket Handles 104, 239 Standard Pins. Western Union. Kound Long Nose Pliers 383 Socket Rings 106 Standard Portable Direct Reading 'I meters. Weston. Rubber Battery Cells 410 Anchor 91 Standard Portable Plain. Rubber Gaskets. 203 Bracket 89 Standard Portable Voltmeters. Rubber Gloves 488 Brash-Swan 100 Standard Round Candelabra Recents	4 to 256
Rubber Gloves 408 Brush-Swan 100 Standard Round Candelabra Recepta	cles 306
Rubber (Hortes) 408 British-Swan 90 Standard Roued (andelsbir Recepts Rubber (Hortes) 34 Bryant 83 to 85, 92 83 Standard Street Hood, Cutter's Rubber Rods, Hard 90 Vilago 83 to 85, 92 90 Standard Street Hood, Cutter's Rubber Sheet 90 Vilago 90 Vilago 85 to 85 85 10 80 10	236
Rubber Rods, Hard	279
Rubber Sheet	Edi-
Socket Rings	95
Rubber Tubing 411, 413 Extra Long Key 84 Standard Wife Gauges	400
Cutter's Street Hood. 3 Standard Waterproof Receptacles, 10 Standard Waterpr	153
Rushmore Projectors and Search Lights For Conduit Branch Boxes	., 355
194 to 196 For High Candle Power Lamps 86 Stables	355
Fusible Wall Se 00 Stan Shades with Colored Edvings	902
S Fusible Wall	306
S Fusible Wall	306 401
S Pusible Wall	306 401 4 to 120
S Fusible Wall 55, 90 50 Star Shades with Colored Edgings. Key 83 to 85, 87 to 91, 97 83 to 85, 87 to 91, 97 85 to 81, 87 to 91, 97 85 toldering Nicks. Saddle Staples 492 Moulded Mica 98 81 arting Boxes, Motor 18 81 arting Boxes, Motor 11	306 401 4 to 120 179
S Pusible Wall	306 401 4 to 120 179 5 to 247 7 to 416
S Fusible Wall 8.5 90 Star Sladers with Colored Edgings. Key 83 to 85, 87 to 91, 97 97 85 soldering Paste. 401 Marine 99 Starting Boxes, Motor 1 Sadety Fisse Blocks. 452 Moulded Mica 89 Starting Boxes, Motor 1 Satery Fisse Blocks. 80 P. & S 97, 98 Station and Workmen's Supplies. Satery Lamp Support, Fletcher. 185 Perkins 89, 90 Station and Workmen's Mounters	306 401 4 to 120 179 5 to 247 7 to 416
S	306 401 4 to 120 179 5 to 247 7 to 416 trn- 6 to 498
S Fusible Wall 8.5 90 Star Sladers with Colored Edgings. Key 83 to 85, 87 to 91, 97 97 83 to 85, 87 to 91, 97 98 98 81 star Slodering Stokes. 81 star Slodering Stokes. 81 star Slodering Stokes. 82 star Slodering Stokes. 83 to 85, 87 to 91, 97 98 81 star Ing Boxes, Motor 1 Safety Fise Blocks. 80 P. & S. 97, 98 81 star Arresters. 98 tation An uneters 98 tation and Workmen's Supplies. 43 starty Star Stokes 98 tation An understring and Starty Windless. 98 tation Starty Sta	306 401 4 to 120 179 5 to 247 7 to 416 trn- 6 to 498 41 to 46
Rushmore Projectors and Search Lights For Conduit Brancil Boxes 35 Staple Drivers.	306 401 4 to 120 179 5 to 247 7 to 416 trn- 6 to 498 41 to 46 248, 249
S	306 401 4 to 120 179 5 to 247 7 to 416 trn- 6 to 498 41 to 46 248, 249 163, 164
S	306 401 4 to 120 179 5 to 247 7 to 416 trn- 6 to 498 41 to 46 248, 249 163, 164 317
S	306 401 4 to 120 179 7 to 416 trn- 6 to 498 41 to 46 248, 249 163, 164 317
S	306 401 4 to 120 179 5 to 247 7 to 416 trn- 6 to 498 41 to 46 248, 240 163, 164 317 162 164 202 203
S	306 401 4 to 120 179 5 to 247 7 to 416 trn- 6 to 498 41 to 46 248, 240 163, 164 317 162 164 202 203
S	306 401 4 to 120 179 5 to 247 7 to 416 trn- 6 to 498 41 to 46 248, 249 163, 164 317 162 164 202 203 454 415
S Fusible Wall S, 90 Star Shades with Colored Edgings S S Soldering Paste 401 Marine 80 Star Shades with Colored Edgings S S S S S S S S S	
S	
S	
S	
Safety Wire Holder	
S	
S	
Serew Champ, Tariet 380, 387, 308 Soldering Furnaces 402 Steel Tie Wrench.	
Serew Champ, Tariet 380, 387, 308 Soldering Furnaces 402 Steel Tie Wrench.	
Serew Champ, Tariet 380, 387, 308 Soldering Furnaces 402 Steel Tie Wrench.	306 401 4 to 120 5 to 247 7 to 416 trn- 6 to 498 41 to 46 248, 249 163, 164 202 203 415 416 387 415 416 387 417 418 417 418 417 418 418 418 418 418 418 418 418 418 418
Serew Champ, Tariet 380, 387, 308 Soldering Furnaces 402 Steel Tie Wrench.	
Serew Grapp, Faranet 380, 387 308 Soliciting Furiness 300 Serew Grapp Soliciting Furiness 301 Soliciting Furiness 302 Soliciting Furiness 303 Soliciting Furiness 303 Soliciting Furiness 303 Soliciting Furiness 304 Soliciting Furiness 305 Series Furiness 306 Series Furiness 307 Soliciting Furiness 308 Steps Furiness 308 Steps Furiness 308 Steps Furiness 308 Steps Furiness 309 Steps Furines	387 489 457 309 176 311
Serew Grapp, Faranet 380, 387 308 Soliciting Furiness 300 Serew Grapp Soliciting Furiness 301 Soliciting Furiness 302 Soliciting Furiness 303 Soliciting Furiness 303 Soliciting Furiness 303 Soliciting Furiness 304 Soliciting Furiness 305 Series Furiness 306 Series Furiness 307 Soliciting Furiness 308 Steps Furiness 308 Steps Furiness 308 Steps Furiness 308 Steps Furiness 309 Steps Furines	387 489 457 309 176 311
Serew Serew Serew Serew Soldering Furtraces Soldering Furtraces Serew	387 489 457 309 176 311 301 290 221
Serew Serew Serew Serew Soldering Furtraces Soldering Furtraces Serew	387 489 457 309 176 311 301 290 221
Serew Serew Serew Serew Soldering Furtraces Soldering Furtraces Serew	387 489 457 309 176 311 301 290 221
Secret Wamp, Farallet 30, 387	387 489 457 309 176 311 301 290 221
Secret Wamp, Farallet 30, 387	387 489 457 309 301 301 290 221 4 to 482 189, 450 91 5 to 237
Secret Wamp, Farallet 30, 387	387 489 457 309 301 301 290 221 4 to 482 189, 450 91 5 to 237
Secret Wamp, Farallet 30, 387	387 489 457 309 301 301 290 221 4 to 482 189, 450 91 5 to 237
Secret Wamp, Farallet 30, 387	387 489 457 309 301 301 290 221 4 to 482 189, 450 91 5 to 237
Screw (min), Farallel. 30, 337 300 Screw (min), Farallel. 30, 330 Soldering Firmscs. 300 Soldering Firmscs. 400 Soldering Stick. 401 Stranglit Flame Lamps. Street Mod. 501 Soldering Stick. 401 Stranglit Flame Lamps. 501 Street Mod. 501 Street Mod. 506 Street Mod	387 489 457 309 176 311 200 221 4 to 482 189, 450 91 5 to 237 421 296 3 to 380
Screw (min), Farallel. 30, 337 300 Screw (min), Farallel. 30, 330 Soldering Firmscs. 300 Soldering Firmscs. 400 Soldering Stick. 401 Stranglit Flame Lamps. Street Mod. 501 Soldering Stick. 401 Stranglit Flame Lamps. 501 Street Mod. 501 Street Mod. 506 Street Mod	387 489 457 309 176 311 200 221 4 to 482 189, 450 91 5 to 237 421 296 3 to 380
Serew Wildly Sere	387 489 457 309 176 311 200 221 4 to 482 189, 450 91 5 to 237 421 296 3 to 380
Serew Wildly Sere	387 489 457 309 176 311 200 220 4 to 482 189, 450 91 5 to 237 421 296 3 to 380
Serew Wildly, Tarlatel. \$60, 587 500 500 500 500 500 500 500 500 500 50	387 489 457 309 176 301 200 221 4 to 4×2 189, 450 191 5 to 237 421 296 3 to 380 382 377 39, 40 5 to 297 4 to 452
Screw Mamp, Farallel. 304, 305, 307, 308, 307, 308, 308, 308, 308, 308, 308, 308, 308	387 489 457 309 176 301 301 221 4 to 482 189, 450 197 421 296 3 to 382 377 381 377 391 405 391 405 391 405 395 405 405 405 405 405 405 405 40
Screw Mamp, Farallel. 304, 305, 307, 308, 307, 308, 308, 308, 308, 308, 308, 308, 308	387 489 457 309 176 301 301 221 4 to 482 189, 450 197 421 296 3 to 382 377 381 377 391 405 391 405 391 405 395 405 405 405 405 405 405 405 40
Secret Wamp, Farallel.	387 489 457 309 176 301 301 221 4 to 482 189, 450 197 421 296 3 to 382 377 381 377 391 405 391 405 391 405 395 405 405 405 405 405 405 405 40
Secret S	387 489 457 309 176 301 301 221 4 to 482 189, 450 197 421 296 3 to 382 377 381 377 391 405 391 405 391 405 395 405 405 405 405 405 405 405 40

PAGE.	PAGE.	i PA	CO
Swinging Tree Insulator Cutter's 434	Switches, Vertical 16 Swivel Pole Pulley, Cutter's 187 Swivel Pole Pulley, Fletcher's 188 Syracuse Electricians' Drill Bit 395	Twist Bulb Shade. Twist Melon Bulb. Twist Rib Flat Reflectors. Twist Stalactife Shades. Twist Straight Flat Reflectors. Twisted Wife Clips for Brass Armored. Twisted Wife Clips for Brass Armored. Twisted Wife Clips for Brass Armored. Two-light Glatips. McIntiffe. Two-light Switch. Two-light Switch Switch. Two-light Wall Bracket. Two-light Wall Bracket. Two-light Switch Switch. Two-light Switch. Two-light Switch. Two-light Switch. Type A. Bay Knife Switch, Unmounted. Type B. Raby Knife Switch, Unmounted. Type B. Raby Knife Switch, Mounted. Type D. Raby Knife Switch, Mounted. Type E. Baby Knife Switch, Mounted. Type E. Western Electric Knife Switch Type E. Western Electric Knife Switch, Type D. Western Flectric Knife Switch,	21
Switch Are Light Line. 162 Switch, Automatic Circuit Controlling. 161 Switch, Bell Hanger and Cut-off Com- bined 180 Switch Block 27	Swivel Pole Pulley, Cutter's 187	Twist Melon Bulb	21
Switch, Antomatic Circuit Controlling 161	Swivel Pole Pulley, Fletcher's 186	Twist Rib Flat Reflectors	22
Switch, Bell Hanger and Cut-off Com-	Syracuse Electricians Drill Bit 395	Twist Stalactife Shades	21
Switch Plank 97	т	Twisted Wife Cline for Proce Armored	22
Switch Box for Cutter and other Flush	•	Condult	3.1
Switch Box for Cutter and other Flush 341 Switch Box for Iron Armored Conduit 341 Switch Connections, Bergman 54 Switch, Cutoff 180 Switch, Cutoff 22 Switch, Double Fole Cutout 73 Switch, Herrie Clock 181 Switch, Isolating, for Are Circuits 192 Switch, Marining, For Are Circuits 192 <	T for Brass Armored Conduit 345	Twisting Claimps, McIntire	38
Switch Box for Iron Armored Conduit 341	T for Plain Conduit	Two-Circuit Switch	- 2
Switch Connections, Bergman 54	T. H. Attachment Plugs 101	Two-light Electric Brackets	27
Switch, Cutoff 180	T. H. Base Sockets and Receptacles 33 to	Two-light Wall Bracket	27
Switch, Dimmer 29	91, 96 to 100	Two-point Arc Light Line Switch	16
Switch, Double Pole Cutont	Tablet Board, Bryant Forcelain 70	Type A, Baby Knife Switch, Mounted	. 3
Switch Legisting for Ara Circuits 162	T. H. Base Sockets and Receptacles, 85 to 91, 96 to 100 Tablet Board, Bryant Porcelain 70 Tablet Board, Militiple Circuit. 60 Tachometer, Standard Portable. 273 Tallor Irons. 314, 319 Take-up Reel. 356, 331 Take-up Reel. 356, 389 Tape Tamping Bars 355, 389 Tape Tape Lines. 399 Taped Silk Covered Incandescent Lamp Cod. 489	Type A. Baby Knife Switch, Unincunted.	3
Switch Marine 100 200	Tullor Irone 911 910	Type B, Daby Knife Switch, Mounted	3
Switch or Outlet Boxes for Iron Armored	Take-up Reel 376 391	Type C. Raby Knife Switch, Chinolined.	3
Conduit	Talley Register 399	Type C. Baby Knife Switch, Unmounted	. 3
Switch, Western Electric Bullding 158	Tamping Bars	Type D. Baby Knife Switch, Mounted	3
Switchboard Bolts 154	Tape 407	Type E, Baby Knife Switch, Mounted	. 3
Switchboard Brackets154, 276	Tape Lines 399	Type E, Baby Knife Switch, Unmounted.	3
Switch or Onitite Boxes for Iron Armored Conduit. 342 Switch, Western Electric Building. 153 Switchboard Boils . 154 Switchboard Brackets. 154, 278 Switchboard Pittings. 143 to 154, 157 Switchboard Instruments. 245 to 253, 259, 250, 271, 486 to 488.	Taped Silk Covered Incandescent Lamp	Type E. Western Electric Knife Switch	
Switchboard Instruments, 015 to 052, 050	Cord	Type Q, Western Electric Knife Switch	3
5witchboard Histruments 245 to 253, 259,	Pottleset Western Union Double	Type Q. Western Electric Knife Switch	3
Switchboards 131 135 141 to 146 156 499	Tolograph Pliane Hall 201	บ	
Switches for Electric Motors, Automatic.	Telephone Cross Arms 454	_	
131, 132	Petiticoat 421 Telegraph Pijers, Hall 384 Telephone Cross Arms 451 Telephone Brackets, Western Union 451	Uhlich Soldering Pot Underload and Overload Circuit Breaker Underwiter's Wire Universal Automatic Rheostat, Leonard	400
Switches for Voltmeters 272	Tenax Tape 407 Tenax Splicing Compound 407 Terminal Elbows for Brass Armored Con-	Underload and Overload Circuit Breaker	5
Switches, Knife	Tenax Splicing Compound 407	Underwriter's Wire	483
Arc Light Line Switches 162	Terminal Elbows for Brass Armored Con-	Universal Automatic Rheostat, Leonard	
Robin 131, 132	dur	Universal Enamel Eield Rheostat, Amer-	12
Datoy	Terminal Junction Boxes for from Ar-	Universal Enamel Eleid Kneostat, Amer-	
Circuit Breakers Magnetic 55 to 59	Terminale Shattanut Conner 111	Universal House Bracket	12
Swifehboard Instruments. 245 to 253, 259, 260, 271, 480 to 498. Switchboards. 134, 135, 144 to 146, 156, 499. Switches for Electric Motors, Automatic Switches for Voltmeters. 272. Switches, Knife Aughl Line Switches 131, 132. Aughl Line Switches 141, 132. Baby 32 to 34. Bergman 4.64 to 53. Circuit Breakers, Magnetic .55 to 59. Elevator. 46	Terminals Wire 151 150	Universal Speed Indicator	7
Elevator	dut	ican	33
Fuse Box Combined 53	Test Jack 157	Universal Trimmer for Brass Armored	
Hill41 to 45	Test Jack 157 Tested Fuse Links, Shawmut 113	Conduit. United States Attachment Plugs. United States Attachment Plugs. United States Key Sockets. United States Keyless Sockets. Upright Locomotive Oilers. Utility Shades. 224,	350
Mounted Baby Knife33, 34 Quick Break, Western Electric 37	Tested Fuse Ribbon	United States Attachment Plugs	100
Station 39 to 46	Tested Fuse Wife	United States Key Sockets	53
Style H 39 40	Station 240 to 279	Unright Logomotive Oilers	416
Type A. Baby, Mounted	Testing Base, Bryant 96	Utility Shades 994	-0-, 5
Type A. Baby, Unmounted 32	Testing Sets	caming communications and a second	
Type B, Baby, Mounted 38	Theater Arc Lamps, Kreuger 192	V	
Type B, Baby, Unmounted 32	Theater Dimmers		
Type C. Baby, Mounted	Thinner for Insulac 412	Vaporproof Globes	238
Type D. Baby, Mounted 34	Threaded Brackets Ventilated testo tes	Vanghan's Patent Angure	271
Type E. Baby, Mounted 34	Three-point Arc Light Line Switch 162	Ventilated Thread Brackets 469 to	4/15
Type E. Baby. Unmounted 33	Three-point Switches 14, 26	Ventilating Fan Speed Controllers	122
Type E, Western Electric 35, 36	Three-way Switches	Ventilating Outfits, Direct Coupled	504
Type Q 37	Three-wire Switches	Victor Combination Soldering Torch,	40.
High Tension Service Switch and Hi Fuse Box Combined 41 to 53 Min Min Fuse Box Combined 41 to 54 Min Min High State 1 to 15 to	Tio Wrongh Steel	Victor Split Insulator	132
Switches Spap	Tile Rolt and Lock	Vitrified Clay Tubes	346
Accessories for C. S. 24	Tin Lineman's Torch . 406	Vitrified Terra Cotta Conduit McRoy	357
Anchor	Tin Reflectors, Flat 227	Volt Ammeter	244
Automatic, C. S 22	Tin Shades 227	Voltmeter Multiplier	255
Bryant	Tin Upright Locomotive Oiler 416	Voltmeter Switch	272
Cast Iron Pockets for 27	Toggles 170	Voltmeters. 140 to 243, 248 to 250, 253 to	
Chandelier, Bryant 25	Tool Rag	Bristol Recording	200
China	Tool Belt 399	Differential	253
Commutation, C. S 22	Tool Coupling for Brass Armored Conduit 353	High Range	255
Dial	Tools	Inspectors	256
Dimmer 29	Tools, Digging	Millivoltmeter	243
Double Pole 10 to 12 15 17 21 22	Tools for Seeling Motors	Portable	206
Dimmer 29 Door and Closet 31 Double Pole 10 to 12, 15, 17, 21, 23, 25 to 27, 30 Double Pole Ratchet 10 Edison 15	Fig. 1	Vaporproof Globès. Varnish, Frosting. Varnish, Frosting. Ventilated Thread Brackets. Ventilated Thread Brackets. Ventilating Fan Speed Controllers. Ventilating Fan Speed Controllers. Ventilating Outfits, Direct Coupled. Victor Combination Soldering Torch. Victor Split Insulator. Viened Clay Tubes. Virinfed Terra Cotta Conduit, McRoy. Volt Aumeter Volt Aumeter Volt Aumeter Voltmeter Multiplier. Voltmeter Switch. Voltmeters Switch. Voltmeters Switch. Voltmeters. Big. Secondary Split	250
Double Pole Ratchet 10	Torches, Soldering 402 to 406	Station	249
Edison, 15	Transfer Plugs		
Edison Three was	Transformer, Adjustable 269	Weston 241 to 243, 248 to 250, 254 to	256
Flish 11 cc-way 16	Transformers for Power Transmission 501	Weston. 241 to 243, 248 to 250, 254 to Working.	257
Flush Plates 13 18 to 20 98	Whener to rower transmission,	Vom Cleffe Salising Clauses	303
Four-point, Anchor 26	Transformers Pressure Reducing 497	Vom Cleff's Vises	377
Four-way	Tree Insulators	Vulcan Screwdrivers.	393
Four-wire, C. S 22	Tree Trintmers 387	Vulcan Torch	405
Glbbs	"Tree " Wire Holder 435	Vulcanite Lamp Cord	490
. Hart	Tri-colored Lamps 303	Vulcanized Fiber Rod	410
Heat Regulating 30	Linivareal armored Conduit.	Vulcanized Fiber Silvet	411
Key 27	Trimmers Cutter's Span Rope 189	vincanized Fiber Finning	411
Lazyman's 11	Trimmers, Tree	W	
LOCK	Triple Braid Weatherproof Wire 487		
Now York	Triple Petticoat Insulator, Locke 424	"W" Cleats	430
No. 9	Tubes Bracket 445	W. F. Soldering Salts	284
P. & S. China,	Tubes, China Floor 214	Wagner Company's Material 406 to	504
Paiste	Tubes, China Wiring	"W" Cleats. W.E. Ceiling Clusters W.E. Soldering Salts Wagner Company's Material	
Perkins	Tubes, Deck 200	mission500.	501
Putabet Daubla Dala	Tubes, Vitrified Clay 445	Wall Boxes24,	102
Single Pole 9 to 19 11 12 17	Tilbes, Wildow	Wall Brackets 204, 205, 276 to 279, 281,	459
20 to 23, 25 to 27, 30, 31	Tuerk Alternating Current Calling For	Wall Plates or Floring Bracket Dooks	102
Special 99	Motor Motor	Wall Sockets and Recentagles 85 to	98
Three-point		The state of the s	
	Turkey Neck Brackets 274	Walsh's Blow Torch	41)6
Title C-Willy	Turkey Neck Brackets	Walsh's Blow Torch Warmer, Electric Foot	$\frac{406}{314}$
25 to 27, 30 Double Pole Ratchet 10 Edison. Double Pole Ratchet 14 Edison Firsh Pocket 14 Edison Three-way. 14, 20 to 2 Edison Firsh Pocket 15 Edison Firsh Pocket 15 Edison Firsh Pocket 16 Edison Firsh Pocket 17 Edison Firsh Pocket 17 Edison Firsh Pocket 18 Edison Firsh Pocket 19 Edison Firsh Pocket 18 Edison Firsh Pock	Transformers, Are Light 501 Transformers for Power Transmission 501 Transformers 500 501 Transformers 500 501 Trea Insulator 432 432 Tree Treamers 433 432 Tree Treamers 435 432 Trincored Lamps 355 535 Trimmer for Brass Armored Conduit 355 Trimmers, Cutter's Shap Rope 487 Triple Perfusor 487 Triple Perfusor 487 Tubes, B. & T. White Porcelain 445 Tubes, Chine Floor 44 Tubes, Clinia Wiring 444 Tubes, Clinia Wiring 445 Tubes, Wirified Clay 445 Tubes, Wirified Clay 441 Tubes, Wirified Clay 441 Tubes, Wirified Clay 441 Tubes 441 Tubes 441 Tubes 441 Tubes 441 Tubes 444 Tubes 444<	Wall Plates. Wall Plates or Electric Bracket Backs. Wall Sockets and Receptacles	406 314 455

FAG	F.
Waste Cans, Galvanized Oil 4	14
	99
Waterproof Paper Lann Shade Cart-	
wright	24
Weatherproof Globes 9	38
Weatherproof Sockets and Receptacles	uc.
87 89 92 to 98 1	00
Weatherproof Wire. 487 488 4	91
Wellington Torch . 4	0.2
Wertheim Carbons	74
Western Clumbers 386 3	11
	40
Western Electric Arc Lamps	93
Western Flortric Building Switch	58
Western Electric Company's Heater	16
Western Electric Company's Heater	-
Western Electric Fau Motors 358 to 3	91
Western Electric Fan Motors 358 to 3	1)4
Western Electric Kuife Switches 35 to	37
Western Electric Mast Arms 1	90
Western Electric Non-Sparking Brushes 141, 1 Western Electric Quick Break Knife	
	42
Western Electric Quick Break Knife	
Switch	37
Switch. Western Electric Voltmeter 2	4:1
Western Electric Windlasses 1	84
Western Union Double Petticoat Teat In-	
sulator	21
Western Union Glass Insulators 4	17
Western Union Standard Pins 4	51
Western Union Telephone Brackets 4	51
Westfield Grip	50
Westinghouse Attachment Plugs	01

PAGE	PAGE.
Westinghouse Sockets and Receptacles	Wire, Connectors
83 to 85, 89 to 96, 96 to 100	Wire Cutters
Weston Circuit Tester and Ground Detec-	Wire, Fishing
tor	Wire, Fuse
Weston Direct Current Voltmeters 254 to 256	Wire Guards
Weston Illuminated Dial Station Amme-	Wire Holders
meters	Wire Meter for Counter 352
meters 245 to 247 Westen Illuminated Dial Station Volt-	Wire Peeler 394
ineters	Wire Reel and Meter 302
Weston Portable Galvanometer	Wire Stretchers
Weston Portable Standard Voltmeters	Wire Terminals 151, 152
for Alternating and Direct Current	Wire Tool, Howe's Improved 390
Service	Wiring Insulators 431
Westen Pertable Wattmeters	Wiring Pendants, Fletcher's 487
Weston Potential Indicators	Wiring Tubes, China441 to 443
Weston Pailway, Isolated Plant and	Wood Attachment Plugs100, 101
Feeder Voltmeter	Wood Cleats 440
Weston Standard Direct Reading Mil	Wood Handle Tamping Bars 359
Ammeters and Ammeters 244	Wood Mats
Westen Standard Portable Direct Read-	Wood Moulding 446 to 448
ing Voltmeter 241, 242	Wood Poles 456
Wheatstone Bridge	Wood Risers 436
White Core Wire, Grimshaw467, 468	Wooden Carrying Cases
White Core Wire, Habirshaw, 466	Worsted Incandescent Lamp Cord 489, 490
White Core Wire, Safety	Woven Wire Brushes, Perfection139, 140
White Porcelain Tubes, B. & T 445	Wrenches
Whitney Ammeters and Voltmeters 257 258	Wurt Lightning Arresters 137. 133
Windlasses 184	~
Window Reflector, Frink's Special Patent 232	×
Window Tubes 441, 442	X-Ray Silvered Glass Reflector 221
Wire	
Wire Cline for Prace Armond Conduit	Z
Wire Clips for Brass Armored Conduit, Twisted	Zone Lamps
I w 1510d 343	Conc. Pamba wa

PAG	GE.
Wire, Connectors	443
Wire Cutters	397
Wire, Fishing	355
Wire, Fuse	
Wire Guards 202,	239
Wire Holders 153, 432, 434 to	136
Wire Meter for Counter	392
	394
	392
Wire Stretchers	380
	152
Wire Tool, Howe's Improved	390
Wiring Insulators	431
	437
Wiring Tubes, China	
Wood Attachment Plags100,	101
Wood Claste	4.0
Wood Cleats. Wood Handle Tamping Bars	359
Wood Mats	102
Wood Moulding	448
Wood Poles	456
Wood Risers	436
Wooden Carrying Cases	258
Worsted Ineandescent Lamp Cord489,	
Woven Wire Brushes, Perfection139,	140
Wrenches	393
Wurt Lightning Arresters	138
wart Eighting Arresters	103
×	
X-Ray Silvered Glass Reflector	991
ie maj omercia omis micron	
	







