CATALOGUE No. 14

Great Cash Order House.

GALV. WIRE

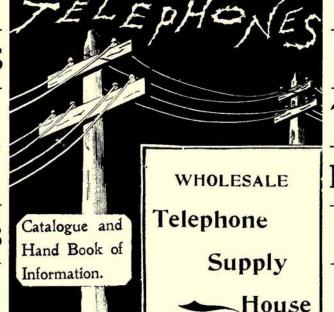
OAK BRACKETS

OAK PINS

CROSS ARMS

GLASS INSOLATORS

CEDAR POLES



TELEPHONES

RECEIVERS

TRANSMITTERS

MAGNETO BELLS

BACK BOARDS

BATTERIES

Farr Telephone and Construction Supply Co.

Farr Telephone and Construction Supply Co.

(INCORPORATED)

C. W. FARR, PRESIDENT.

N. B. FARR, VICE-PRESIDENT.

R. J. CRAM, SECRETARY AND TREASURER, DETROIT, MICH.

E. W. HURST, GENERAL MANAGER

TERMS AND INSTRUCTIONS.

Our Prices are Low.

And based upon CASH SALES. No accounts opened unless first-class reference is furnished.

All accounts must be paid in thirty days.

Goods sent C. O. D. only when Express Charges are guaranteed.

The charges for return money on C. O. D. consignments are always added.

Goods sent C. O. D. by freight consigning same to ourselves. Collecting the bill through Bank with bill of lading and order for delivery attached to draft.

Actual Cost of Boxing.

Will be charged on goods, unless cash accompanies the order.

Guarantee

Every set of Telephones furnished by us is guaranteed to be just what we claim for them and to work satisfactorily or money refunded.

We receive no returned goods unless we are notified and saction same.

In ordering, please state how goods are to be shipped, if by freight or express, give name of route.

In remitting cash for goods to be sent by mail, send enough to pay postage.

No goods will be shipped C. O. D. to persons unknown to us, unless sufficient amount accompanies order to pay transportation charges.

We pack all goods with the utmost care, and receipts are obtained for all goods forwarded "in good condition," and our liability ceases when goods are delivered to carrier.

Persons having no account with us must send cash with order, or satisfactory reference to justify us in opening an account.

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FARR TELEPHONE & CONSTRUCTION SUPPLY CO. CHICAGO, ILL.

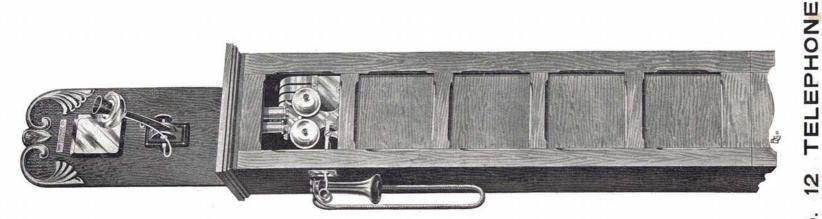
DESCRIPTION OF OUR TELEPHONES

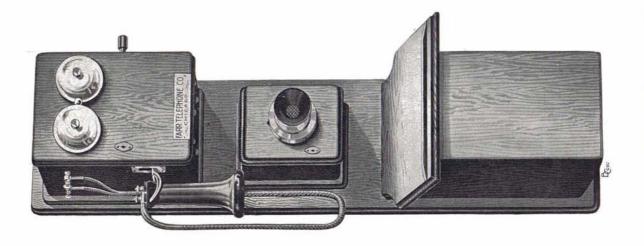
3333006666

- No. 1 Telephone—Are good Exchange instruments. Series. No. 3 Magneto Bell. 15,000 ohm.
- No. 2 Telephone-For Exchanges and Private lines, etc. No. 3 Magneto Bell. 15,000 ohm.
- No. 3 Telephone-Are used for Factories, Mines and Private lines. No. 3 Magneto Bell.
- No. 4 Telephone-Are Battery Call, for Interior use. Lines of 300 to 500 feet.
- No. 5 Telephone—This Telephone is same as No. 4 only. Has a Battery Box attached.
- No. 6 Telephone-For Exchange use. Series. No. 3 Magneto Bell. 15,000 ohm.
- No. 6a Telephone—For Exchange use. Series. No. 1 Magneto Bell. 25,000 ohm. Solid Back Transmitter. New Improved Double Pole Receiver. High grade. Guaranteed.
- No. 7 Telephone Bridging-10,000 ohm coils. No. 3 Magneto Bell. 15,000 ohm.
- No. 7a Telephone Bridging—1600 ohm coils. No. 1 Magneto Bell. 25,000 and 40,000 ohm. Solid Back Transmitters. Improved Double Pole Receiver. High grade. Guaranteed.
- No. 8 Telephone-Good Exchange instrument. Series. No. 3 Magneto Bell. 15,000 ohm.
- No. 9a Telephone Bridging-1600 ohm coils. 50,000 ohm. Special Generator.
- No. 10 Desk Phone-For Exchange use. For Bridging Lines or Battery Call.
- No. 12 Telephone Bridging—For Long Toll Lines. 70,000 ohm. Special Generator. Solid Back Transmitters. Double Pole Receiver. With three Fuller batteries.

3333006666

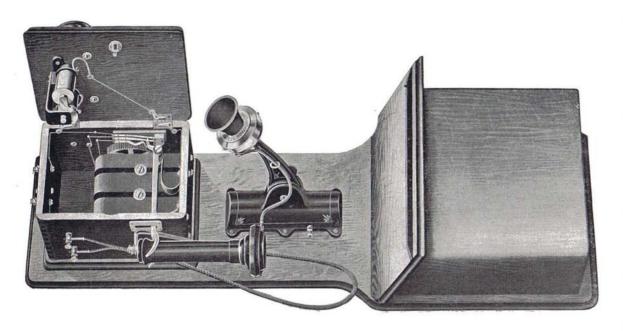
Our Telephones are High Grade piano finish; wood, Oak or Walnut. Complete with batteries at prices quoted.





No. 1 TELEPHONE

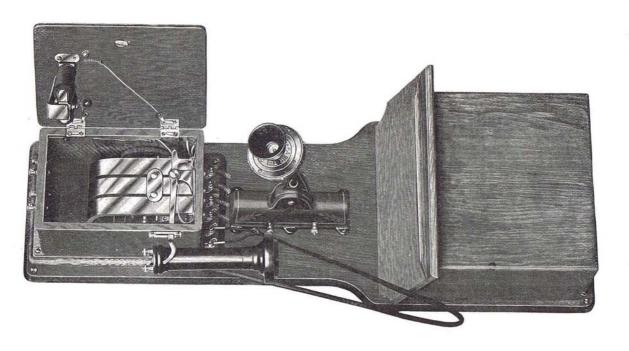
For Description see Page 2



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ARE REPRESENTED IN ABOVE CUT

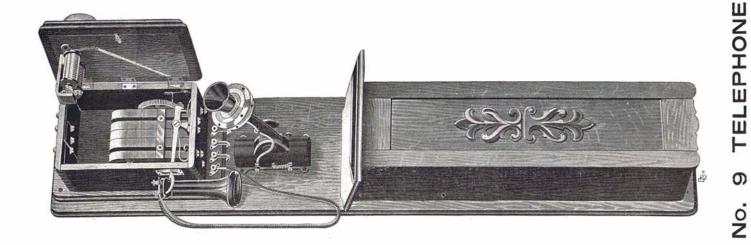
See Description Page 2



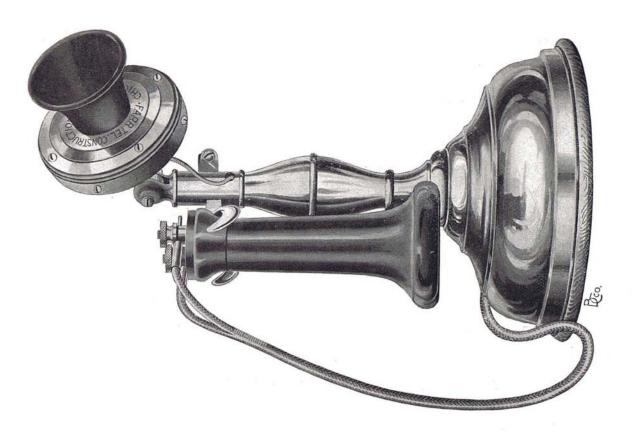
TELEPHONE AND 6A

ARE REPRESENTED IN ABOVE O

See Description Page 2



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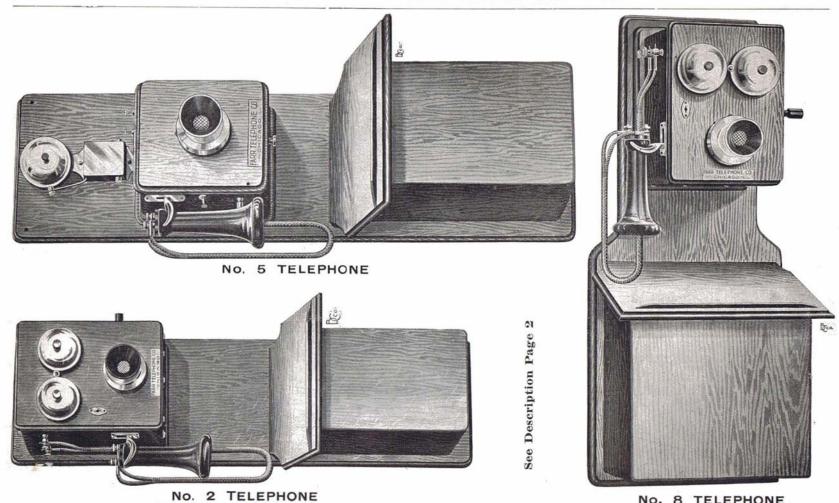


No. 10 TELEPHONE

See Description Page 2

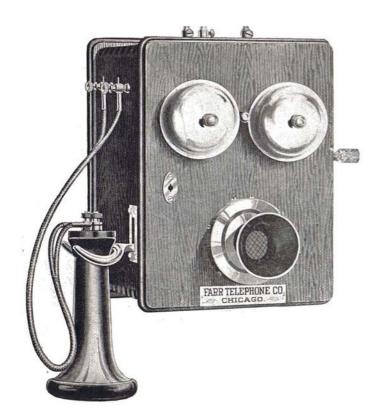


VERY STRONG MAGNETS.

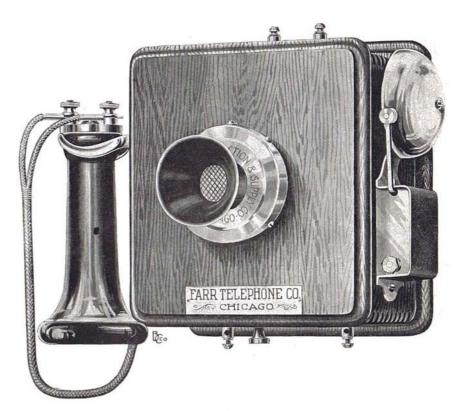


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No. 8 TELEPHONE



No. 3 TELEPHONE



No. 4 ECHO TELEPHONE

See Description Page 2



No. 3 SOLID BACK TRANSMITTER



No. 2 BRASS FRONT TRANSMITTER



No. 1 ALUMINUM CASE TRANSMITTER

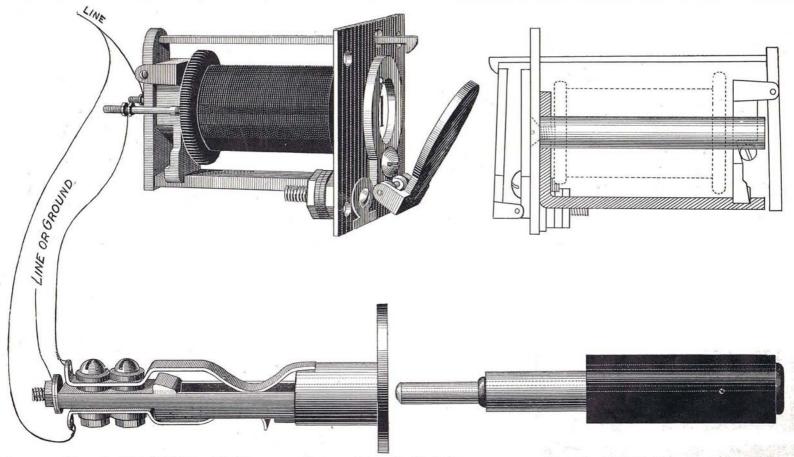






PARTS OF SOLID BACK TRANSMITTER No. 3

The only Aluminum Diaphragm Transmitter made. Beats them all,



No. 4 METALLIC JACK

No. 3 DROP

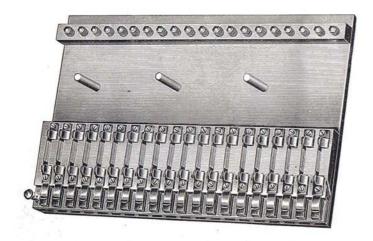
The above Drop can be wound for Series or Bridging Lines.

The No. 4 Jack can be used for Metallic or Grounded Lines.

No. 3 DROP

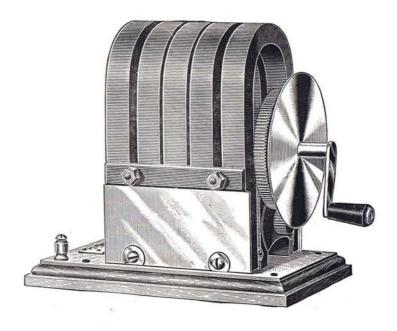
Very sensative.

The lower Magnet is connected with Core.



No. 4 DISTRIBUTING

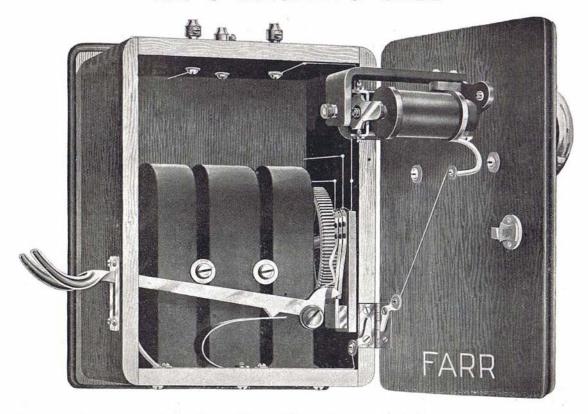
Board and Lightning Arrestor. Every Exchange should have one.



No. 4 GENERATOR

For Switch Boards. 50,000 ohm.

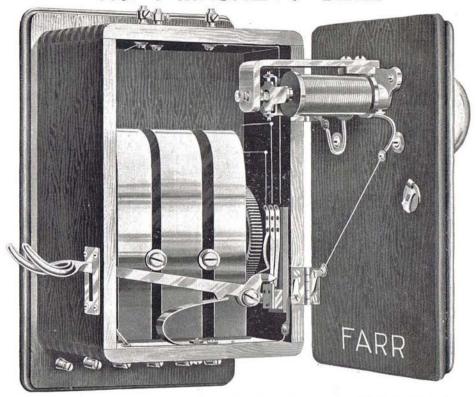
No. 3 MAGNETO BELL



Wide, Clear, Strong Magnets. 15,000 Ohm.

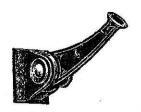
PRICE, \$7.00

No. 1 MAGNETO BELL



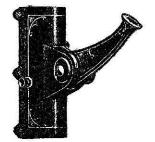
High Grade, Wide Gear Magnets, 6 inches high, Nickel Plated This Bell is made for Series or Bridging

PRICE: SERIES WOUND 25,000 OHM, \$11.00. BRIDGING 1,600 OHM COILS. 25,000 OHM, \$14.00.



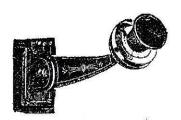
No. I PONY ARM,

Price, \$1,35



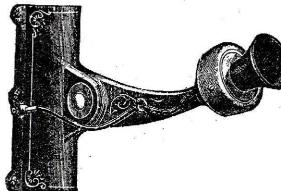
No. 2 LONG DISTANCE ARM, Price, \$1.50





No. 1 Pony Arm and Aluminum Transmitter

Price \$2.50. Price with Coil \$3.00.



No 2 Long Distance Arm with Aluminum Transmitter

Price \$3.00. Price with Coil 250 Ohms \$3.50

We guarantee our Transmitters to be the best on the market.







. 2.

No. 1.

Carbon Disc for Transmitters.

Price 10c each.

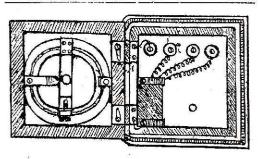
Granular Carbon, price per oz.

- 300



Trans. Box. Price 80c.





Blake Transmitter,

Complete in box with coil, price each - Blake Transmitter Box in walnut or oak

\$3.50 .70

RECEIVERS

Hard R D Pole, Hard Rubber Single Pole Composition Single Pole,





RECEIVER SHELLS.

Hand Rubber.

Composition

Price, 80 Cts.

Price. 60 Cts.



RECEIVES MAGNET AND BOBBIN Price, 60 Cts.

TRANSMITTER.

Goose Neck.

Price, 10 in. . \$1.50 Price, 4 in. - 1.40





Receiver Binding Post. Price, each 6 Cts.

RECEIVER BOBBIN.

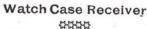
Wound with Silk Wire, 75 Ohms

Price 20 Cts



Receiver Cords

Worsted, 3 ft 30c Worsted, 2 ft. 24c Silk 3 ft. 60c



Double Pole. Very strong Magnets. Best American Make.

Price \$2.00.



Watch Case Receiver

CHANG

Single Pole.

00000

Price - - \$1:10

Repeating Coil

Price, Imported \$16.00; our make \$7,00.



Induction Coil.

in. long.





Magnet Coils and Ringer Coils.

Price, Pair - - - \$1.00



Long Induction Coils

4-inch long, 250 Ohm. Cotton	\$.80
5-lack long, 500 Ohm, Cotton 3-lack long, 250 Ohm, Silk	1:50
4-inch lung, 500 Ohm, Silk	2.00

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Extension Bells

Price 100 Ohm - - - \$3.50 Price 500 Ohm - - - 5.00 Price 1,000 Ohm



Magneto and Extension Bell

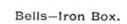
Boxes with Lock and Hinges.

Bell Boxes, Price - \$1.00 Extension Bell Boxes, Price, 80c



Bells-Wood Box.

Price	24	inch	-			-	\$1.00
**	3	66		-	•		1.20



Price 2½ inch - - 60c



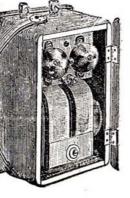
Testing Bells For Linemen

Price 10,000 Ohm - \$ 8.00 Price 15,000 Ohm

Price 20,000 Onm 9,00

Price 25,000 Ohm

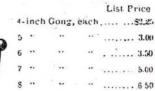
Price 50,000 Ohm

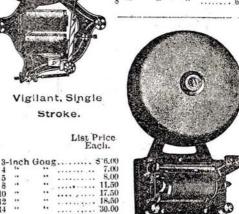


Lungen Bells.

14-in. Gong,	Nickel	Plate,	
each			75c
2-in. Gong,	Nickel	Plate,	
each			80c
2½-in. Gong,	Nickel	Plate,	
onah		- 8	70-









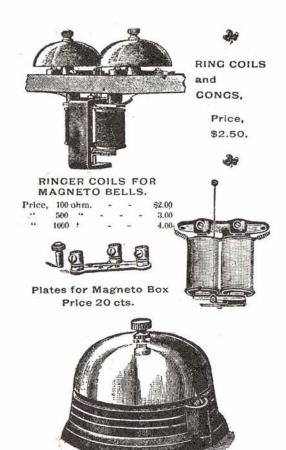


BUZZER.

Price.. 80 cts.



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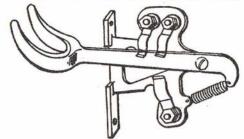


MONITOR BELL.



Hook No. 1 With Springs,





Eureka Hook, No. 2
Easy to put on; reliable. - Price, 80 cts.



Long Lever Hook, No. 3

Price, \$1.00

Price, 80 cts.



Stationary Hook.

Price 50c



Back Boards. Walnut or Oak.

 Price 30-in. Walnut single
 - \$1.80

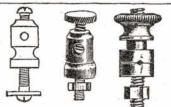
 Price 30-in Oak. single
 - 1 70

 Price 24-in Walnut, single
 - 1 70

 Price 24-in Oak, single
 - 1.60

 Price 30-in. Walnut, double
 2.20

 Price 30-ir. Oak, double
 - 2.00



Thumb Screw, Nickel, Price 10c.

Brass, Wood Screw, Price 12c.

Lock Nut, Price 15c.

Switch Board

Ground or Metalic Circuit



Ground Circuit

Price \$5.00 per drop.



Metalic Circuit

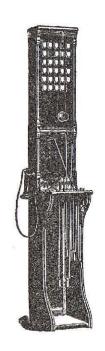
Price \$6.00 per drop



Boards 10 drops or less add 50 cts. per drop. With operators set



SWITCH BOARD WEIGHTS.
Price each 30c.





SWITCH BOARD.....

to stand on loor or fasten on wall, or set on table made to suit customer in regards to shape.

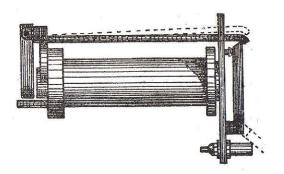
We guarantee our Boards to give satisfaction-



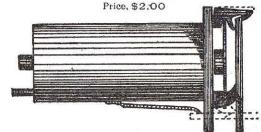


SWITCH CORD

Linen, Single	Price.		•				20c yard
Silk, "	- 6	-		-		•	20c 31
Silk, double	1.6		0.00		OH:		30c 16
Worsted, Sing	le Price					4	16e '



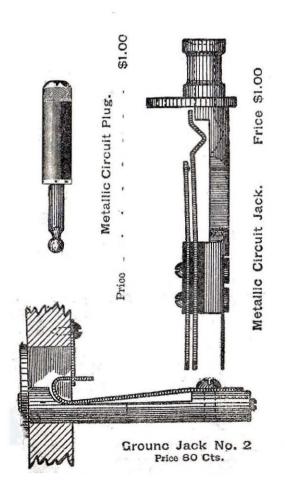
Switch Board Drop, No 1

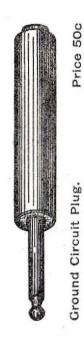


Switch Board Drop, No. 2



Ground Jacks, No. 1
Price, 40 Cts.







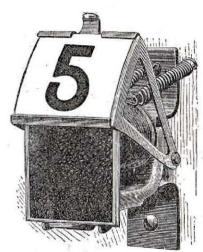
Price - - - \$4 00 Price with Regeiver 6.00

Mouth Piece for Transmitters

Male or Female Thread.

Price 16 Cts.



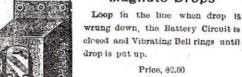


Lock Gravity Drop

Cannot be jarred down

Price, \$1.50

Magneto Drops



Battery Drops

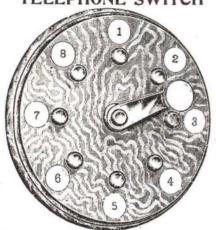
Loop in on line when push is pressed Lever falls and closes Battery Circuit, and rings Vibrating bell until Lever is put up.



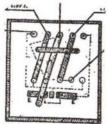
Price, \$2,00

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TELEPHONE SWITCH



Price, 4 point switch... Additional points, per point.



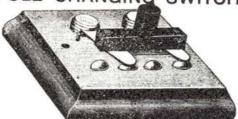
Pole changing switch 3 figures.

Price.

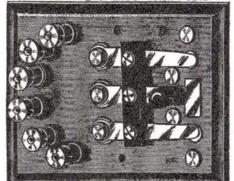
Western Union Lightning Arrester

Price\$1.50

POLE CHANGING SWITCH.



Price, Small, \$1.50-No Posts Price, Large, 2.00-With Posts



Three Fingers



Price \$5.00

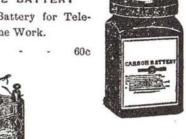
Switches

.....50c

Wood Base Price, 1 point 18c LACLEDE BATTERY

A Carbon Battery for Telephone Work.

Price.



LECLANCHE BATTERY

Price 60e.



SAMSON BATTERY

Price



GRAVITY OR CROW FOOT BATTERY *

Price, 5x7 Complete	€1.10
Price, 6x8 Complete	1 50
Price, 5x7 Jar only	.30
Price, 6x8 Jar only	.35

TCI Library - http://www.telephonecollectors.info/

FARR DRY BATTERY.

Good, Reliable Battery.

Price - - 46c each

Price, dozen lots, 42c each





EUREKA DRY BATTERY

Warranted to be Long Lived

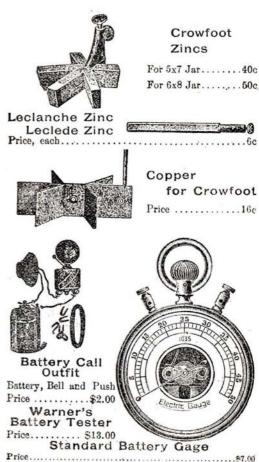
Price, - - 50c each

Price, dozen lots, - 46c each



MESCO DRY BATTERY Price, 46c each.





COMMON ECCENTRIC CLAMP.



HAVEN PATENT STEEL ECCENTRIC CLAMP.



Compound Eccentrics.

		CLAMP.
For hard drawn		
copper wire. No. 6 B. & S. and	¥ 1570	
finers:		

No.		Price.
371	Light, for No. 4 B. & S. and finer	\$5.00
372.	Extra Heavy, for No. 4 to 000 B. & S	7.50



Western Climbers.	Eastern Climbers,
Eastern	Pattern, Price,

			The Real Property lies	A
				Price.
nber	s, onl	y	per pair,	\$3.50
	•1		**	1.70
	**		per set,	1.20
W	estern i	rattern		rice.
nber	s,only	·	per pair,	\$2.70
	4.4		•1	1.60
			per set,	1.30
	nber " " Wabers	western in the state of the sta	Western rattern	mbers, only per pair, per set, Western rattern per pair, per pair,

Splicing Clamps or Connectors.



CLAMP.

309. Fitted for McIntyre sleeves on 10, 12, 14 B, & S.
 and finer iron wires on the other side. \$3,00
 310. Same as above only fitted for American sleev 3,00

Come-Along "Eccentric.

Regular size for No. 9 line \$0.75

Large " " 3 " 1.65

Extra large size for No. 0000 1.90

Straps only 1 00

Side Cutting Pliers.



The above will be furnished with insulated handles at an extra charge of 25 cents each, net.

Diagonal Cutting.



FRY SPLICING PLYERS.

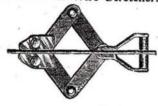


| Price. | Size, 8 inches, plain | each, \$2.50 | each, \$2.50 | each, \$2.50 | each, \$2.75 | each, \$2.



Size, 4 inches, plain each, \$0:50
" 5 " " " .60

The Parallel Wire Stretcher.



No. 0 Telephone size....each, \$4.50 No. 1. For No. 0 wires and finer....each, 5.00

VISES.

 $5\frac{1}{2}$ in., extra quality..each, \$1.90, $5\frac{1}{2}$ ". " " copper face.....each, 2.70

Champion Screwdrivers.





The Anti-Hum

Humming of telegraph wires easily and cheap ly remedied. Price 50c:



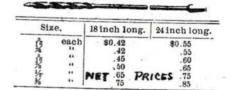
BELL WIRE STAPLES.

Size, ½ in. long.

1 lb. p'kage, \$0 30,

LONG TWIST DRILLS.

For Bell Hangers, Telephone and Telegraph Work.





Competition, % inch wide, per roll ... \$0.24 Grimshaw, " " 40 Pure rubber, " " " 59



Complete with eight drills of different size, each, \$3,50

Tree Trimmers.

Price.
Trimmer, only each, \$3.00

ELECTRIC HOT BLAST BLOW TORCH



Weight 2 lbs. Capacity 1 pint. Thoroughly tested.

LINEMAN'S TORCH.

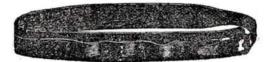




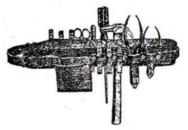
LAG BOLTS.



CROSS ARM BRACES.



LINEMAN'S BELT.



LINEMAN'S BELT.





Glass

Insulators
Pony,
Price each, 4 cts.
or
\$28.00 a thousand

Porcelain Knobs

For use on Building or Cross Arms.

Price, No. 4, each 2c, or \$16.00 per thousand.





BRACKETS, OAK.
Price, each 4c, or \$26.00 per thousand.



Pins Oak Price, each 2c, or \$14.00 per thousand.



Cross Arms

Price: Each, 4 pins, 40c: 6 pins, 60c; 8 pins, 80c; 10 pins, \$1.20. Write for quantity price.

Painted Cross Arms.



Above Arms of best Michigan white pinc. Special prices



***	- Distance of the last of the	THE RESERVE OF THE PARTY OF THE	-
		No 2671 . No. 383	+
	2052	Standard, 1‡ inch, Painted Oak Pin. ner 1,000. In crates of 500.	18.00
	2053	Standard, 14 inch, Painted Oak Pin, per 1,000 In crates of 500.	18.00
	2054	1½ inch Locust Pin, not painted, per 1,000 In crates of 500.	30.00
	2055	14 inch Locust Pin, not painted, per 1,900 In crates of 500.	30.00
	2671	Brown Duplex Pin, 11 inch, Oak, per 1,000	25.0u
	2672	" " 1½ " Locust, "	35.00
	3154	Corner Pin, 1; Inch, Oak,, cach	.07
	3155	" " 14 " Locust "	:10
	3394	14 inch Solid Iron Pin, each	.20

WESTERN UNION STANDARD STEEL CROSS ARM PIN.



Brackets.



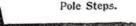
Brown duplex, painted

From Chicago stock...per 1,000, \$50 00



Extra heavy oak, painted.

From Chicago stock..per 1.000, \$21.00 factory...... " 20.00



Diameter % inch, length 91/2 inches, plain ... per 100, \$4.00
" 91/6 " galvanized " 100, 5.60

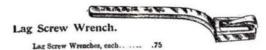
Lag Screws.





Washers.

† inch Iron Washers, per 100.... .15



Cross Arm Braces.

Standard	Cross Ar	m	Braces,	per pair	.20
**	**		**	complete, with lag	
screws,	carriage	bo	lts and	washers, per pair	.30



Punched for 1/2 inch lag screws at one end and 3/4 inch at the other.

IRON TURNBUCKLES.



Outside diameter of thread.

Length in the clear between heads. Galvanized.

\$ inch. 6 inch. each, \$ 1.30



Size 1/2x12 For suspension and guy wires. each, \$0.08



Wood Poles.



P. & S. Circuit Breaker.



Carriage Bolts.



Turn Buckles.



Guy Clamps.



Pole Steps.

Insulators-(ilass-



REGULAR NO. 3 INSULATOR.

From Chicago stock in 1000 lots, \$50.00



DEEP GROOVE PATTERN.

From Chicago stock in 1000-lots, \$55.00



W. U. DOUBLE PETTICOAT

Price.

Chicago stock in 1000 lots \$70.00 factory in 1000 lots...... 65.00



Insulators-

DOUBLE, GROOVE PONY INSPILATOR:

From Chicago stockin 1,000 lots, \$30,00 'PONY'

GLASS INSULATOR.

From Chicago stock. 1.000 lots, \$26.00 bbl. lots, 28.00



DEEP GROOVE, DOUBLE PETTI-COAT. PONY.

telephone and light electric light wiring. Price.

BROWN'S DUPLEX **GLASS INSULATORS**

Price. Chicago stock, deep groove each \$0.09 pony each 08



Insulators-Glass-

No. 1, Glass Insulating or Break Knob.

14 inches long, 14 inches wide, \$ inch hole. 2337 Per 1,000..... 20.06

No. 2. Glass Insulating or Break Knob.



14 inches long, 2 inches wide. 4 inch hole. 233'. Per 1,000...... 30.00

No. 2837

No. 3, Glass Insulating or Break Knob.



24 inches long, 2 inches wide, # inch hole.

2334 Per 1,000 40.00

insulators-Porcelain

No. 0.





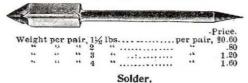
No. 1.		
	Price.	
Per 1000		



4		100	
	District Park		
7	No. 3540.	3540	4x

3540 4x1 Standard Carriage Bolt, per 100,

Soldering Coppers. Pointed.



EST STRUCTURE DESIGNATION OF STRUCTURE STRUCTU

solder		•				•	•		•				p	er	lb	\$0.30
66	•							•		٠					"	.30
66												,			12	.30

Yager's Soldering Salts.

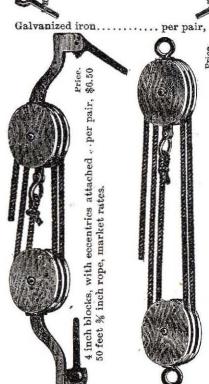
Per	r 1/2	lb.	bottle							\$0.60
64	1		2.2					٠		.75
	5	-								3 60





Price.

PULLEY BLOCKS, Galvanized iron...... per pair, \$3.75



4 inch blocks only, with eye for attaching separate clamp.
50 feet % inch rope, market rates

TOOLS. Carrying Hook Price. With swivel each, \$3 00 Digging Shovels. Pole Hole Shovels, regular, 7 fcot handle, each.... 1.90 2.10 Digging Spoons. Pole Hole Spoons, regular, 7 foot handle, each.\$1.60 " " 8 " ****** 1.75 Eureka Post Hole Diggers. Each 2.50 Tamping Bars.

Wood, 7 feet long, with iron shoe, \$2.25

Digging Bars. inch 18 lbs.) octagon tool steel \$3.00 11 " 25 " " " " " " ... CROWBARS. Either pinch or wedge point. TENERS OF THE PARTY OF THE PART Price. Weight, 6 lbs..... each, \$0.45 10 "70 Raising Forks. Length, 12 feet each, \$2.20 16 " 2.50 18 " " 3.00 Pike Poles. Length of pole, 12 feet each, \$1.60 16 " " 1.80 18 " 2.10 Pole Supporter Price. Each. Height, 6 feet .. \$6.00 71% " .. 8.00





NO. I

Table Clamp Push

Price.....\$1.00





Ligh Bronze Price 50c



2 push, price \$ 70 3 push, price 1.00

NO. 4 Bell and button Combination



Wood or Metal

Price\$3.00



Push Button Light Bronze

NO. 5



Price 70c



No. 7 Push Button

Light Bronze

Price 70c

No. 8 Push Button

Oak, Walnut or Ash

Price 20c





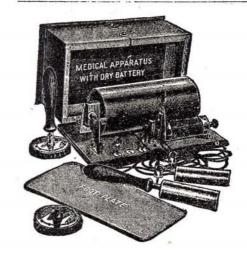
No. 9 Desk Push Rubber Center, Nickel Plated

Price 40c



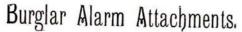
Movable Floor Push Nickel



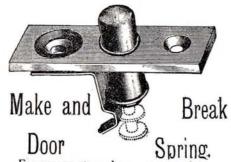


Medical Battery No. 2

Price\$10.00





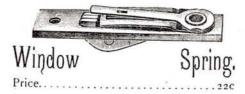


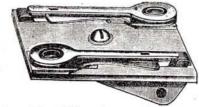
For use on store doors, etc.

Contact is made as the door opens and as it shuts, but not while it is open or shut.

Price..... 24 cents.







Double Window Spring.

Price.....400



Yale Lock.

Burglar Alarm Switch.

These switches are placed on the doors of stores, residences and other buildings connected with burglar alarm systems, so that persons having the proper keys can go in or out of the building without ringing the alarm.

Price......\$4.50



Electric Floor Matting.

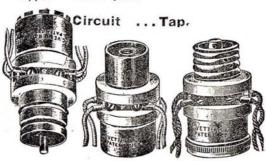
Price per square foot...........80c

Regulating Socket.

A Money Saver.

A complete regulating socket for both alternating and direct current at 110 volts with 16 c, p. lamps. Has been fully tested by the most practical electricians in the United States. It has no rival in the electrical field to day, as it can be turned up and down from 2 c. p. to 16 c. p. the same as one would operate a gas jet, and will save 40 per cent of current when turned down. Finished in lacquered brass or antique copper. Price \$4.00





Price, \$3.00



Annunciator Wire

Price,	No.	16,	60c
Price,	No.	18.	64c
Price.	No.	20.	68c



Price. No. 16, 62c Price. No. 18, 64c Price. No. 20, 66c



Magnet Wire

Price, 40 per cent. off the list.



Galvanized B B	Iron	Te	leph	noné	Wir	a ·
Price, No. 9 per lb.						80
Price, No. 14 per lb.						- 40c
Price, No. 12 per lb.					-	8c

Hand Drawn Copper Wire Price on Application.

Galvanized Fence Wire Price, No. 12 and 14, 7c lb.



Magnet Wire

No. 31—S.	Covered	Cotton							e.	.180	lb.
No. 32-S.	"	44			.,					.195	lb.
No. 33-S.	**	**				 				.240	lb.
No. 34-S.						 				.285	lb.
No. 36-S.	"	"		•						.437	lb.
No. 31—S.	Covered	Silk	A STATE OF THE PARTY OF THE PAR	THE PARTY OF THE P						. 825	16.
	0010100										
No. 32—S.	**	"						æ		. 345	lb.



No. 33-S.

Na. 36-S.

Wire Guage

.....390 lb.

Wire and Electro Magnet Winder

Price \$8.00



BANNER WEATHER-PROOF

WIRE. Prices on application.



UNDERWRITERS'

LINE WIRE.

Prices on application.

White in Color.

HARD-DRAWN COPPER WIRE

With Weather-proof Insulation.

No.	10,	В	& S	Gaug	e)
No.	12.			"		[Frices on
No.	14			**		application

BARE COPPER WIRE.



These cuts represent exact sizes

MAGNET WIRES.



Special prices on

application.

GAS FIXTURE WIRE.

For lighting gas by electricity.

GALVANIZED STEEL GUY

WIRE,

Battery Supplies.

Sal-Ammoniac.



IMPORTED.

Over 99 per cent pure.

List Price.

Blue Vitriol.



CHEMICALS, METALS, Etc.

[27] 이 HON I 프랑스 레이트 아이트 그렇게 되었다. [18] 이 HON I
Bichromate Potash, per lb
Blue Vitriol, per lb
Quicksilver (mercury), per lb
Sulphate of Zinc, per lb
Wax, for sealing batteries, per lb

IRON ARC LAMP CORDAGE.



Very flexible, for use with pulleys.

Annealed and galvanized, with hemp center.

GALVANIZED STEEL WIRE. STRAND.



MOULDED RUBBER LAMP CORD.



Samson Cordage,



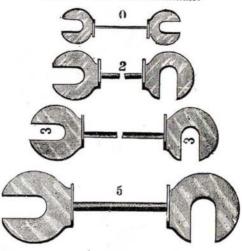
Electric Light Elevator Cable.



Rubber Covered Moulding Wire.



Copper Fuse Wire Terminals.



Terminals are shown full size.

mpere	e, No.	0	1 i	nch : pe	r hundre	Price
6.6	**	2	136		11	2.00
**	44	3	11/2	"		3,00
	100		" " 3	" 3 1½	" " 3 1½ " :	2 1%

15 Ampere, No 2 2½ inch per hundred, \$4.00 25 " 3 2½ " 4.00 100 " 5 2½ " " 5,00

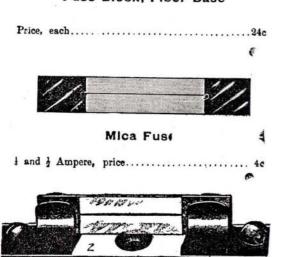
Above are S -M. style

STAMPED FUSE LINKS.





Fuse Block, Fiber Base

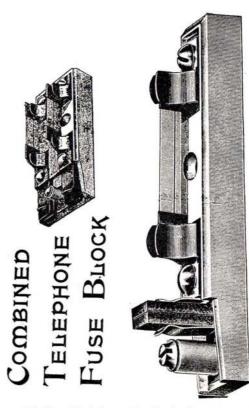


Fuse Block, Porcelain

Price, each 30c.

Fuse Mica, 1 and 2 Ampere, price 4c





This Fuse Block is considered to be about the safest protection against lightning of anything known

Price 50c.

THE ECLIPSE ANNUNICATOR

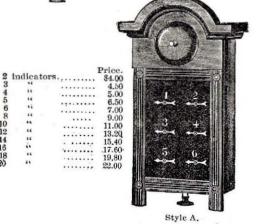
A high grade competition house annunciator.

Fully guaranteed.

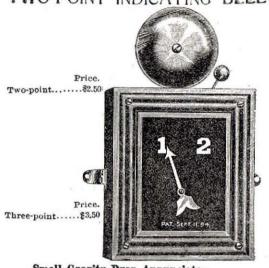
Furnished in oak cases only.

				Price.
ind	licator	rs	each,	84.45
	61	*	44	6.00 7.60
		*	6.5	9.10
			14	10.70

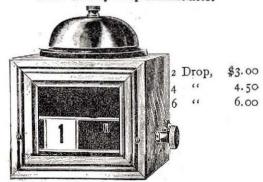
The Eclipse. Style A House Annunciators.



TWO-POINT INDICATING BELL



Small Gravity Drop Annunciator.



SELF-WINDING CLOCKS.

Length 40 inches;
width 16 inches,
Wound by electricity.
perfect clock for railroads,

stores, offices, residences, perfect and reliable

STYLE C.

Style C, complete \$40.00

Pocket Galvanometer.



A handsomely finished and valuable little galvanometer, mounted in highly polished hard rubber case, with hard rubber cover.

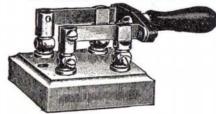
Price.

Pocket galvanometer \$6.00

BABY KNIFF SWITCHES.

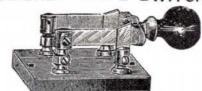


Ampere			rice ach.
15	S. P.	S. T \$	0.38
15	**	D. T	.60
15	D. P.	S. T	.50
15		D. T	.95
15	3 wire,	S. T	1.00
25	S. P.		.45
25	**	D. P	.85
25	D. P	S. T	.60
25	14	D. T	1.20
98	2 miro	ST	1 25



Ampere		Price Each.	
15	S. P.	S. T\$0.35	
15	D. P.	S. T	
25			

POLISHED KNIFE SWITCHE



Amper		rice ach
15	S. P. S. T	80 80
15	" with fuse connection.	1.05
15	S. P. D. T	1 50
15	" with fuse connection.	1.65
15	D. P. S. T	1.00
15	" " with fuse connection.	1.65



Single Pole, Single Throw.

Slate b	pases.		-5.0	
		- F	rice	
Ampere	V	Vithout		With
Capacity		Fuse.	No.	Fuse.
25		.80.95	13.	\$1.30
50		. 1.45	25.	1.90
75		. 1.80	37.	2.50
Sing	le Pole, D	ouble	Thro	W.
Ampere		Vithout		With
Capacity		Fuse.	No.	Fuse.
25 .		.\$1.60	15	\$2.20
50 .		. 2 70	27.	3.55
75		3 40	39.	4 50

GLOBE BRUSH.

For cleaning are lamp globes.



Price. each, \$0.80

EMERY CLOTH.

For cleaning carbon rods in outside arc lamps No Price. 0 ... per quire, \$1.20 $\frac{1}{2} \qquad \qquad 1.20 \\ 1 \qquad \qquad 1.20 \\ 1\frac{1}{2} \qquad \qquad 1.20 \\ 2 \qquad \qquad 1.50 \\ 2\frac{1}{2} \qquad \qquad 1.80$





each, \$0.75

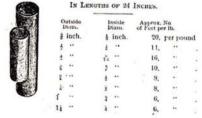
Okonite Tubing.

	0	pprox. No.		List Price.
t.	inch.	35	Per pou	nd\$2.00
ł	**	17 -		2.00
f.	**	14	**	2.00
	**	111	**	2.00
+		10	**.	2.00
	**	8		2.00
ž	**	41	66	2.00
2	**	4	.44	2.00
1	**	3	*	2.00

Soft Rubber Tubing.

T)	nalde Ham.		Covers Wire.			Approx. No. of Feet per lb.			
+	inch.	No.	20,	B. & S.	G.,			per It	·
1	**	**	14,	**		**	50.	**	
ŧ	**	4	10,			••	20,	**	
28	**	**	6.			6	15,		
ŧ	**	**	4,	-4		**	12.	**	
ž	**	"	0,	**		**	9,	**	••

Hard Rubber Tubing.



GALVANIZED GUY RODS.



Galvanized steel, % in. round, 6 feet long

Pulley Blocks.



GALVANIZED IRON, WITH LOOSE STOOKS

Single Iron Sheaves.

Diameter of	rope	4	inch.	per do:	tcn	7.20
**	**	8	**			10.80
		ş	**	**		15.00

Double Iron Sheaves.

Diameter of	rope,	ě	inch.	per dozen	 12.00
	**	4		**	 18.00
**	**	9	90	64	 24.00

POLE PROTECTION STRIPS.

Galvanized.



Made of galvanized iron 2 inches wide by 4 feet long, concaved throughout so as to conform approximately to the rounding shape of the pole.

Per 100.....\$12.00

Tiacailen Solid Mica Bracket Joint,

•	Combination.	
# x 1. each	IN MALLEABLE IRON	List Price \$0.36
∦x‡, "		36
∄ X ₺		
₹ x ‡ "		
7x3		50
1 4 1		



Canopies.

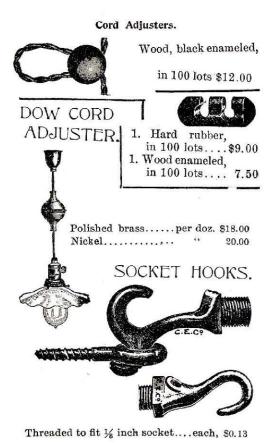
100	4	inch	Ring	and	Set Scre	w, each-	.14	
292	*	"	**		**	**	.14	
194	1	**	**		25		.15	CONTRACTOR OF THE PERSON OF TH
02	1	**	".		**	**	.15	心思思想



24	w, each	Set Scre	Ring an	inch.	ŧ	386
.24		**		.11	4	107
.26	**	**	**	**	7	328
.26		**	**	**	1	387

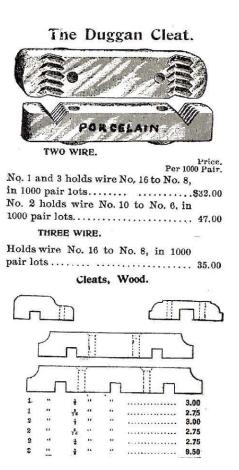
Polistied and Lacquered, 50% extra. Wire Guards.





Socket Bushings.

No. 3630.	Genuine Hard Rubber, ½ inch, per 1,000\$20.00 Composition, ½ inch, per 1,000
No. 3682.	Genuine Hard Rubber, ‡ inch, per 1,000
No. 3634.	Genuine Hard Rubber, † inch, per 1,00030.00 Composition, † inch, per 1,00012.00
No. 3636.	Soft Rubber, per 1.000
No. 9637.	Genuine Hard Rubber, # inch, per 1,00930.00
No. 2927.	Polished Brass and Hard Rubber Fixture Bush- ing, each



Electric Air Heater

FOR VOLTAGE UP TO 250.



cubic

No. 180.

WITH FOUR HEATS. LAUNDRY IRONS.

Oval shape. Weight, 3½ lbs. Consumes 240 watts. For any voltage up to 125.

PRICE \$6.00

ELECTRIC SOLDERING IRONS.



No. 10. Weight, 16 oz. length of iron, 11 ins., tip, 1/8 in. in diameter, pointed. Consumes 100 watts.



No. II Weight, 15 oz , length of iron, 12 ins., tip, 7-16 in. in diameter Consumes 90 watts.



No. 20. Weight, 1 lb 10 oz length of iron, 13½ ins.; tip. 1 in, in diameter. Either pointed or chisel shape Consumes 155 watts.



No. 21 Weight 1 lb 6 oz., length of iron, 13 ins.; tip, 9-16 in in diameter Consumes 135 watts.



No. 30. Weight 2 lbs, 8 oz. length of iron, 14 ins., tip, 1½ in indiameter Either pointed or chisel shape Consumes 300 watts.



No. 31. Weight t lb. 14 ozs., length of iron, 14 urs. tip.



No. 32. Weight a lb 12 oz., length of from 13% institute in in diameter. Either pointed or clused shape Cousumes 280 watts.



No. 40. Weight 4 lbs 4 oz length, 15 inches, tip. 1% ins Either pointed or chisel shape Cousines 425,

GLOBE ELECTRIC CIGAR LIGHTER.

Made for use on incandescent lighting circuits as well as from battery. wick is of asbestos and never burns out. In ordering state whether for battery or incandescent light cur rent, whether alternating or direct and voltage.

WHITNEY
TESTING SET.



Price.

2405. Range .1 to 211000 ohms without battery.....\$25.00

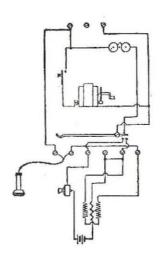


Diagram of Bridged Telephone.

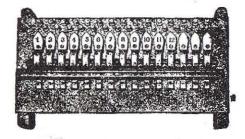
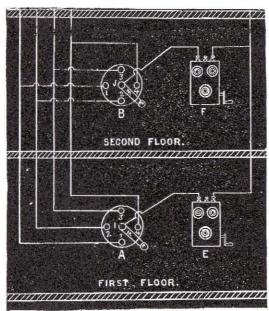
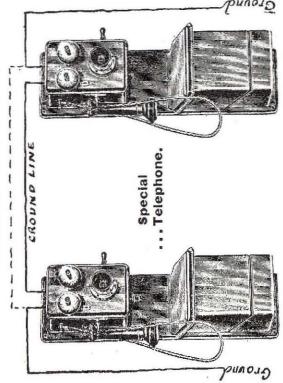


Diagram of W. U. Spring Jack.



DIAGRAM

Showing how to connect up two or more Telephones for Intercommunicating System, in Factories and Warehouses.



Estimate Material for Exchange of Fifty Telephones.

- 2 poles, 40x5.
- 8 poles, 30x5.
- 25 poles, 25x5.
- 100 10 pin cross arms.
- 50 6 pin cross arms.
- 1500 wood pins.
- 250 wood brackets.
 - & bbls. poney insulators.
- 500 porcelain knobs.
- 200 lag screws and washers.
- 50 lbs. No. 18 annunciator wire.
- 50 carbon batteries.
- 1 gravity battery for switchboard.
- 50 miles No. 14 gal. Wire.
 - 1 50 drop switchboard.
 - 1 cable box terminal boards. Line and construction tools
- 50 Telephones.

Freight.

Labor.

NO. OF POLES.	DISTANCE BETWEEN POLES (FEET).
20	264.00
20 21 22 23 24 25 25 25 26 28 8	251.40 240.10
23	226.56
24	220.00 211.20
26	203.07
27	195.50
28	188.50 182,00
30	176 00

A Few Points Worth knowing.

Electric Current-Magnetism, motion heat, chemi-, cal changes, etc., are said to be due to electric current.

Strength of Current.-This is measured by the magnitude of the effects produced in a certain time.

Resistance.—All bodies offer some resistance which is found to be in proportion to length of any material of uniform section and quality. Resistance varies with the temperature of the material. Metallic bodies increase with a rise of temperature.

Conductivity.—Substances such as the metals which offer the least resistance are called good conductors.

Insulators.—Glass and Guta Percha offer an immense resistance to the passage of electric current.

Volt.—Difference of Potential or Electric M. F. The Leclanche cell has E. M. 1.46 volts.

The Ohm.—Is the unit in which all measurements are expressed.

Ampere.—The unit strength of current is called the ampere; equal to a current sent through resistance of one ohm by E. N. I. F. of one volt.

Circuit.—The path through which a generator of electricity sends a current. It always forms a closed loop.

Earth —For economy the earth is often used to complete a circuit for a telephone connection in order to save a second wire.

Metallic Circuit.—Is meant a circuit which th earth does not form a part, being made wholly of metal

Induction Colls.—Are made by winding over an electro-magnet coil, another coil of fine wire, with a large number of turns.

Wheatstone Bridge.—Is one of the most generally useful testing instruments. Its cost is from \$75 to \$100

FAULTS.

并

The Best Telephones ever made sometimes get out of order.

- 1. CAN HEAR BUT CANNOT BE HEARD.—This fault is frequently caused by leaving the receiver off the switchhook, after the conversation is ended, the neglect resulting in the premature exhaustion of the battery.
- CAN HEAR AT BOTH ENDS, BUT CAN RING ONE WAY ONLY.—This may result from a weak battery at one end, or the bell at the faulty end may be out of adjustment.
- 3. CAN RING IN BOTH DIRECTIONS, BUT CANNOT HEAR AT EITHER STATION.—This may result from a broken receiver cord, or from a disconnected wire in some other part of the secondary (or speaking) circuit at one end only.
- Ringing and Speaking Alike Unsatisfactory.
 This may result from weak batteries at both ends, or from a bad joint or bad earth connections.
- HEARING BAD, WITH RASPING NOISES.—This may result from either of several causes—a loose joint, rust or buckled diaphram, or excessive battery power in microphone circuit.

NOISES IN ONE RECEIVER ONLY.—This will probably result from one or more particles of iron inving been attached to the poles of the magnet, the diaphraghm's vibrations being interfered with in consequenc. To remedy this, unscrew receiver cap and wipe off magnet cap.

Badly soldered joints, loose terminals, dirty contacts broken battery jars, and terminals short circuited, are also frequently causes of local faults.

Line faults may be caused by two or more lines in contact, by the line making partial or dead earth, or by a broken wire or insulator.

Lines in Contact will result in cross talk, and bells rigning when not required.

LINE MAKING PARTIAL EARTH will cause ringing and speaking to be alike unsatisfactory,

Weight and Resistance of Extra-Best Calvanized Iron Line Wire.

The standard braiding strain of superior galvanized wire is two and one-half its weight per mile.

No.	Pounds	Pounds	Feet	Ohms	Tensile
	Per	Per	Per	Per	Stigth in
	Foot.	Mile.	Pound.	Mile.	Pounds.
4 6 8	.1342 .0977 .0696 .0580	708.57 515.85 367.48 306.24	7.45 10.23 14.36 17.24	7. 9.5 13.	1900. 1500. 1100. 900.
-10	.0483	255.02	20.70°	18.	700.
11	.0383	201.60	26.07	23.	550.
12	.0292	154.17	34.24	32.	450
13	.0224	118.27	44.64	38.5	350:
14	.0169	89.23	59.07	55.	250.
15	.0137	72.33	72.09	63.7	200.
16	.0105	55.44	95.23	80.	150.

Table of Weight and Resistance of Bare Copper Wire American B. & S. Gauge the Standard.

No.	WBIGHT	p. gr. 8.		RESISTANCE AT 750		
Am. Gauge	Lbs.,	Lbs.	Feet	R. Ohms	Ohms	Feet
Brown &	Per	Per	Per	per 1000	Per	Per
Sharp's No.	1,000 ft.	Mile.	Pound.	feet.	Mile,	Ohm
6	79.32	418.81	12.61	.39546	2.0881	2528.7
7	62.90	332.11	15.90	.49871	2.6331	2005.2
8	49.88	263.37	20.05	.62881	3.3201	1590.3
9	39.56	208.88	25.28	.79281	4.1860	1261.3
10	31.37	165.93	31.38	1.	5.2800	1000.0
11	54.88	137.37	40.20	1.2607	6 6528	793.18
12	19.73	104.18	50.69	1.5898	8.3940	629,02
13	15.65	82.632	63.91	2.0047	10.585	498 83
14	12.41	65.525	80.59	2.5908	13.680	385.97
15	9.84	51.956	101 63	3.1150	16.477	321.02
16	7.81	41.237	.128 14	4.0191	21.221	248.81
17	6.19	32.683	161 49	5.0683	26.761	197.30

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Telepholing of Great Cities. Paper	00
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Webb. Telephone Hand-book. 146 pages. Illustrated	U

Induction.

The relative value of the inductance of the different forms of apparatus and wires used in telephony:

l mile of copper wire	1.	
" " iron wire:	6.	
Ordinary Telephone receiver	9.	
7 to Secondary wire of tele-		
phone induction coil of resist-		
ance, 250		
ohms	34	
Switch board annunciators,		
with annunciators, resistence		
142	155.	
Electric bell colls (in series)	865	

进心社会证

The above shows that iron line wire the same size of copper has six times as much induction as that of copper, and therefore retards the rapid alternate currents from the secondary of an induction coil are six times greater. The nearer all these resistances can be kept to the unit of copper the better for all talking circuits.

注(2)共(2)共(2)共(2)

Annunciator Wire.

Double Cotton Wrapped, Parafined and wound on spools. Made in assorted colors and of soft pure copper.

-	Approximate No.		Approximate No
No.	Feet Per Pound	No.	Feet Per Pound.
14	.70	18	165
16	105	20	225

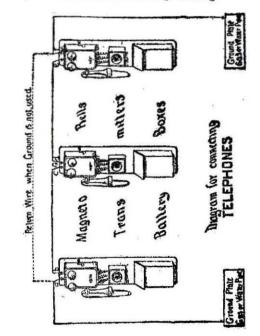
DIRECTIONS. For Connecting Telephones in Series.

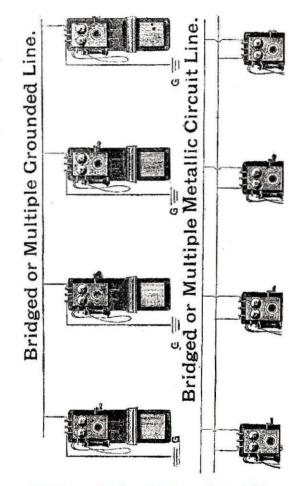
If only two instruments are to be connected, one wire should run from binding post marked b to binding post marked c, but if more than two are to be connected, they should be wired as per diagram; b to c, d to e, etc If the terminal instruments are not far apart, the return wire may be run a and f (as per the dotted line). otherwise ground connection must be made from a and f. If they are to be grounded on gas or water pipe, wrap about two feet of bare wire tightly around the entrance pipe, and solder it well to insure a good connection. ' If this is not practicable, solder the ends of the terminal wires to copper plates, each having a surface of three square feet, and place them three or four feet into damp earth.

For protection against lightning in all instruments, except terminal ones using a ground wire, run a wire from the center binding post "G" to ground, and insert plug in hole between the metal plates during a storm, taking care to remove same afterwards. In terminal instruments, where a wire already runs to the ground, inserting the plug is all that is necessary.

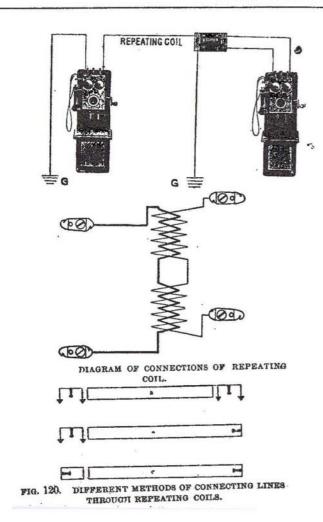
Method of Coupling Together Two or More Telephones in Series.

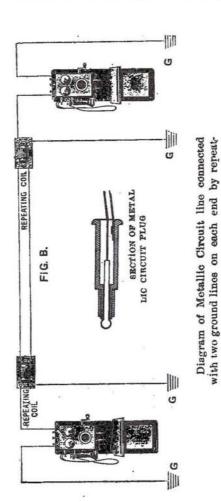
Dotted lines show wire metallic circuit. It is preferable to one wire and grounding.





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end

on each

ing coils.

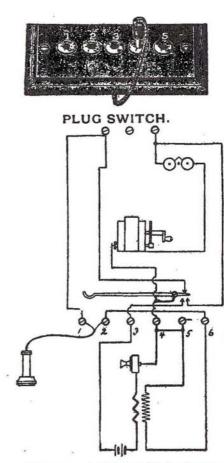


Diagram of Series Telephone

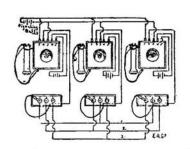


Diagram showing Intercommunica ing System for Battery Call.

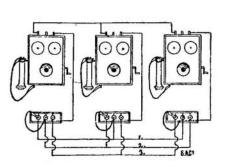
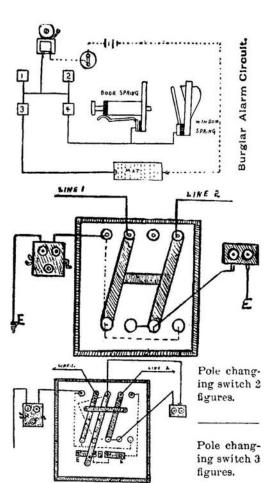


Diagram showing Intercommunicating Spstem or Magnoto Call.



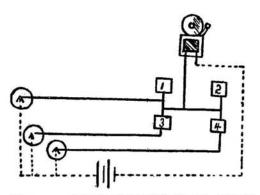


Diagram of Annunciator Call, 3 push buttons connected.

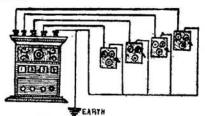


Diagram of Return, Call or common return for Exchange System

Cable, Office	
Call Boxes	Fire Alarm Apparatus
Candelabra Lamps	Pibre, Rott,
	Sheet,
	Tube
	Floats, Tell Tale
	Floor Groovers
Chemicals Battery & N. P.	Prosting Varnish
Clamps	Fuller Battery
Cleats. Porcelain	
	Galvanometers

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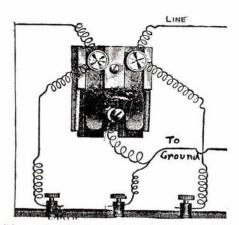


Diagram of Carbon Fuse Block connected to T.·lephone.

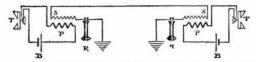
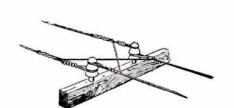


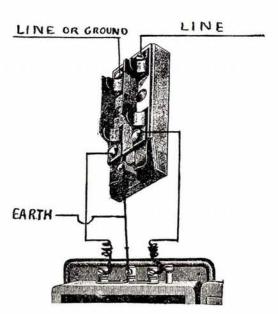
DIAGRAM OF COMPLETE TELEPHONE CIRCUIT. T TRANSMITTER, B BATTERY, P PRIMARY, S SECONDARY, R RECEIVER.



METALLIC CIRCUIT MULTIPLE JACK WITH PLUG INSERTED.



TRANSPOSITION OF METALLIC CIRCUIT.



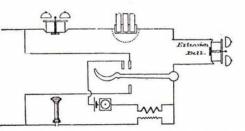


DIAGRAM SHOWING PROPER CONNECTIONS OF EXTENSION BELL.

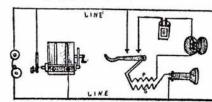


Diagram showing Carty Patent on Bridging System.

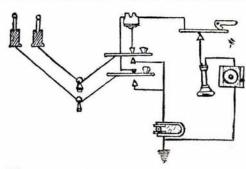


Diagram showing Operator's Set for switch board, with ring and listening cams.

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