

WESTERN
ELECTRIC
COMPANY

Chicago

New York

Annunciators, Bells,
Push Buttons, Batteries,
AND Battery Material

Catalogue F

**ANNUNCIATORS, BELLS, PUSH
BUTTONS, BATTERIES AND
BATTERY MATERIAL**

Western Electric Company

Chicago

227 to 275 South Clinton Street
242 to 258 South Jefferson Street 37 to 45 West Congress Street

New York

Bethune and West Streets

London

Bridge Chambers
171 Queen Victoria St., E. C.
and North Woolwich E.

Antwerp

32 Rue Boudewyns

Berlin S. O.

Engel Ufer 1

Paris

46 Avenue de Breteuil

*

1900

INTRODUCTORY.

The Electrical Trade in referring to this copy of our Catalogue will note that it covers only a limited line of material. In addition to material listed, we carry a large and varied stock of electrical house goods and electric light supplies, and can furnish promptly anything in the electrical line, even though it is not in our Catalogue.

Western Electric Company

1900

TERMS.

OUR terms to people of established credit are 30 days net, in Chicago or New York funds. 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 destination 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.

Telegraph Code.



CUSTOMERS 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:

Lapwing	Answer by mail.
Larboard	Referring to our letter of.
Larceny	Referring to your letter of.
Larch	We write you fully to-day.
Largeness	We have no letter from you.
Largess	Will write you fully in a day or so.
Lariat	Write giving full particulars.
Lark	Answer by telegraph—day message.
Larva	Answer by telegraph—night message.
Larynx	Referring to our telegram of.
Lascar	Referring to your telegram of.
Lash	Telegraph immediately.
Lashed	Telegraph reply soon as possible.
Lashing	We have no telegram from you.
Lass	Why do you not telegraph?
Lasting	Shall we?
Latch	Will you?
Lateen	Will you accept?
Lateness	Wire at once if accepted or not.

CODE IN GENERAL—(Continued):

Latest	Will greatly accommodate us if you will.
Latently	According to contract.
Lateral	Not according to contract.
Lather	To which add the cost of.
Lathered	In addition to.
Lathering	How did you address?
Latin	Was addressed to.
Latinize	Please note an advance of.
Latitude	Would you advise?
Latterly	Would advise you to.
Latterly	Would not advise you to.
Lattice	Unless otherwise advised will assume that.
Laud	Will you agree to?
Laudable	Will agree to.
Laudably	Must have answer by.
Laudation	Will be in.
Laudative	Will be here.

CODE IN GENERAL—(Continued):

Laugh	Utmost care must be used.
Laughable	Cash on delivery.
Laughed	Cash in 30 days
Laugher	Will not allow any commission.
Laughing	Commission will be allowed
Launch	Your financial standing being unknown, we will send goods C O D unless otherwise instructed.
Launched	Kindly send us references as to your financial standing, or shall we ship via freight with draft attached to bill of lading?
Laundress	Will you agree to the conditions?
Laundry	Contract awarded.
Laura	Contract will be awarded.
Laurate	Will you extend credit?
Laurel	Have you decided?
Lava	Have not decided.
Lavation	Have decided.
Lavatory	Will guarantee delivery by the.
Lavender	Cannot guarantee delivery before the.
Lawfully	The diameter is.
Lawfulness	Will do the best we possibly can.
Lawgiver	Do the best you possibly can.
Lawgiving	Shall we do so?
Lawless	Do so.
Lawn	Can do nothing until.
Lawrence	What have you done about?
Lax	Will deposit sight draft on you to-day, unless advised to the contrary, for dollars.
Laxative	Please accept our draft for dollars.
Laxity	Send duplicate copy of invoice dated.
Laxness	Have examined very carefully and find.
Laymen	Expenses to be paid by.
Lazily	Do not fail to.
Laziness	Have figured as close as possible.
Lazy	Freight must be prepaid.
Leach	Freight rate per hundred pounds to destination.
Lead	What is freight rate per hundred pounds?
Leader	Guarantee the account.
Leading	Hold subject to your order.
Leafage	Does not include.
Leafing	Must be included.
Leafless	Will keep you fully informed.
Leafy	Insist upon.
League	Await instructions.
Leagued	Letter in transit with full particulars

CODE IN GENERAL—(Continued):

Leak	Shall we deliver goods on verbal order of your Mr.?
Leakage	Advisable for you to place order at once, prices tending to an advance.

ORDERS:

Leaking	Add to our order of.
Leaky	Cancel our order of.
Lean	Change our order of.
Leaned	Hurry forward goods on our order of
Leaning	Have you shipped goods on our order? If not, when will you?
Leanness	Enter order if you can ship in.
Leaped	Hold for instructions our order of.
Leaping	If you cannot ship in time named advise by telegraph.
Learn	Instructions by mail
Learned	Prepay freight.
Learning	Shipping instructions will be sent you.
Lease	Ship immediately.
Leased	Ship as soon as possible.
Leasehold	Ship by express.
Leaseholder	Ship by fast freight.
Leash	Ship quickest route.
Leaven	Ship cheapest route.
Leavened	Send tracer immediately for shipment of.
Leavening	Wait receipt of letter before proceeding with order.
Lecture	Change order for.
Lectured	Send C. O. D. by express.
Lecturing	What quantity can you ship per day?
Ledge	Do not delay.
Leeward	Duplicate our order.
Leeway	Can you furnish?
Legacy	Hold subject to our order.
Legal	Hold until further orders.
Legalize	Send us immediately.
Legally	This is very important.
Legate	Send tracer on shipment—goods not here.

QUESTIONS:

Legatee	At what price could you furnish?
Legation	Quote us by telegraph.
Legend	Quote us by next mail.
Legendary	Quote lowest price by telegraph, F. O. B. New York.
Legging	Quote lowest prices by mail, F. O. B. New York.

Questions—(Continued):

Legible	Telegraph lowest price, F. O. B. New York, and how soon can ship.
Legibly	Can you ship immediately?
Legion	Can you ship in?
Legislate	Have you in stock?
Legislated	Have you in stock? If not, how soon can ship?
Legislating	How soon can you ship.
Legislative	How soon can you make first shipment, and how fast remainder?
Legislator	What substitution can you make?

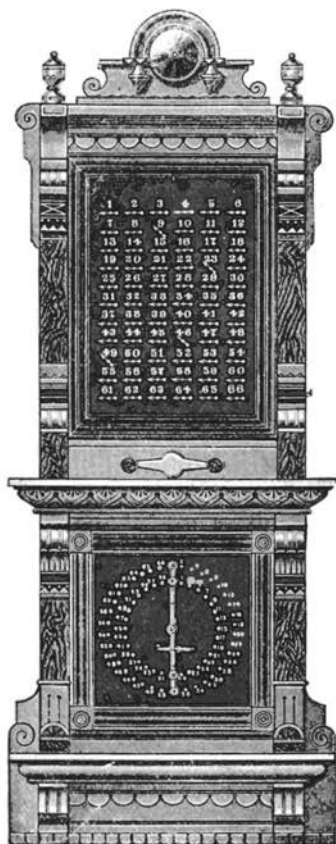
ANSWERS:

Legislature	Please specify quantities and trade number.
Legitimate	Unable to give better price.
Legitimately	We quote.
Legitimist	We quote for immediate acceptance.
Legless	We quote in reply to your inquiry of.
Leisure	We quote shipment from stock.
Leisurely	We quote shipment in.
Leming	We cannot accept at the price.
Lemon	We will accept your order.
Lemonade	We do not make the article.
Lender	Can ship at once from stock, if advised immediately.
Lending	Can ship at once on receipt of order.
Lengthen	Can ship in.

Answers—(Continued):

Lengthened	Can begin shipping at once, and complete in.....
Lengthening	Can ship within one week from receipt of order if advised at once.
Lengthily	Can ship within two weeks from receipt of order if advised at once.
Leniency	Have none in stock.
Lenient	First shipment will be made.
Lent	Have entered order and will ship.
Leonard	Have sent tracer as requested.
Leonine	Have suspended work as requested.
Leonora	Too late to cancel order.
Leopard	Unable to ship goods at time promised.
Leopold	We ship you to-day.
Laper	We expect to ship.
Laproy	We will complete your order.
Laprous	We will ship.
Lessee	We have shipped.
Lessened	We have completed your order and shipped same.
Lessening	We have entered order.
Lethargy	Telegraph shipping instructions for your order of.
Lettuce	Can deliver part of your order at once. Shall we ship portion or hold till we can make one complete shipment?
Levant	Do not understand your order. Send duplicate with full details.
Levelness	Send us official order confirming your telegram.

ANNUNCIATORS.

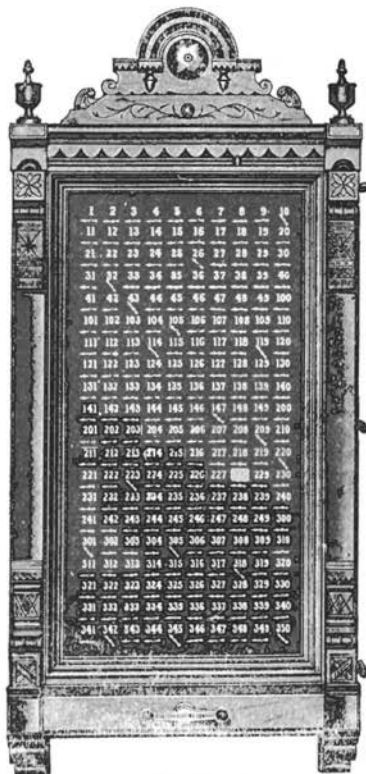


No. 9010.

Hotel Annunciator, with Fire Alarm and Room Call.

The illustration, No. 9010, represents our Standard Hotel Annunciator with Automatic Fire Alarm and Room Call. This Annunciator is in use in most of the large hotels throughout the country, and in every case is giving perfect satisfaction.

For prices, see pages 10 and 13.



No. 9015.

Hotel Annunciators.—(Continued).

Standard.

	List Price Per Indication.
20 to 40 Indications	\$3.00
40 to 70 Indications	2.80
Above 70 Indications	2.50



No. 9018.

Hotel Annunciators.—(Continued).

"C" Style.

	List Price, Per Indication.
25 to 40 Indications.....	\$2.40
40 to 50 ".....	2.20
50 to 70 ".....	2.00
70 to 120 ".....	1.80

See page 12 for larger sizes.



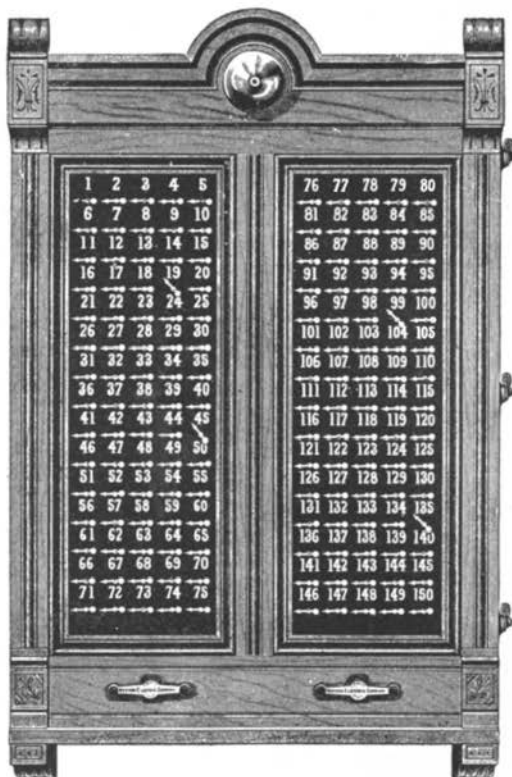
No. 9020.

Number 2 Style.

25 to 40 Indications.....	2.40
40 to 50 ".....	2.30
50 to 80 ".....	2.20
80 to 75 ".....	2.00
75 to 100 ".....	1.90
100 to 250 ".....	1.80

Hotel Annunciators.—(Continued).

"C" Style—Double Face



No. 9022.

Not made in sizes smaller than 130 indications.

Per indication
 List Price \$1.80



D Style Hotel Annunciator with Standard Room Call.

D Style Hotel Annunciator.

The D style hotel annunciator is made in oak only; the pointers are nickel plated and the face of the dial is black.

The D Style Hotel Annunciator.

	List Price Per Indication
20 to 100 indications.....	\$1.85
100 to 200 "	1.40

The D Style Hotel Annunciator with Standard Room Call.

20 to 100 indications.....	2.65
100 to 200 "	2.40

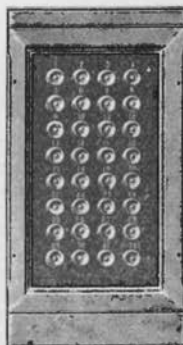
The D Style Hotel Annunciator with Return Call Push Button Board Attachment.

20 to 100 indications.....	2.50
100 to 200 "	2.25

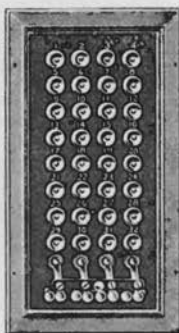
Return Call Push Button Board.

These return calls are made of oak only with 3-point midget push buttons, neatly finished.

20 to 100 indications.....	\$0.90
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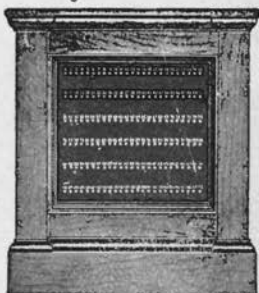
Return Call Push Button Board.



Return Call Push Button Board and Fire Alarm.

Return Call Push Button Board and Fire Alarm.

This is a combination of the return call push button board and two point switches. Circuits may be arranged so that by throwing the one lever all the bells attached to the return call are placed in circuit. The device is best adapted for small installations. Special prices quoted when number of indications desired are given.

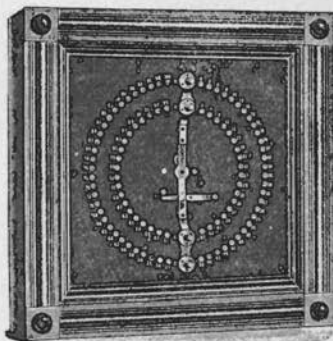


No. 9025.—Room Call.

Room Call.

List Price
Per Indication.

30 to 50 Indications.....	\$1.50
50 to 100 ".....	1.30
Above 100 ".....	1.20



No. 9028.—Automatic Fire Alarm and Room Call.

Automatic Fire Alarm and Room Call.

25 to 40 Indications.....	3.50
40 to 60 ".....	3.25
60 to 100 ".....	2.75
100 to 150 ".....	2.25
Above 150 ".....	2.00

Mechanical Fire Alarm and Room Call.

25 to 40 Indications.....	3.00
40 to 60 ".....	2.50
60 to 100 ".....	2.25
100 to 150 ".....	2.00
Above 150 ".....	1.75



No. 9033.

Call Annunciators.

Standard.

Code Word.	List No.		List Price. Each.
Abbeville	9030	4 Indications.....	18.50
Abbotsford	9031	6 ".....	21.00
Abbott	9032	8 ".....	24.00
Abbotsburg	9033	0 ".....	25.00
Abbotstown	9034	10 ".....	26.50
Abercrombie	9035	12 ".....	28.50
Aberdeen	9036	14 ".....	32.00
Abilene	9037	15 ".....	33.00
Abingdon	9038	16 ".....	34.50
Ablemans	9039	18 ".....	37.00
Abrenta	9040	20 ".....	40.00



No. 9023.—Black Dial.

Call Annunciators—(Continued.)

Code Word.	List No.	List Price
<i>Accomplished</i>	9011-3 Indications	\$ 9.00
<i>Accor</i>	9012 4	10.50
<i>Accordance</i>	9013 5	12.00
<i>Accordian</i>	9014 6	13.00
<i>Accordion</i>	9016 7	14.50
<i>Accost</i>	9017 8	15.50
<i>Accostable</i>	9019 9	17.00
<i>Ackley</i>	9021 10	18.00
<i>Acme</i>	9023 12	21.00
<i>Acton</i>	9024 14	23.50
<i>Acushnet</i>	9026 16	26.00
<i>Acworth's</i>	8027 18	28.50

New Style "Style D" Annunciators.

These Annunciators are finished in oak only substantially and neatly made, and present a handsome appearance. The pointers are nickel-plated and the dial is black, thus making the indications very marked and easy to see. The gongs are nickel-plated.

All the material is carefully selected.

These Annunciators are for use in elevators, offices, factories, large apartment buildings, dwelling houses and hotels. They are made in the following sizes and the indications will be marked in accordance with the instructions of the customers.

Carried in stock in large quantities.

No. 2433.
Front View.No. 2433.
Rear ViewD style
Elevator
Annunciator

Victor No. 2443.

<i>Fareitious</i>	2433 4 Indications	\$ 4.00
<i>Fanciel</i>	2434 6	6.00
<i>Fancilly</i>	2435 8	8.00
<i>Fariate</i>	2436 10	10.00
<i>Farie</i>	2437 12	12.00
<i>Fariend</i>	2438 14	14.00
<i>Fariend</i>	2439 16	16.00

Victor Annunciators.

<i>Facies</i>	2440 3 Indications	\$ 3.00
<i>Facile</i>	2441 4	4.00
<i>Facilitate</i>	2442 5	5.00
<i>Facilitation</i>	2443 6	6.00
<i>Facility</i>	2444 7	7.00
<i>Facily</i>	2445 8	8.00
<i>Facingly</i>	2446 9	9.00
<i>Facinorous</i>	2447 10	10.00
<i>Fack</i>	2448 11	11.00
<i>Fackeltanz</i>	2449 12	12.00



No. 2457.



No. 2412.



No. 2416.



No. 2428.



No. 2432.

Call Annunciators—(Continued.)

L. & R. Gravity Drop Annunciators.

Code Word.	List No.	2 Indications	List Price
<i>Facere</i>	2450	2	\$ 3.00
<i>Facemilist</i>	2451	3	4.00
<i>Fact</i>	2452	4	5.00
<i>Facish</i>	2453	5	6.00
<i>Facitude</i>	2454	6	7.00
<i>Facitling</i>	2455	7	8.00
<i>Faction</i>	2456	8	9.00
<i>Factious</i>	2457	9	10.50
<i>Factitious</i>	2458	10	12.00
<i>Factitice</i>	2459	12	14.00

Ideal Automatic House Annunciators.

The Ideal Automatic Annunciators do not require re-setting.

The last call is the only one showing, and can be seen at a glance.

<i>Faba</i>	2410	3 Indications	\$5.40
<i>Faber</i>	2411	4	6.00
<i>Fabian</i>	2412	6	9.00
<i>Fabianian</i>	2413	8	11.20
<i>Fable</i>	2414	10	14.00
<i>Fabler</i>	2415	12	16.80
<i>Fablian</i>	2416	14	18.20
<i>Fabrie</i>	2417	16	20.80
<i>Fabricant</i>	2418	18	23.40
<i>Fabrinate</i>	2419	20	26.00
<i>Fabrication</i>	2420	22	26.40
<i>Fabrile</i>	2421	24	28.80
<i>Fabulist</i>	2422	26	31.20
<i>Fabulism</i>	2423	28	33.60
<i>Fabulous</i>	2424	30	36.00

Ideal Automatic Elevator Annunciators.

<i>Faburden</i>	2425	3 Indications	\$ 5.40
<i>Fae</i>	2426	4	6.00
<i>Faoid</i>	2427	6	9.00
<i>Fae</i>	2428	8	11.20
<i>Faced</i>	2429	10	14.00
<i>Farer</i>	2430	12	16.80
<i>Faret</i>	2431	14	18.20

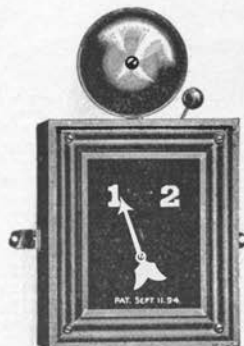
Two-Way Annunciators.

This Annunciator is automatic in its action. There is nothing about it liable to get out of order.

It is designed especially to meet the demand for a cheap and reliable two-number annunciator.

It is well made and neatly finished.

<i>Faceta</i>	2432	Two-way	\$ 3.20
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No. 4072

The "Dandy" Automatic Two-Point and Three-Point Annunciator.

Size of case, 4½ x 5 inches.

The Two-Point Annunciator serves the purpose of two bells, for front and back doors.

By the addition of a small metal buzzer, which is fastened to the gong post of the Two-Point Annunciator, it becomes a three-point annunciator, especially applicable to the three calls of the front door, side door, and dining-room. The latter call is made from the buzzer. The buzzer is accessible for adjustment by simply removing the gong. The needle does not require resetting.

Code Word	List No.		List Price
<i>Fannical</i>	4072	Two-Point Annunciator, Oak	\$2.00
<i>Fannicium</i>	4073	" " Black Walnut	2.00
<i>Fannicula</i>	4074	Three-Point " Oak	2.75
<i>Fannicula</i>	4075	" " Black Walnut	2.75

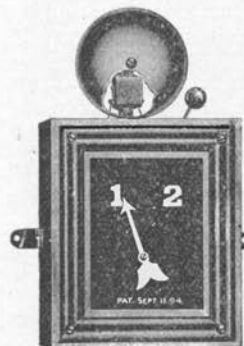
Special lettering 10 cents extra.

The Dandy Register.

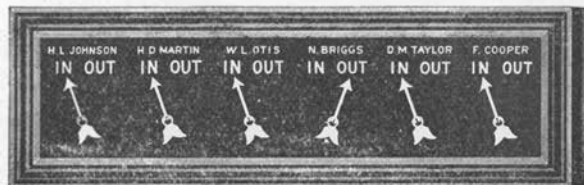
This instrument is used in large establishments, where it is desirable to ascertain the presence or absence of employees. It is applicable where their accustomed positions are at a distance from the main office or on different floors. A register placed at the entrance of building will furnish a visitor information as to whether the party called for is in or out, while a duplicate will supply the same record in the office. Two push buttons, marked respectively, "In" and "Out," are placed near the desk of the person whose name appears upon indicator, and serve to operate the instrument, which is made on the principle of the Two-Point Dandy Bell. The number of instruments which can be operated simultaneously from each set of push buttons is not limited to the two mentioned above.

The system can be made more complete by using a push button in combination with each section of the register, which being pressed will ring a bell near by and notify the employee that he is wanted. This notification can be made from a push located at either or both instruments. In the latter case a Two-Point Dandy Bell marked "Entrance" and "Office" would be a desirable adjunct.

<i>Fancier</i>	4076	3 Names	\$ 6.50
<i>Fancier</i>	4077	4 " "	8.00
<i>Fancier</i>	4078	5 " "	9.50
<i>Fancier</i>	4079	6 " "	10.50
<i>Fancier</i>	4080	7 " "	12.00
<i>Fancier</i>	4081	8 " "	13.00
<i>Fancier</i>	4082	9 " "	14.00
<i>Fancier</i>	4083	10 " "	15.00



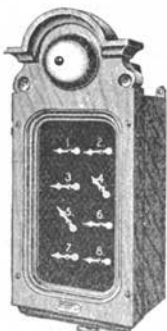
No. 7074



No. 4079.

There are many situations where an instrument like the above could be made very useful.

Special prices made on larger sizes.



No. 9106.



No. 9104.



No. 9092.

Call Annunciators.—(Continued).

Code Word.	List No.	Indications	List Price, Each.
<i>Ada</i>	9080	2	\$ 8.00
<i>Adair</i>	9101	3	9.00
<i>Adams</i>	9102	4	10.00
<i>Adamsbury</i>	9103	5	11.25
<i>Adamstown</i>	9104	6	12.50
<i>Adana</i>	9105	7	13.75
<i>Addison</i>	9106	8	15.00
<i>Adel</i>	9081	9	16.00
<i>Adelia</i>	9108	10	17.50
<i>Adelphi</i>	9109	11	18.25
<i>Adeline</i>	9110	12	19.00
<i>Aden</i>	9111	13	22.00
<i>Adrian</i>	9112	14	25.00
<i>Aetna</i>	9113	15	27.00
<i>Afton</i>	9114	16	28.50
<i>Agrioola</i>	9115	17	29.50
<i>Agusascal</i>	9116	18	30.00
<i>Aiken</i>	9117	19	31.50
<i>Ainsworth</i>	9086	20	33.00
<i>Aireys</i>	9087	21	34.00
<i>Airbie</i>	9088	22	35.00
<i>Akron</i>	9089	23	36.50
<i>Alabama</i>	9090	24	38.00
<i>Alameda</i>	9091	25	40.00

We can furnish the annunciators listed above with indications in a vertical or horizontal row, as shown in illustrations No. 9106 and 9104. We will always furnish the pattern No. 9106, unless otherwise specified.

Constant Ringing Attachment.

Alarm 9092 2.20

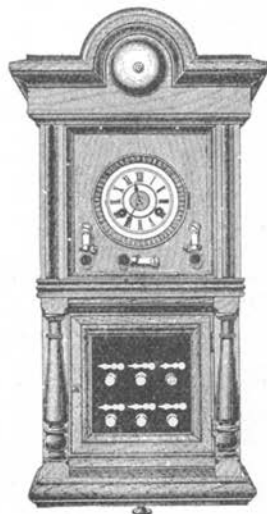
This attachment is used in circuits to take the place of the more expensive Burglar Alarms. It is an improved form of the clumsy "Automatic Drop." Can also be used as a one number indicator. When used as a constant ringing attachment the needle drops and throws the bell on a local circuit, which continues to ring until the needle is turned to a horizontal position.



No. 9094.

Burglar Alarm Annunciators.

Code Word.	List No.	List Price. Each
<i>Alamosa</i>	9093 4 Indications.....	\$22.50
<i>Alapaha</i>	9094 6 "	26.00
<i>Alamitos</i>	9095 8 "	32.00
<i>Alva</i>	9096 10 "	35.00
<i>Albany</i>	9097 12 "	38.50
<i>Alborton</i>	9098 15 "	42.50



No. 9142.

Burglar Alarm Annunciator with Clock Attachment.

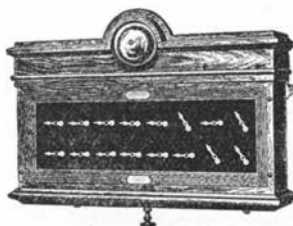
<i>Alberville</i>	9142 6 Indications.....	35.00
	Each additional indication.....	3.00
<i>Albia</i>	9143 Servant's call.....	5.00



No. 9148.

Burglar-Alarm Annunciators—(Continued).

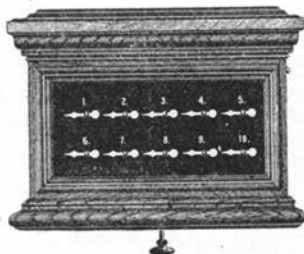
Code Word.	List No.	List Price, Each.
<i>Aida</i>	9145	4 Indications..... \$26.00
<i>Aldeu</i>	9146	6 " 30.50
<i>Aldeu</i>	9147	8 " 34.50
<i>Alede</i>	9148	9 " 37.00
<i>Alexander</i>	9149	10 " 39.00
<i>Alexandria</i>	9150	12 " 43.00
<i>Alexis</i>	9151	15 " 49.50
<i>Alfre</i>	9152	16 " 52.00
<i>Algiers</i>	9153	18 " 56.50
<i>Alger</i>	9154	20 " 61.00



No. 9167.

Car Annunciators.

<i>Algones</i>	9160	4 Indications.....	19.00
<i>Algona</i>	9161	6 "	22.00
<i>Algonquin</i>	9162	8 "	25.00
<i>Aida</i>	9163	9 "	26.00
<i>Alkire</i>	9164	10 "	28.00
<i>Allamille</i>	9165	12 "	30.00
<i>Allendale</i>	9166	14 "	33.00
<i>Allatoona</i>	9167	16 "	36.00



No. 9174.

<i>Allegan</i>	9170	4 Indications.....	14.00
<i>Allegany</i>	9171	6 "	17.00
<i>Allegheny</i>	9178	8 "	20.00
<i>Allen</i>	9173	9 "	22.00
<i>Allenaville</i>	9174	10 "	23.00
<i>Allenton</i>	9175	12 "	25.00
<i>Alleyton</i>	9176	14 "	28.00
<i>Alliance</i>	9177	16 "	31.00



No. 0182.



No. 9202.

Elevator Annunciators.

Standard.

Code Word.	List No.		List Price Each.
Allison	9180	4 Indications.....	\$16.00
Allovey	9181	5 ".....	17.50
Alma	9182	6 ".....	19.00
Almont	9183	7 ".....	20.00
Almoral	9184	8 ".....	21.50
Alpha	9185	9 ".....	23.00
Alpine	9186	10 ".....	24.00
Alpsville	9187	12 ".....	27.00
Alston	9188	14 ".....	30.00
Altamont	9189	15 ".....	31.50
Altata	9190	16 ".....	32.50

Number 2 Style.

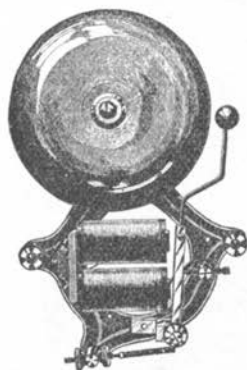
Alzheimer	9200	3 Indications.....	11.00
Alto	9201	4 ".....	12.00
Alton	9202	5 ".....	13.50
Altona	9203	6 ".....	15.00
Altoona	9204	7 ".....	16.00
Altadena	9205	8 ".....	17.50
Alvarado	9206	9 ".....	19.00
Atceda	9207	10 ".....	20.00
Atcin	9208	11 ".....	22.00
Atcinaton	9209	12 ".....	23.00
Atisora	9210	13 ".....	24.50
Atord	9211	14 ".....	26.00
Atvise	9212	15 ".....	27.50
Atvadesa	9213	16 ".....	29.00

Cables for Elevator Annunciators.

Amadore	9215	4 Conductor for 3 No. Annunciator, per ft.	.30
Amanda	9216	5 " 4 " " "	.32½
Amargos	9217	6 " 5 " " "	.35
Amazonia	9218	7 " 6 " " "	.37½
Ambia	9219	8 " 7 " " "	.40
Ambler	9220	9 " 8 " " "	.42½
Amboy	9221	10 " 9 " " "	.45
Amburns	9222	11 " 10 " " "	.47½
Amel	9223	12 " 11 " " "	.52½
Amenia	9224	13 " 12 " " "	.55
Americus	9225	14 " 13 " " "	.57½
Ames	9226	15 " 14 " " "	.60
Amebury	9227	16 " 15 " " "	.70



BELLS.

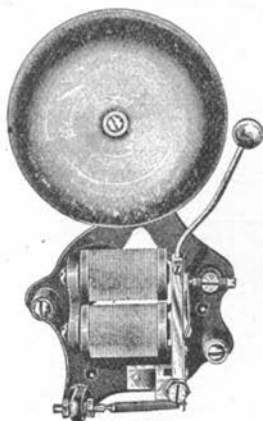


No. 9250.

Skeleton.

PIVOTED ARMATURE

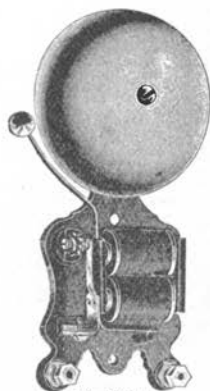
Code Word.	List No.		List Price.
<i>Amherst</i>	9250	4-Inch Gong, each.....	\$4.40
<i>Amite</i>	9251	5 " " ".....	4.80
<i>Amity</i>	9252	6 " " ".....	6.80
<i>Amo</i>	9253	7 " " ".....	7.40
<i>Amoret</i>	9254	8 " " ".....	8.60



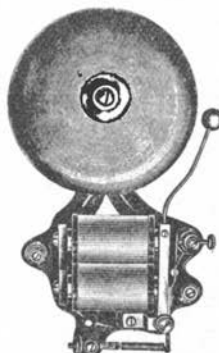
No. 9255.

PIVOTED ARMATURE

<i>Amos</i>	9255	4-Inch Gong, each.....	2.20
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No. 9256



No. 9260



No. 9275

Bells—(Continued.)**Skeleton.****NOT PIVOTED.**

Code Word	List No.	List Price.
<i>Amsterdam</i>	9256 2½ Inch, each	\$0.60
<i>Anacortes</i>	9257 3 " "	.65

NOT PIVOTED.

(Same as No. 9256, but with heavier frame and larger magnets.)

<i>Anheim</i>	9258 3½-Inch, each	.75
<i>Anmosa</i>	9259 4 " "	.85

PIVOTED ARMATURE.

<i>Anchora</i>	9260 3-Inch, each	1.65
<i>Ancona</i>	9261 3½ " "	1.90
<i>Ancona</i>	9262 4 " "	2.10
<i>Ancrum</i>	9263 5 " "	2.75
<i>Andale</i>	9264 6 " "	3.50
<i>Anderson</i>	9265 7 " "	4.00
<i>Andover</i>	9214 8 " "	5.75
<i>Anglese</i>	9267 9 " "	7.50
<i>Angola</i>	9268 10 " "	11.00
<i>Anguilla</i>	9269 12 " "	13.50
<i>Angu</i>	9270 14 " "	21.00
<i>Antia</i>	9271 15 " "	23.00

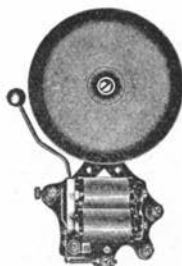
PIVOTED ARMATURE.

(Same as No. 9260, but with lighter frame and smaller magnets.)

<i>Anna</i>	9272 6 Inch, each,	3.00
<i>Annandale</i>	9273 8 " "	4.50
<i>Annapolis</i>	9274 10 " "	8.00
<i>Pardel</i>	3946 12 " "	12.00

Iron Box Bells.

<i>Facile</i>	2460 1-Inch Gong, each	.90
<i>Annawan</i>	9275 1½ " " "	.80
<i>Annisson</i>	9276 2 " " "	.84
<i>Anneville</i>	9277 2½ " " "	.54
<i>Anserated</i>	9279 3 " " "	.56
<i>Anserine</i>	9280 4 " " "	.70



No. 2477

Bells—(Continued.)**Iron Frame Bell.**

Code Word	List No.	List Price
<i>Fad</i>	2477 4-Inch	\$2.00
<i>Faddish</i>	2478 5 "	2.25
<i>Faddist</i>	2479 6 "	2.50



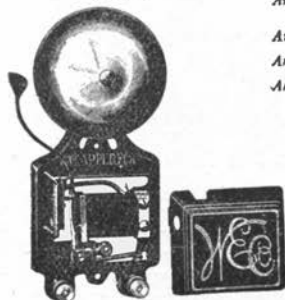
No. 9281.

Iron Box.**LOUD RINGING.**

<i>Anson</i>	9281 6-Inch Gong, each	6.00
<i>Ansonia</i>	9282 8 " " "	7.50

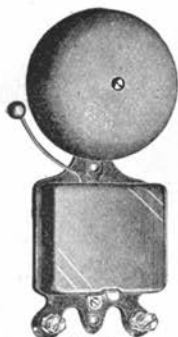
CHICAGO.

<i>Ante</i>	9283 2½-Inch Gong, each	1.20
<i>Anterlent</i>	9284 3 " " "	1.30
<i>Antrothustic</i>	9285 4 " " "	1.40
<i>Antequere</i>	9192 With Tea Gong, each	1.40
<i>Antibes</i>	9193 " Sleigh " "	1.40
<i>Antioati</i>	9194 " Cow " "	1.40



No. 9283

The shape and position of the magnets gives the maximum of power, with the minimum of battery force; with one cell of battery this bell will ring through from six hundred to eight hundred feet of No. 18 wire.



No. 9287.

Bells—(Continued.)**Iron Box.**

Code Word.	List No.	List Price
<i>Antelope</i>	9287 2½-Inch Gong, each	\$0.50
<i>Anthos</i>	9288 3 " " "	.55
<i>Antior</i>	9289 4 " " "	.75

A



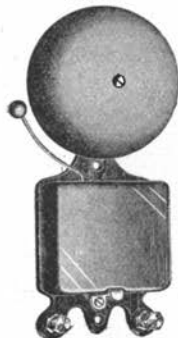
No. 9296.

PIVOTED ARMATURE.

<i>Antoni</i>	9296 2½-Inch, each	.65
<i>Antrim</i>	9297 3 " "	.70

Same as No. 9296, with exception of pivoted armature.
They have heavier frames and larger magnets.

<i>Factor</i>	2461 3½ inch	.80
<i>Antwerp</i>	9298 4 inch	.90
<i>Apex</i>	9299 5 inch	1.20



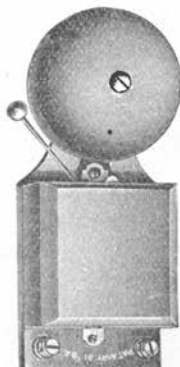
No. 2462.

Victor Iron Box Bell.

<i>Factor</i>	2462 2½-Inch Gong, each	.55
<i>Factorable</i>	2463 3 " " "	.60
<i>Factorrd</i>	2464 3½ " " "	.70
<i>Factorial</i>	2465 4 " " "	.80

Bells—(Continued.)

Wood Box.



No. 9317.

Code Word.	List No.		List Price
<i>Appanung</i>	9317	2½-Inch Gong, each.....	\$0.70
<i>Appleton</i>	9318	3 " " ".....	.75
<i>Farallutice</i>	2474	3½ " " ".....	.85
<i>Apponutlox</i>	9302	4 " " ".....	.95
<i>Faraulty</i>	2475	5 " " ".....	1.05
<i>Apriema</i>	9195	With Tea Gong, each.....	1.00
<i>Apukeron</i>	9196	" Sleigh " ".....	1.00
<i>Apurinne</i>	9198	" Cow " ".....	1.00

(Same as No. 9317 but with heavier frame and larger magnets.)

<i>Aptos</i>	9303	4-Inch Gong, each.....	1.00
<i>Apuli</i>	9304	5 " " ".....	1.25
<i>Arba</i>	9305	6 " " ".....	2.50



No. 9306.

PIVOTED ARMATURE.

<i>Arbela</i>	9306	2½-Inch, each.....	.80
<i>Aret</i>	9307	3 " " ".....	.85

(Same as No. 9306 but with heavier frame and larger magnets.)

<i>Facnd</i>	2476	3½-Inch, each.....	1.00
<i>Arudia</i>	9347	4 " " ".....	1.10
<i>Arcaum</i>	9309	5 " " ".....	1.25



No. 4175.

Code Word.
Fasciculit

List No.

4175 Each, nickel plated

List Price.

\$3.00

Bells—(Continued.)**The New Tyrolean Bell.**

Unique in design; handsome in appearance; elegantly finished.

It is especially applicable as a "Dinner Bell" with its rich and mellow tones.

Two cells of battery are sufficient to operate it.

Finished in all the latest finishes.



No. 4176.

Fasciculus

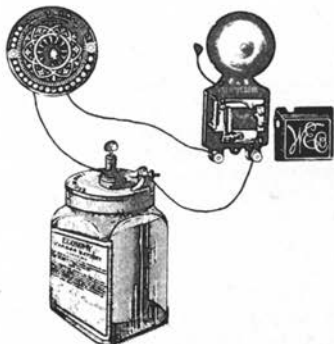
4176

Fitted with 3 inch gong only, each

.80

The Monitor Iron Bell.

A neat, compact, round bell.



No. 4177.

Fascinate

4177

Outfit complete.....

3.00

Electric Bell Outfits.

Consisting of

1 No. 9283 W. E. 2 1/2 in. Bell.

1 No. 2976 Economy Carbon Battery.

1 No. 9605 Polished Bronze Push Button.

75 feet No. 18 Annunciator Wire.

Necessary staples.



Electric Bell Outfits.

Code Word.	List No.	List Price.
<i>Avondale</i>	9420	Outfit, complete.....\$2.40
	Consisting of	
	9291	3-inch Iron box bell.
	10000	Disque LeClanche battery.
	9650	Wood push button.
		75 feet, No 18, Annunciator wire.
		Necessary Staples.



No. 9420.

<i>Aconport</i>	9421	Outfit, complete..... 2.65
		(Same as outfit No. 9420, but with bronze push, No. 9505, instead of wood push.)



No. 9422.

<i>Aztell</i>	9422	Outfit, complete..... 2.50
	Consisting of	
	9301	3-inch Wood box bell.
	10000	Disque LeClanche Battery.
	9650	Wood push button.
		75 feet No. 18 Annunciator wire.
		Necessary staples.

<i>Ayleford</i>	9423	Outfit, complete..... 2.75
		(Same as outfit No. 9422, but with bronze push, No. 9505, instead of wood push.)

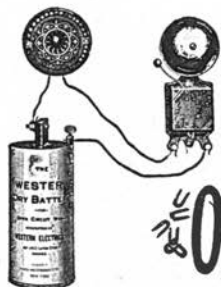


Electric Bell Outfits—(Continued).

With Dry Batteries.

BELL AND BATTERY MOUNTED.

Code Word.	List No.	List Price
<i>Aylmer</i>	9425	Phenix Outfit, complete.....\$4.25
		Consisting of
	9283	2½-Inch Iron Box Bell.
	10115	Phenix Dry Battery.
	9464	Bronze Push Button.
		72 feet No. 18 Annunciator Wire.
		Necessary Staples.
<i>Ayr</i>	9426	Pony Outfit, complete..... 3.90
		(Same as Outfit No. 9425, but with a Pony Dry Battery in place of the Phenix.)
<i>Babble</i>	9427	Western Outfit, complete..... 3.90
		(Same as Outfit No. 9425, but with a Western Dry Battery in place of the Phenix.)



No. 9428.

NOT MOUNTED.

<i>Babbler</i>	9428	Outfit, complete..... 2.50
		Consisting of
	9291	3-Inch Iron Box Bell.
	10116	Western Dry Battery
	9605	Bronze Push Button.
		75 feet No. 18 Annunciator Wire.
		Necessary Staples.
<i>Babe</i>	9429	Outfit, complete..... 2.75
		Consisting of
	9291	3-Inch Iron Box Bell.
	10115	Phenix Dry Battery
	9605	Bronze Push Button.
		75 feet No. 18 Annunciator Wire.
		Necessary Staples.



No. 9232.

Electric Bell Outfits—(Continued).

BURGLAR ALARM OUTFIT WITH DOOR SPRING.

Code Word.	List No.	List Price.
<i>Baby</i>	9232	Outfit, complete.....\$2.50
		Consisting of
	9291	3-Inch Iron Box Bell.
	10000	Disque LeClanche Battery.
	11898	Door Spring.
	13110	Wood Base Switch.
		75 feet No. 18 Annunciator Wire.
		Necessary Staples.

BURGLAR ALARM OUTFIT WITH WINDOW SPRING.

<i>Babylon</i>	9234	Complete..... 2.50
		(Same as outfit No. 9232, but with window spring No. 11878 instead of door spring.)



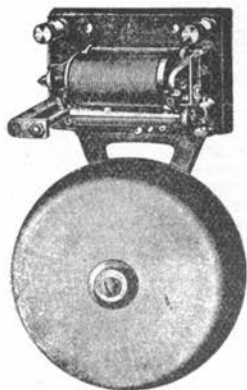
No. 9424.

FLOOR KEY OUTFIT

<i>Bachelor</i>	9424	Complete..... 3.20
		Consisting of
	9195	Wood Box Bell.
	10000	Disque LeClanche Battery.
	9696	Floor Key.
		75 feet No. 18 Annunciator Wire.
		Necessary Staples.

EXTENSION FLOOR PUSH OUTFIT.

<i>Bacon</i>	9230	Complete..... 4.00
		Consisting of
	9291	3-Inch Iron Box Bell.
	10000	Disque LeClanche Battery.
	9715	Floor Push, with 3-foot cord.
		75 feet No. 18 Annunciator Wire.
		Necessary Staples.



No. 2483.

Bells—(Continued.)**The Vigilant Single Stroke and Vibrating Bell.**

A perfect signal bell for railroads, depots, schools, factories, fire alarm, etc.

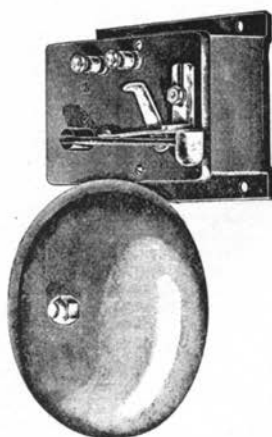
The magnets and armature are so arranged that the armature is strongly attracted from a greater distance than ordinarily, which gives the hammer a long sweep, enabling it to strike powerful blows.

The hammer is attached to the rod by a strong, flat spring, which causes it to instantly leave the gong after striking it, making the signals clear and distinct.

The length of stroke and the tension are adjustable.

It can be arranged as a Single Stroke and Vibrating Bell, or as a Series Bell so arranged that at every stroke its magnets are cut out and the current shunted on to the line, enabling any number of bells to be operated in series.

		Single Stroke.		List Price.	
Cone Word.	List No.				
<i>Fide</i>	2483	2½	Gong		\$4.80
<i>Arnprior</i>	9310	3	"		5.00
<i>Armsbrook</i>	9311	4	"		6.00
<i>Arrington</i>	9312	5	"		6.50
<i>Faded</i>	2484	6	"		8.00
<i>Arroes</i>	9313	8	"		9.50
<i>Arripe</i>	9348	10	"		13.50
<i>Artesia</i>	9349	12	"		16.00
<i>Arthy</i>	9316	14	"		25.00
<i>Fadedly</i>	2485	16	"		32.00
<i>Fader</i>	2486	18	"		42.00
<i>Fudge</i>	2487	20	"		54.00
		Vibrating.			
<i>Feding</i>	2488	2½	Gong		5.80
<i>Fadue</i>	2489	3	"		6.00
<i>Fadonille</i>	2490	4	"		7.00
<i>Fady</i>	2491	5	"		7.50
<i>Fue</i>	2492	6	"		9.00
<i>Fuen</i>	2493	8	"		10.50
<i>Foeir</i>	2494	10	"		14.50
<i>Fuff</i>	2495	12	"		17.00
<i>Fuffe</i>	2496	14	"		26.00
<i>Fing</i>	2497	16	"		34.00
<i>Fingery</i>	2498	18	"		44.00
<i>Fngt</i>	2499	20	"		56.00
		Series.			
<i>Fuggery</i>	2500	2½	Gong		6.80
<i>Fuggu</i>	2501	3	"		7.00
<i>Fugin</i>	2502	4	"		8.00
<i>Fugguena</i>	2503	5	"		8.50
<i>Fugot</i>	2504	6	"		10.00
<i>Fugoting</i>	2505	8	"		11.50
<i>Fugs</i>	2506	10	"		15.50
<i>Fagus</i>	2507	12	"		18.00
<i>Fujoku</i>	2508	14	"		27.00
<i>Fuhum</i>	2509	16	"		35.00
<i>Fuhlband</i>	2510	18	"		45.00
<i>Fuhlerz</i>	2511	20	"		57.00



No. 4007.

Bells—(Continued.)

The Covered Single Stroke Bell.

A perfect signal bell for use in exposed places, as it is weather and dust proof.

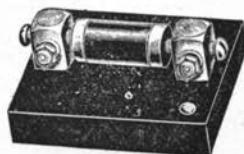
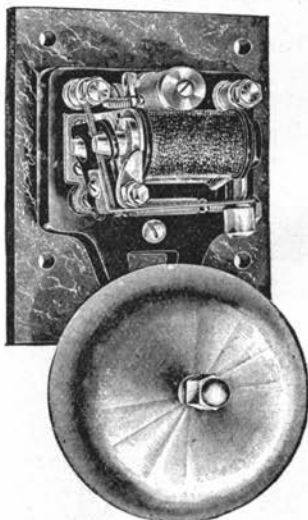
The magnets and armature are so arranged that the armature is strongly attracted from a greater distance than ordinarily, which gives the hammer a long sweep, enabling it to strike powerful blows.

All adjustments are made without removing cover.

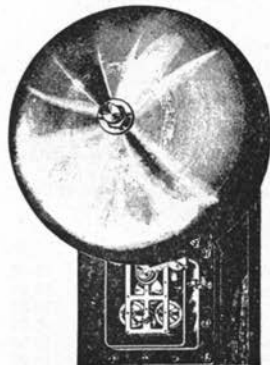
The hammer is attached to the rod by a strong, flat spring, which causes it to instantly leave the gong after striking it, making the signals clear and distinct.

It can be arranged as a Single Stroke and Vibrating Bell, or as a Series Bell so arranged that at every stroke its magnets are cut out and the current shunted on to the line, enabling any number of bells to be rung in series.

		Single Stroke.		List Price.
Code Word.	List No.			
<i>Fahntuiste</i>	4000	2½ Gong	.....	\$5.80
<i>Fahrenheit</i>	4001	3 "	.....	6.00
<i>Faible</i>	4002	4 "	.....	7.00
<i>Faience</i>	4003	5 "	.....	7.50
<i>Faith</i>	4004	6 "	.....	9.00
<i>Faith</i>	4005	8 "	.....	10.50
<i>Faithful</i>	4006	10 "	.....	14.50
<i>Faithful</i>	4007	12 "	.....	17.00
<i>Faithful</i>	4008	14 "	.....	26.00
<i>Faithful</i>	4009	16 "	.....	38.00
<i>Faithful</i>	4010	18 "	.....	43.00
<i>Faithful</i>	4011	20 "	.....	55.00
		Vibrating.		List Price.
<i>Faithful</i>	4012	2½ Gong	.....	6.80
<i>Faithful</i>	4013	3 "	.....	7.00
<i>Faithful</i>	4014	4 "	.....	8.00
<i>Faithful</i>	4015	5 "	.....	8.50
<i>Faithful</i>	4016	6 "	.....	10.00
<i>Faithful</i>	4017	8 "	.....	11.50
<i>Faithful</i>	4018	10 "	.....	15.50
<i>Faithful</i>	4019	12 "	.....	18.00
<i>Faithful</i>	4020	14 "	.....	27.00
<i>Faithful</i>	4021	16 "	.....	35.00
<i>Faithful</i>	4022	18 "	.....	45.00
<i>Faithful</i>	4023	20 "	.....	57.00
		Series.		List Price.
<i>Faithful</i>	4024	2½ Gong	.....	7.80
<i>Faithful</i>	4025	3 "	.....	8.00
<i>Faithful</i>	4026	4 "	.....	9.00
<i>Faithful</i>	4027	5 "	.....	9.50
<i>Faithful</i>	4028	6 "	.....	11.00
<i>Faithful</i>	4029	8 "	.....	12.50
<i>Faithful</i>	4030	10 "	.....	16.50
<i>Faithful</i>	4031	12 "	.....	19.00
<i>Faithful</i>	4032	14 "	.....	28.00
<i>Faithful</i>	4033	16 "	.....	36.00
<i>Faithful</i>	4034	18 "	.....	46.00
<i>Faithful</i>	4035	20 "	.....	58.00



No. 2789.



No. 2810.

Bells—(Continued.)

High Voltage Bells.

By means of special resistance we can arrange any of these bells to operate on high voltage direct currents up to 110 volts.

This resistance is compact, does not throw off hot particles, prevents contact points being burnt out, and is inexpensive.

This cut illustrates the Vigilant Bell arranged for 110 volt circuit.

Special Attachment and Resistance Blocks.

For High Voltage Bells.

When it is possible to equip a bell with the attachment, the resistance is mounted directly on the bell without using an additional slate base, and it is also in a different form from that used on the bell.

Code Word.	List No.	List Price Each
<i>Falconidae</i>	2788 Resistance attachment on bell.....	\$3.00
<i>Falconine</i>	2789 Resistance block on slate base.....	2.50

Specify the voltage to be used or the resistance desired when ordering.

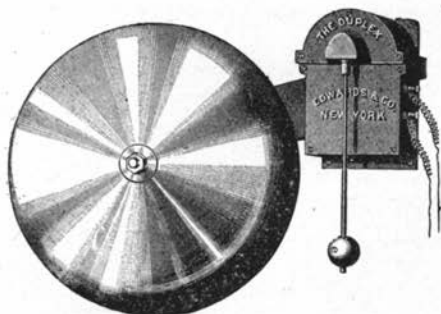
Electro-Mechanical Gong.

For use in exposed places. Very heavy mechanism and designed to stand hard and rough usage. Encased in iron box mounted on heavy wooden base.

Operated by two (2) powerful springs which are wound with one arbor so that one spring alone cannot be wound. Can be furnished single stroke or continuous ringing. Two hundred blows at each winding.

<i>Falconoid</i>	2810	22 inch.....	192.00
<i>Falcoopera</i>	2811	24 inch.....	254.22
<i>Falcular</i>	2812	30 inch.....	310.70
<i>Faclulate</i>	2813	36 inch.....	364.78

Bells—(Continued.)



No. 2963.

The Duplex Interval Strike Vibrating Bell.

Loud ringing, direct acting, simple.

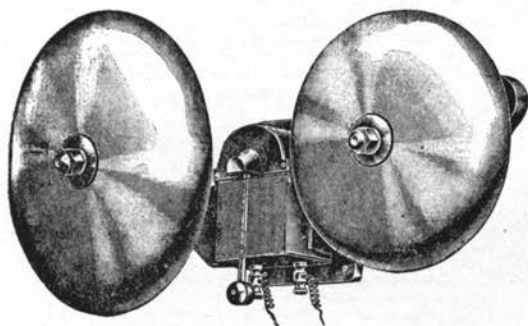
Will operate in or out of doors under any conditions.

The hammer is first drawn from the gong and accumulating power strikes a heavy blow.

The vibrations are regulated by raising or lowering the hammer ball.

Where volume of sound is desired it is absolutely the best.

Code Word.	List No.		List Price
<i>Fallwonder</i>	2963	4 inch	\$11.00
<i>Fallowforth</i>	2964	6 "	13.50
<i>Falltrank</i>	2965	8 "	15.00
<i>Falsarium</i>	2966	10 "	17.00
<i>Falsary</i>	2967	12 "	22.00
<i>False</i>	2968	14 "	26.00
<i>Falsely</i>	2969	16 "	30.00
<i>Falsehood</i>	2970	18 "	36.00



No. 2970.

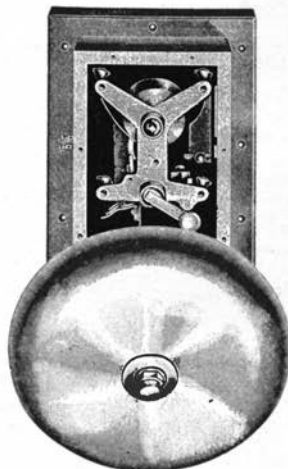
The Bi-Gong.

The mechanism is the same as the "Duplex," but two gongs are struck alternately. Being different in size the gongs give different tones so that the sound can be heard from a great distance.

A greater difference in sizes of gongs if desired.

<i>Falsenon</i>	2971	6 inch and 8 inch gong	18.50
<i>Falsetto</i>	2972	8 " " 10 " "	23.00
<i>Falsettist</i>	2973	10 " " 12 " "	26.00
<i>Falsifaction</i>	2974	12 " " 14 " "	30.00
<i>Falsifier</i>	2975	14 " " 16 " "	40.00
<i>Falter</i>	2979	16 " " 18 " "	56.00

Bells—(Continued.)



No. 2936.

Electro Mechanical Gong.

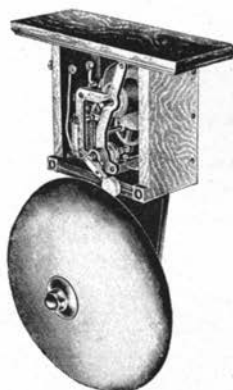
For Use Indoors.

Handsomely finished in polished wood.
The mechanism is very powerful and gives 375 blows to each winding.

Continuous ringing or single stroke.

10 Ohms Resistance.

Code Word.	List No.		List Price.
<i>Fold</i>	2936	8 inch.....	\$34.00
<i>Folding</i>	2937	10 ".....	36.00
<i>Foldring</i>	2938	12 ".....	40.00
<i>Folding</i>	2939	14 ".....	45.00
<i>Foldring</i>	2940	15 ".....	47.00
<i>Folk</i>	2941	16 ".....	51.00
<i>Folk</i>	2942	18 ".....	56.00



No. 2950.

Electro Mechanical Gong.

For Use Indoors.

Encased in heavy hardwood box, highly polished.
The mechanism is exceptionally good. The pinions and shafts are solid steel, tempered. The wheels are heavy cast bronze and finely cut. While any of these bells may be operated in conjunction with any fire alarm system, this is constructed more especially for the hard usage contingent to this class of work.

Can be furnished single stroke or continuous ringing.
400 blows to each winding.

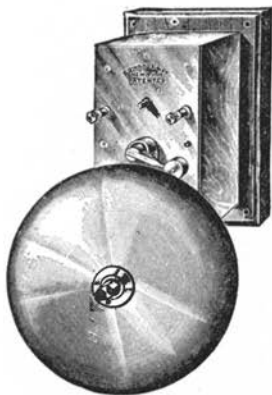
For Gongs from 12 to 20 in., any Resistance.

<i>Fall</i>	2950	12 inch.....	\$72.28
<i>Fallacious</i>	2951	14 ".....	76.00
<i>Fallacy</i>	2952	15 ".....	84.00
<i>Fallat</i>	2953	16 ".....	96.12
<i>Fallotish</i>	2954	18 ".....	112.50
<i>Fallen</i>	2955	20 ".....	136.50

Bells—(Continued.)**Electro Mechanical Gong.****For Use Indoors.**

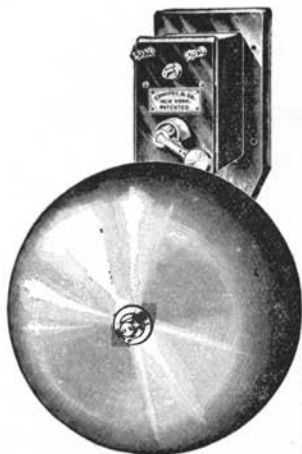
The gong and front are nickel plated. The entire mechanism is attached to the front plate and encased in a polished hardwood box. By removing the three screws which hold the front plate to the box, the entire mechanism may be removed.

Can be furnished single stroke or continuous ringing.
For gongs from 4 to 9 inches.
200 blows to each winding.

Wound to 10 Ohms.

No. 4018.

Code Word.	List No.	List Price.
<i>Falante</i>	4048 5 inch.....	\$21.00
<i>Falces</i>	4049 6 ".....	22.00
<i>Falchion</i>	4050 8 ".....	25.00
<i>Faltridian</i>	4051 9 ".....	26.50



No. 2956.

Electro Mechanical Gong.**For Use in Exposed Places.**

It is entirely encased in iron and is weatherproof.
The mechanism is very powerful and gives 375 blows to each winding.

Continuous ringing or single stroke.

10 Ohms Resistance.

<i>Fuller</i>	2956 8 inch.....	\$30.00
<i>Fullish</i>	2957 10 ".....	32.00
<i>Fullibility</i>	2958 12 ".....	36.00
<i>Fullibness</i>	2959 14 ".....	41.00
<i>Falling</i>	2960 15 ".....	43.00
<i>Fallow</i>	2961 16 ".....	47.00
<i>Fallowness</i>	2962 18 ".....	56.00

Bells—(Continued.)

Electro Mechanical Gongs.

(PATENTED.)

Dust, Insect and Moisture Proof.

When the hammer is released it makes a full revolution passing under the gong to an inclined plane, where it is raised and strikes the gong with the great force gathered in the revolution: the recoil causes it to drop and be locked in its normal position under the gong. The full force of the blow being spent on the gong, there is no strain on the mechanism. The locking and releasing by means of an eccentric makes a positive action and leaves the armature free from any pressure or strain and enables it to be operated by a very low current.

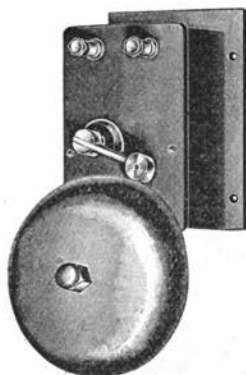
The four styles of this gong are constructed on the same general principles and can be arranged to operate as a single stroke or constant ringing gong on open or closed circuit.

State what the gong is to be used for and it will be constructed to meet the exact requirements.

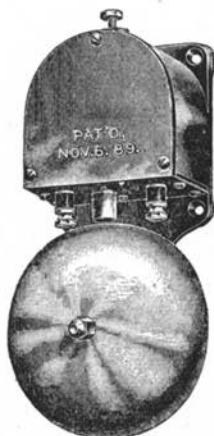
For use in exposed places.

The gong, hammer and binding posts are nickel plated; the box is japanned and is absolutely water and dust proof.

Can be furnished single stroke or continuous ringing. 200 blows to each winding.



No. 4044.



No. 4036.

Code Word.	List No.	10 Ohms Resistance.	List Price.
<i>Falansterian</i>	4044	3 inch.....	\$8.50
<i>Falanx</i>	4045	4 ".....	9.50
<i>Falbalu</i>	4046	5 ".....	11.00
<i>Falonde</i>	4047	6 ".....	12.00
For higher resistance add \$1.00.			

The "Rectl."

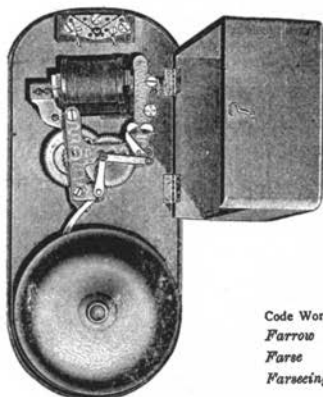
A Weatherproof Vibrating Bell.

The vibrations are rapid and regular; the contact points are platinum.

The hammer rod operates in a straight line through the case and does not project, so that it cannot be bent or tampered with, and is not pivoted but is thrown by the armature.

Being entirely enclosed it is water, dust and insect proof, and, as the frame is insulated, any number of these bells may be placed on iron or other conducting material without grounding.

<i>Fake</i>	4036	3 inch.....	\$5.00
<i>Fakement</i>	4037	4 ".....	6.00
<i>Faker</i>	4038	5 ".....	6.50
<i>Fakin</i>	4039	6 ".....	8.00
<i>Fakriem</i>	4040	8 ".....	9.50
<i>Fakrofs</i>	4041	10 ".....	13.50
<i>Fala</i>	4042	12 ".....	16.00
<i>Falanaku</i>	4043	14 ".....	25.00

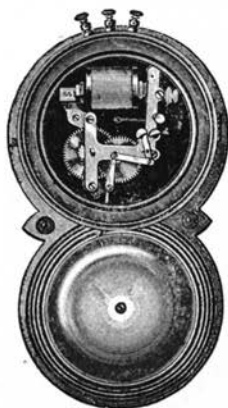


No. 4153.

Bells—(Continued.)**Electro Mechanical Gong.****In Plain Case.**

Strikes 375 blows with one winding.

Code Word.	List No.	List Price.
<i>Farrow</i>	4152 5 inch taper	\$15.00
<i>Faree</i>	4153 6 " "	15.00
<i>Farsceing</i>	4154 7 " "	17.50



No. 4155.

Electro Mechanical Gong.**In Ornamental Case, Fine Finish.**

This gong contains the same movement as the plain-cased gong, but is mounted in an ornamental black walnut case, with glass front.

Made only in 6 inch size.

<i>Farsighted</i>	4155 Each	16.50
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Bells—(Continued.)

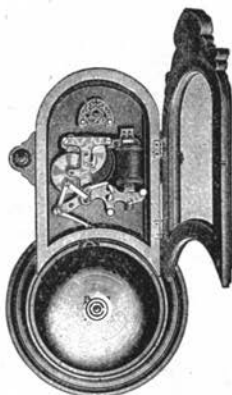
Electro Mechanical Gong.

These gongs have handsomely finished brass movements, with steel pinions and hardened detents. The magnets are wound with silk covered wire to any resistance required.

May be used on either an open or closed circuit.

Made usually in finely finished black walnut. Finished in oak if preferred.

These bells will work in connection with any Fire Alarm system.



No. 4154.

Code Word.	List No.		List Price.
<i>Farstretched</i>	4156	8 inch gong, strikes 225 blows, one winding.	\$30.00
<i>Farzure</i>	4157	10 " " " 225 " " "	35.00
<i>Farthel</i>	4158	12 " " " 225 " " "	40.00
<i>Farther</i>	4159	14 " " " 175 " " "	45.00
<i>Farthermos</i>	4160	16 " " " 175 " " "	50.00
<i>Farthest</i>	4161	18 " " " 175 " " "	55.00
<i>Fartherane</i>	4162	20 " " " 175 " " "	60.00

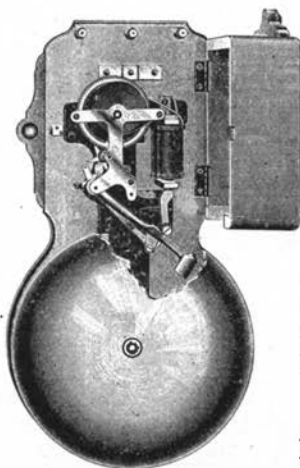
The Star Electro Mechanical Gong.

Strikes 300 blows with one winding.

This instrument is provided with lightning arrester, and is mounted in handsomely finished black walnut or oak case, with glass front.

Open or closed circuit or continuous ringing attachments are furnished without additional cost.

When orders do not state resistance we shall send 10-ohm gongs made for open circuit.



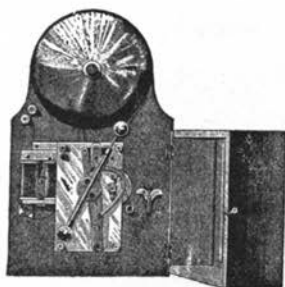
No. 4163.

Wound from 8 to 10 ohms Resistance.

<i>Farthing</i>	4163	8 inch gong	20.00
<i>Farthingal</i>	4164	10 " "	27.00
<i>Farynz</i>	4165	12 " "	30.00
<i>Fasces</i>	4166	14 " "	35.00
<i>Fascet</i>	4167	15 " "	36.00
<i>Fascial</i>	4168	18 " "	48.00

Wound from 15 to 30 ohms Resistance.

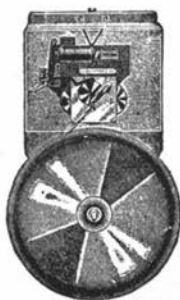
<i>Fasciate</i>	4169	8 inch gong	22.00
<i>Fasciated</i>	4170	10 " "	29.00
<i>Fasciation</i>	4171	12 " "	32.00
<i>Fascicle</i>	4172	14 " "	37.00
<i>Fasciculat</i>	4173	15 " "	38.00
<i>Fascicule</i>	4174	18 " "	50.00



No. 9320.

Electro-Mechanical Gongs.

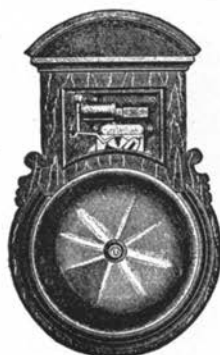
Code Word.	List No.		List Price.
<i>Archbald</i>	9320	8 inch gong, each.....	\$25.00
<i>Archib</i>	9321	10 " " "	26.00
<i>Arch</i>	9322	12 " " "	28.00
<i>Archie</i>	9323	14 " " "	30.00
<i>Arcola</i>	9324	16 " " "	40.00
<i>Arceola</i>	9325	18 " " "	48.00
<i>Aren</i>	9326	20 " " "	55.00



No. 9329.

Plain Case.

<i>Arensville</i>	013 1/2	0-inch gong, each.....	21.50
<i>Argenta</i>	014	8 " " "	22.75
<i>Argoe</i>	9329	10 " " "	25.00
<i>Aringer</i>	9330	12 " " "	28.00
<i>Ariosto</i>	9331	14 " " "	30.50
<i>Arkansas</i>	9332	15 " " "	31.50
<i>Arkville</i>	9333	18 " " "	40.00



No. 9334.

Ornamental Case.

<i>Arlington</i>	9334	6 inch gong, each.....	26.50
<i>Armada</i>	9335	8 " " "	28.75
<i>Armington</i>	9336	10 " " "	32.00
<i>Armona</i>	9337	12 " " "	35.00
<i>Armstrong</i>	9338	14 " " "	38.00
<i>Arnold</i>	9339	15 " " "	40.00
<i>Arno</i>	9340	18 " " "	50.00



No. 4178.

Combination Bell and Push Button.

This is the smallest and handsomest metal Combination Bell and Push Button manufactured. The size is $6\frac{1}{2} \times 2\frac{1}{2}$ inches. Still, within this limited space is placed a double adjusted bell made with platinum points which can be adjusted without removing it from the wall. The binding posts, of which there are three, are made with particular reference to obtaining security from loosening and the wire slipping from under the connections. The posts are fastened to the base with two screws riveted.

Wires coming from the wall are held securely under these binding posts by passing them through a hole in the post and then under the washer. This precludes any possibility of their loosening. Sufficient space, where it will not interfere with the working parts of the bell, is left in the metal case to coil away the surplus wire required in wiring.

The 3-point push in this bell is made in such a manner that the spring used to make the necessary closed contact will not become "set" and cause the bell to refuse to ring, as is liable to occur when care is not used in regard to this important detail. Do not fail to order this bell if you want the best one on the market.



No. 4179.

Code Word.
Fascine

List No.

4178 Each \$1.50

List Price.

Return Call Pear Push.

Hard rubber ends and nickel plated metal parts.

Arranged with three wires for call and return call.

When bell rings, the sounder operates, indicating that the bell is ringing, and when call is answered a rapid humming sound indicates it

Fascious

4179 3.00



No. 4180.

Combination Buzzer.

Round Pattern.

Solid Bronze. Screw Cap.

Diameter, $2\frac{1}{2}$ inches. Very Compact.

Fasciola 4180 Each 1.50



No. 2512

Bells—(Continued.)**Continuous Ringing Attachment.**

For use on Burglar Alarms and Call Bells. Neatly finished in nickel. Compact, positive and reliable. Is attached to the main line. The closing of the circuit causes the lever to drop and thus complete the circuit of the local battery, causing the bell to ring until the lever is raised into place.

Code Word.
Patiform

List No. 2512 For use with battery.....

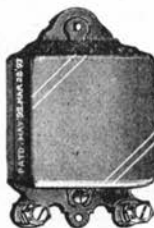
List Price.

\$1.20

No. 9341

Buzzers.*Artz*

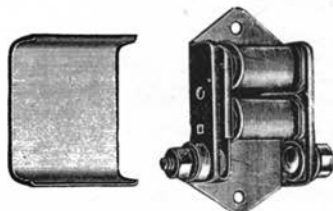
9341 Each 1.00



No. 9342

Arcuda
Falcinell
Ansburn

9342 Not pivoted, "No. 189," each..... .45
2513 With pivoted armature and adjusting spring,
Style II, each50
9343 With pivoted armature and adjusting spring,
Style I, each..... .60

Eco Buzzer.

No. 9344.

Needs no adjusting. Will operate equally well on one or ten cells of battery. There are no adjustment screws to be displaced. Contact points are platinized. The ribbed edges over the cover spring tightly over the base, making this buzzer absolutely dust and bug proof.

Code Word.	List No.	No. 0, Approximately	1 1/2 x 1/2 in.	List Price.
<i>Ashcroft</i>	9344	No. 0, Approximately	1 1/2 x 1/2 in.	\$0.66
<i>Falcon</i>	2632	" 1, "	2 x 1 in.	.70
<i>Falconette</i>	2633	" 2, "	2 1/2 x 1 1/2 in.	.70
<i>Falconer</i>	2634	" 3, "	2 1/2 x 1 1/2 in.	.60
<i>Falconnes</i>	2635	" 4, "	3 1/2 x 1 1/2 in.	.64

Watch Case Buzzer.

No. 4002.

Size 1/2 x 1 1/2 inches.

A perfectly adjusted Buzzer, placed in a well-nickelled brass box and fitted with blading posts on outside of case. The armature will not stick, which is a trouble frequently found in small metal buzzers. It is well adapted for use with telephones.

<i>Fascia</i>	4277	Price, each	.60
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No. 9346.

Bee Hive Buzzer.

<i>Ashford</i>	9346	Each	1.00
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Gongs.**Regular.**

No. 9358.

<i>Ashkum</i>	9358	1 1/2-inch, per dozen	.72
<i>Ashland</i>	9359	1 1/2 " "	.96
<i>Ashley</i>	9360	2 " "	1.08
<i>Ashmore</i>	9361	2 1/2 " "	1.56
<i>Ashtabula</i>	9362	3 " "	2.42
<i>Ashton</i>	9363	3 1/2 " "	3.06
<i>Ashuelot</i>	9364	4 " "	3.60
<i>Ashville</i>	9365	5 " "	6.05
<i>Asavia</i>	9366	6 " "	7.05
<i>Astor</i>	9367	7 " "	12.85
<i>Astoria</i>	9368	8 " "	15.60
<i>Asyl</i>	9369	9 " "	22.80
<i>Atchison</i>	9370	10 " "	27.96
<i>Atco</i>	9371	12 " "	43.20
<i>Atkins</i>	9372	14 " "	70.80



No. 9390.

Gongs—(Continued).**Standard Tea.**

Code Word	List No.	Diameter.	Height.	List Price.
<i>Alhose</i>	9390	2½ inch,	1¼ inch, per dozen	\$1.26
<i>Athol</i>	9007	2½ " "	1¼ " "	1.74
<i>Atkins</i>	9008	2½ " "	2¼ " "	2.34
<i>Atkinson</i>	9009	3½ " "	2¼ " "	3.24



No. 9373

Dome.

<i>Atlanta</i>	9373	2½ inch,	1¼ inch, per dozen	1.20
<i>Atlanti</i>	9374	3½ " "	1½ " "	2.52



No. 9375

Cup.

<i>Atles</i>	9375	2½ inch,	1¼ inch, per dozen	1.20
<i>Atoka</i>	9376	2½ " "	1¼ " "	1.56
<i>Atsion</i>	9377	2½ " "	1¼ " "	2.16
<i>Attalla</i>	9378	2½ " "	2¼ " "	2.28
<i>Attica</i>	9379	2½ " "	2¼ " "	2.40



No. 9384

Garland.

<i>Attleboro</i>	9384	2 inch,	2¼ inch, per dozen	1.44
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No. 9385

Mikado.

<i>Atwater</i>	9385	2½ inch,	1¼ inch, per dozen	1.62
<i>Atwood</i>	9351	2½ " "	1¼ " "	1.62
<i>Aubur</i>	9352	2½ " "	1¼ " "	1.68
<i>Auburndale</i>	9353	2½ " "	2 " "	1.92

Gongs—(Continued).**New Band.**

No. 9380

Code Word.	List No.	Diameter.	Height.	List Price
<i>Aucilla</i>	9380	2 $\frac{3}{8}$ -Inch	1 $\frac{3}{8}$ -Inch, per dozen.....	\$1.80
<i>Audenried</i>	9381	2 $\frac{3}{8}$ "	1 $\frac{7}{8}$ " " "	2.04
<i>Audubon</i>	9382	2 $\frac{1}{2}$ " "	1 $\frac{1}{2}$ " " "	2.04
<i>Audubon</i>	9448	2 $\frac{3}{4}$ " "	1 $\frac{3}{4}$ " " "	2.04



No. 9354.

Nutmeg.

		Diameter.	Height.	
<i>Augusta</i>	9354	1 $\frac{1}{2}$ -Inch	2-Inch.....	1.44



No. 9355.

Rectangular or Cow.

		Opening.	Height.	
<i>Aulville</i>	9355	1 $\frac{3}{4}$ x1 $\frac{1}{2}$ -Inch	1 $\frac{1}{2}$ -Inch, per dozen.....	1.98
<i>Aurelia</i>	9356	1 $\frac{1}{2}$ x2 $\frac{1}{8}$ "	1 $\frac{1}{2}$ " " "	2.16
<i>Ava</i>	9396	1 $\frac{1}{4}$ x2 $\frac{3}{8}$ "	2 " " "	2.64
<i>Averill</i>	9397	2 $\frac{1}{8}$ x2 $\frac{1}{4}$ "	2 $\frac{1}{8}$ " " "	3.36



No. 9398.

Octagonal.

		Diameter.	Height.	
<i>Avery</i>	9398	1 $\frac{1}{2}$ -Inch	1 $\frac{1}{4}$ -Inch, per dozen.....	1.02
<i>Avilla</i>	9399	1 $\frac{1}{4}$ " "	1 $\frac{1}{2}$ " " "	1.32*
<i>Avington</i>	9357	2 " "	1 $\frac{1}{4}$ " " "	1.80



No. 9011.

Sleigh.**WITHOUT JINGLES.**

		Diameter.	
<i>Atoca</i>	011	1 $\frac{1}{4}$ -Inch, per dozen.....	72
<i>Aton</i>	012	1 $\frac{1}{4}$ " " "	78

PUSH BUTTONS.



No. 9499

We have added a large number of new designs to our line of push buttons. We carry in stock over one hundred different patterns, each of which will take a large variety of finishes. All pushes are up to our standard in workmanship and we are prepared to meet every requirement of the trade.

Push buttons Nos. 9510, 9515, 9520, 9525, 9530, 9534, 9545, and 9555, have the style of back shown in illustration No. 9499. It will be readily seen that this is a great improvement over the old style.

We give below a list of different styles of finishes. The styles not given in price list are considered special and prices will be quoted on application

Finishes.

- | | |
|--------|-------------------------------------|
| No. 1. | Light Bronze |
| " 2. | Dark Bronze. |
| " 2½. | Polished Bronze: chocolate ground. |
| " 3. | Polished Bronze: black ground. |
| " 4. | Nickel Plated. |
| " 5. | Japanese Copper: smooth. |
| " 6. | Japanese Copper: black ground. |
| " 7. | Old Copper. |
| " 8. | Oxidized Silver. |
| " 9. | Dull Brass. |
| " 10. | Polished Brass. |
| " 11. | Polished Bronze. |
| " 12. | Polished Bronze: silver ground. |
| " 13. | Polished Bronze: red ground. |
| " 14. | Polished Bronze: terra-cotta ground |
| " 15. | Polished Bronze: dark-green ground |
| " 16. | Polished Bronze: olive-green ground |
| " 17. | Dull Silver. |
| " 18. | Burnished Silver. |
| " 19. | Japanese Silver. |
| " 20. | Bower Barff. |
| " 21. | Japanese Brass. |
| " 22. | Gold. |
| " 23. | Polished Bronze: blue ground. |
| " 24. | Partly Black. |



No. 9500.

Push Buttons—Continued).

Code Word.	List No.	List Price. Each
<i>Baconton</i>	9500	Light bronze.....\$.46
<i>Baden</i>	9501	Dark bronze..... .50
<i>Bader</i>	9502	Polished bronze, black ground ..... .54
<i>Badge</i>	9503	Japanese copper..... .60
<i>Badger</i>	9504	Old copper..... .50

Solid cap. Diameter $2\frac{7}{8}$ inches.

No. 9505.

<i>Baffle</i>	9505	Light bronze..... .40
<i>Bagdad</i>	9506	Dark bronze..... .40
<i>Baggage</i>	9507	Polished bronze, black ground ..... .42
<i>Bagging</i>	9508	Japanese copper..... .45
<i>Bail</i>	9509	Old copper..... .40

Solid cap. Diameter $2\frac{1}{4}$ inches.

No. 9510.

<i>Bailey</i>	9510	Light bronze..... .70
<i>Bainbridge</i>	9511	Dark bronze..... .75
<i>Baker</i>	9512	Polished bronze, black ground..... .75
<i>Bakers</i>	9513	Japanese copper..... .80
<i>Bakersport</i>	9514	Old copper..... .75

Screw cap. Diameter $2\frac{1}{8}$ inches.

No. 9515.

<i>Bakersville</i>	9515	Light bronze..... .75
<i>Baldwin</i>	9516	Dark bronze..... .80
<i>Ballard</i>	9517	Polished bronze, black ground..... .80
<i>Ballantrae</i>	9518	Japanese copper..... .85
<i>Ballona</i>	9519	Old copper..... .80

Screw cap. Diameter $2\frac{1}{4}$ inches.



No. 9523.

Push Buttons—(Continued)

Code Word.	List No.	List Price. Each.
<i>Ballston</i>	9520	Light bronze.....\$.90
<i>Balm</i>	9521	Dark bronze......95
<i>Balm</i>	9522	Nickel plated..... 1.00
<i>Balmers</i>	9523	Japanese copper..... 1.00
<i>Balsam</i>	9524	Old copper......95

Screw cap. Diameter, $2\frac{1}{8}$ inches.

No. 9525.

<i>Baltic</i>	9525	Light bronze..... .90
<i>Baltimore</i>	9526	Dark bronze..... .95
<i>Baluster</i>	9527	Polished bronze, black ground..... .95
<i>Balustrade</i>	9528	Japanese copper..... 1.00
<i>Bamberg</i>	9529	Old copper......95

Screw cap. Diameter, $2\frac{1}{8}$ inches.

No. 9440.

<i>Bamboo</i>	9440	Light bronze..... .75
<i>Banana</i>	9441	Dark bronze..... .80
<i>Band</i>	9442	Polished bronze, black ground..... .80
<i>Bandage</i>	9443	Japanese copper..... .85
<i>Bandana</i>	9534	Old copper..... 1.80

Screw cap. Diameter, $2\frac{1}{8}$ inches.

No. 9535.

<i>Bangor</i>	9535	Light bronze..... .80
<i>Bank</i>	9536	Dark bronze..... .80
<i>Banker</i>	9445	Polished bronze, black ground..... .85
<i>Bankable</i>	9446	Japanese copper, black ground..... .90
<i>Bantas</i>	9447	Old copper......80

Screw cap. Diameter, 3 inches.



No. 9453.

Push Buttons—(Continued).

Code Word.	List No.	List Price Each.
<i>Baraboo</i>	9450	Light bronze.....\$.60
<i>Baranca</i>	9451	Dark bronze......65
<i>Barbours</i>	9452	Nickel-plated .....70
<i>Barclay</i>	9453	Japanese copper.....70
<i>Bard</i>	9454	Old copper......65

Screw cap. Diameter 2 in.



No. 9455.

<i>Bardolph</i>	9455	Light bronze..... .55
<i>Bardstoun</i>	9456	Dark bronze..... .60
<i>Barcla</i>	9457	Polished bronze, black ground......60
<i>Baring</i>	9458	Japanese copper......65
<i>Barkley</i>	9459	Old copper......60

Screw cap. Diameter 2 in.



No. 9464.

<i>Barnard</i>	9464	Light bronze ..... .50
<i>Barnegat</i>	9465	Dark bronze..... .55
<i>Barneston</i>	9466	Polished bronze, black ground......55
<i>Barnesville</i>	9467	Japanese copper......60
<i>Barnitz</i>	9469	Old copper......55

Screw cap. Diameter 2 in.



No. 9470.

<i>Barnum</i>	9470	Light bronze..... .50
<i>Barnuell</i>	9471	Dark bronze..... .50
<i>Barree</i>	9472	Nickel plated ..... .55
<i>Barrel</i>	9473	Japanese copper......60
<i>Barretille</i>	9474	Old copper......50

Screw cap. Diameter 2 in.



No. 9430.

Push Buttons—(Continued).

Code Word.	List No.		List Price Each.
<i>Barrett</i>	9430	Light bronze.....	.50
<i>Barrie</i>	9431	Dark bronze.....	.55
<i>Barrington</i>	9432	Polished bronze, black ground.....	.60
<i>Barron</i>	9433	Japanese copper, black ground.....	.60
<i>Barrow</i>	9434	Old copper.....	.55

Midget back. $2\frac{1}{8}$ inches square.

No. 9435.

<i>Barry</i>	9435	Light bronze.....	.90
<i>Barrytown</i>	9436	Dark bronze.....	.95
<i>Barstow</i>	9437	Nickel plated.....	1.00
<i>Barthogue</i>	9438	Japanese copper, black ground.....	1.00
<i>Bartle</i>	9439	Old copper.....	.95

Screw cap. Diameter, $2\frac{1}{4}$ inches.

No. 9475.

<i>Bartlett</i>	9475	Light bronze.....	.60
<i>Barto</i>	9476	Dark bronze.....	.60
<i>Barton</i>	9477	Polished bronze, black ground.....	.65
<i>Bartonville</i>	9478	Japanese copper.....	.70
<i>Basco</i>	9479	Old copper.....	.60

Solid cap. Diameter, $2\frac{1}{8}$ inches

No. 9480.

<i>Basi</i>	9480	Light bronze.....	.75
<i>Basil</i>	9481	Dark bronze.....	.80
<i>Bassett</i>	9482	Polished bronze, black ground.....	.85
<i>Bastrop</i>	9483	Japanese copper.....	.90
<i>Batavia</i>	9484	Old copper.....	.80

Screw cap. Diameter, $2\frac{1}{8}$ inches.



No. 9485

Push Buttons—(Continued).

Code Word.	List No.	List Price. Each.
<i>Batesburg</i>	9485 Light bronze.....	\$.60
<i>Batesville</i>	9486 Old-copper.....	.65
<i>Bath</i>	9487 Nickel plated .....	.70
	Solid cap. Diameter $2\frac{1}{4}$ inches.	



No. 9488

<i>Bathurst</i>	9488 Light bronze.....	.36
	Solid cap. Diameter $2\frac{1}{4}$ inches.	



No. 9489

<i>Batteaux</i>	9489 Light bronze.....	.60
	Screw cap. Diameter $2\frac{1}{4}$ inches.	



No. 9490

<i>Battleboro</i>	9490 Light bronze.....	.80
<i>Baucum</i>	9566 Old copper.....	.85
<i>Bévarin</i>	9567 Nickel plated .....	.90
	Screw cap Diameter $2\frac{1}{4}$ inches	



No. 9491.

Push Buttons—(Continued).

Code Word	List No.	List Price Each.
<i>Bazley</i>	9491 Light bronze.....	\$.60
<i>Baxter</i>	9492 Polished bronze, black ground.....	.65
<i>Bayard</i>	9572 Nickel plated.....	.70
<i>Baylis</i>	9573 Old copper.....	.65

Solid cap. Diameter $2\frac{1}{4}$ inches.

No. 9575.

<i>Bayonne</i>	9575 Light bronze.....	.80
<i>Bayshore</i>	9576 Polished bronze, black ground.....	.85
<i>Bea</i>	9577 Nickel plated.....	.90
<i>Beaco</i>	9578 Old copper.....	.85

Screw cap. Diameter $2\frac{1}{2}$ inches.

No. 9580.

<i>Bead</i>	9580 Light bronze.....	.80
<i>Beaman</i>	9581 Polished bronze, black ground.....	.85
<i>Beamis</i>	9582 Nickel plated.....	.90
<i>Beardsmore</i>	9583 Old copper.....	.85

Screw cap. Diameter $2\frac{1}{4}$ inches.

No. 9585.

<i>Beardsley</i>	9585 Light bronze.....	.80
<i>Beartown</i>	9493 Polished bronze, black ground.....	.85
<i>Beatty</i>	9587 Nickel plated.....	.90
<i>Beatrice</i>	9588 Old copper.....	.85

Screw cap. Diameter $2\frac{1}{4}$ inches.



No. 9590.

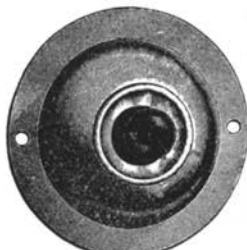
Push Buttons—(Continued).

Code Word.	List No.	List Price. Each.
<i>Beattie</i>	9590 2½-inch diameter.....	\$.65
<i>Beaumont</i>	9591 2½ " " .....	.80
	Screw cap. Bronze, black inlaid.	



No. 9592.

<i>Beaumont</i>	9592 Bronze.....	.66
	Screw cap Diameter, 2½ inches.	



No. 9595.

<i>Beauregard</i>	9595 Light bronze.....	.30
<i>Beas</i>	9596 Dark bronze.....	.30
<i>Beaverton</i>	9597 Polished bronze, black ground.....	.30
<i>Beaertown</i>	9598 Japanese copper.....	.30
<i>Bechtel</i>	9599 Old copper.....	.30
	Solid cap. Stamped. Diameter, 2½ inches.	



No. 9600.

<i>Becket</i>	9600 Light bronze.....	.30
<i>Bedford</i>	9601 Dark bronze.....	.30
<i>Beechwood</i>	9602 Polished bronze, black ground.....	.30
<i>Beede</i>	9603 Japanese copper.....	.30
<i>Beeson</i>	9604 Old copper.....	.30
	Solid cap. Stamped. Diameter, 2½ inches.	



No. 9605.

Push Buttons—(Continued).

Code Word.	List No.	List Price. Each.
<i>Beeville</i>	9605 Polished bronze, black inlaid.....	.36
	Solid cap. Diameter, 2¼ inches.	



No. 9497.

<i>Bekkrevies</i>	9497 Polished bronze, black inlaid.....	.80
	Screw cap. Diameter, 2¼ inches.	



No. 9607.

<i>Belair</i>	9607 Polished bronze, black inlaid.....	.36
	Solid cap. Diameter, 2¼ inches.	



No. 9608.

<i>Belcher</i>	9608 Bronze.....	.36
	Solid cap. Diameter, 2¼ inches.	



No. 9610.

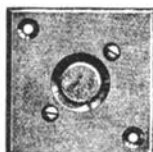
<i>Belden</i>	9610 Light bronze.....	.65
<i>Belfast</i>	9611 Dark bronze.....	.70
<i>Belgium</i>	9612 Nickel plated.....	.75
<i>Belgrade</i>	9613 Japanese copper.....	.70
<i>Belington</i>	9614 Old copper.....	.70
	Solid cap. Diameter, 2½ inches.	



No. 9617.

Push Buttons—(Continued).

Code Word.	List No.	List Price Each.
<i>Belledane</i>	9617 Nickel plated.....	\$.55.
	Pearl center. $2\frac{1}{8} \times 3\frac{1}{4}$ inches.	



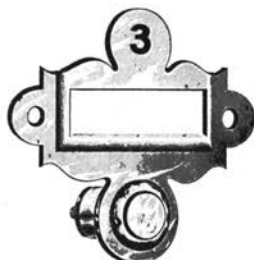
No. 9625.

<i>Bellmore</i>	9625 Nickel plated .....	.55
<i>Bellton</i>	9626 Oxidized silver.....	.70
<i>Bellwood</i>	9627 Gilt .....	.90
	1 $\frac{1}{2}$ inches square.	



No. 9628.

<i>Belmont</i>	9628 1 Button .....	.75
<i>Belmore</i>	9629 2 Button	3.00
	Face of push, mother-of-pearl, light or dark.	



No. 2982.

Name Plate Push.

Nickel Plated.

Fitted with Pearl Center Desk Push.

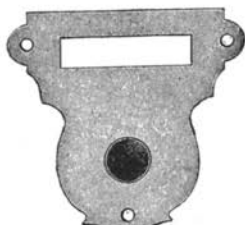
<i>Famacide</i>	2982 Size $2\frac{1}{2} \times 3\frac{1}{2}$ in., without number.....	.75
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Number stamped as above 5 cents extra, net.

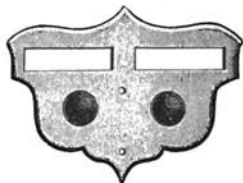
Other finishes to order.



No. 9630.



No. 9635.



No. 9636



No. 9637.

Push Buttons—(Continued).

Code Word.	List No.	List Price. Each.
<i>Beloit</i>	9630 Light bronze.....	\$.40
<i>Belpre</i>	9631 Dark bronze.....	.45
<i>Beleiders</i>	9632 Nickel plated.....	.50
<i>Bement</i>	9633 Japanese copper.....	.50
<i>Bemis</i>	9495 Old copper.....	.45
Solid cap. Diameter, 2x2¼ inches.		

Single Name Plate Push.

<i>Benedi</i>	9635 Bronze.....	.60
2½x2¼ inches.		

Double Name Plate Push.

<i>Benicia</i>	9636 Bronze.....	.80
3¼x3 inches.		

Combination Push.

<i>Bennett</i>	9637 Round, nickel plated.....	.40
<i>Bennington</i>	9638 Round, bronze.....	.40
<i>Benson</i>	9639 Square, nickel plated.....	.40
<i>Bensonville</i>	9640 Square, bronze.....	.40

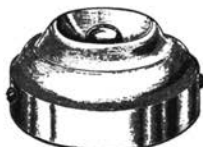
A thimble fits in outer shell into which is pressed midget push No. 9709.



No. 9041.



No. 9050.



No. 9059.



No. 9060.



No. 9065.

Push Buttons—Continued).

Code Word.	List No.	List Price. Each.
<i>Benton</i>	9641 Natural oak.....	\$.15
<i>Benswood</i>	9642 Antique oak.....	.15
<i>Berkley</i>	9643 Walnut.....	.15
<i>Berkley</i>	9644 Ash.....	.15
<i>Berkshire</i>	9645 Cherry.....	.15
<i>Bert</i>	9646 Mahogany.....	.18
<i>Bermuda</i>	9647 Rosewood.....	.18

Diameter 2 inches.

<i>Berea</i>	9650 Natural oak.....	.15
<i>Berger</i>	9651 Antique oak.....	.15
<i>Berholz</i>	9652 Walnut.....	.15
<i>Bernice</i>	9653 Ash.....	.15
<i>Bernie</i>	9654 Cherry.....	.15
<i>Berryville</i>	9655 Mahogany.....	.18
<i>Bertholio</i>	9656 Rosewood.....	.18

Diameter 2½ inches.

<i>Berthier</i>	9659 Alabaster.....	.36
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Diameter 2½ inches.

<i>Berwick</i>	9660 Light bronze.....	.70
<i>Bessemer</i>	9661 Dark bronze.....	.70
<i>Best's</i>	9662 Nickel plated.....	.70
<i>Bethany</i>	9657 Japanese copper.....	.80
<i>Bethel</i>	9664 Old copper.....	.70

Screw cap. Diameter 2⅞ inches.

<i>Bethesda</i>	9665 Light bronze.....	.70
<i>Bethlehem</i>	9666 Dark bronze.....	.70
<i>Betterton</i>	9667 Nickel plated.....	.70
<i>Beulah</i>	9668 Japanese copper.....	.80
<i>Bevely</i>	9669 Old copper.....	.70

Screw cap. Diameter 2⅞ inches.



No. 9670.

Push Buttons—(Continued).

Code Word	List No.	List Price. Each.
<i>Bevier</i>	9670 Nickel plated.....	\$.70
<i>Beverington</i>	9671 Bronze.....	.70



No. 9675.

<i>Biddford</i>	9675 Oak.....	.50
<i>Bigelow</i>	9676 Cherry.....	.50
<i>Billin</i>	9677 Walnut.....	.50
<i>Bingen</i>	9678 Rosewood.....	.50



No. 9680.

<i>Bingham</i>	9680 Oak.....	.50
<i>Binghampton</i>	9681 Cherry.....	.50
<i>Birchton</i>	9682 Walnut.....	.50
<i>Birmingham</i>	9496 Rosewood.....	.50
<i>Fulteringly</i>	2980 Hard Rubber.....	1.75



No. 9685.

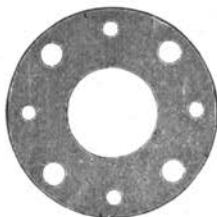
<i>Bisbee</i>	9685 Walnut.....	.75
<i>Blackberry</i>	9686 Oak.....	.75
<i>Blackburn</i>	9687 Cherry.....	.75
<i>Folz</i>	2981 Hard Rubber.....	2.75



No. 9690.

Push Buttons—(Continued.)

Code Word.	List No.	List Price
<i>Blarkahear</i>	9690 Gold bronze	\$0.50
<i>Blaine</i>	9691 Antique Brass.....	.50
<i>Blair</i>	9692 Nickel plated .....	.50
<i>Blkrly</i>	9693 Japanese Copper .....	.50



Escutcheons.

These plates are for use with the Midget and Midget, Jr., pushes on plaster, etc.

A number of screw holes in one makes it easy to catch the latch with screws through one of these holes. This is screwed on first. The other is placed over it and the button is then slipped into the large hole. The spring clip holds it securely in place and the rim of the button holds the top escutcheon in position.



<i>Famatinite</i>	2983 Price complete, both plates12
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In ordering state with which button they are to be used.

Midget Pushes.

Fits in $\frac{1}{2}$ inch hole.

No screws needed to fasten it, as the spring clips hold it securely in place.

Furnished without lettering.

The centers are made in red, white, black and blue, and as they cannot turn, are especially adapted to being lettered.

The wire connections will take any size wire and hold it securely.



No. 2984.



Front view—Lettered. Rear view.

<i>Famblt</i>	2984 White center .....	.24
<i>Famblcrup</i>	2985 Black center.....	.24
<i>Fams</i>	2986 Red center.....	.34
<i>Famful</i>	2987 Blue center.....	.34
<i>Famless</i>	2988 Pearl center .....	.34

Lettering, per button, extra, 12 cents.

Push Buttons—(Continued.)



No. 9700.



No. 4032.



No. 9703.



No. 9708.



No. 4058.



No. 2890.



No. 4060.



No. 4059.

Mite Push.

Fits in $\frac{1}{4}$ inch hole.

Code Word.	List No.	List Price.
<i>Blondin</i>	9700 Brass	\$0.30
	Hard rubber center.	

Midget, Jr., Push.

Fits in $\frac{1}{4}$ inch hole.

Same style as No. 2984, but smaller. Light and dark pearl, red, white, black or blue celluloid centers.

Wire connections take any size wire and holds it securely.

<i>Familiar</i>	4052 White center	.24
<i>Familiarly</i>	4053 Black center	.24
<i>Familiarist</i>	4054 Dark Pearl center	.26
<i>Familiarity</i>	4055 Light Pearl center	.28
<i>Familiarous</i>	4056 Red center	.40
<i>Familly</i>	4057 Blue center	.40

Lettering on celluloid centers, per button, 12 cents.

<i>Bloomville</i>	9703 Oak	.30
<i>Blodgett</i>	9704 Ash	.30
<i>Boon</i>	9705 Walnut	.30
<i>Bodun</i>	9706 Mahogany	.30
<i>Bones</i>	9707 Rosewood	.30

Diameter, 1 inch at base.

<i>Boligee</i>	9708 Hard rubber	.40
	Diameter, 1 inch at base.	

New Mite Push.

The smallest push made. Fits in $\frac{1}{4}$ inch hole, is $\frac{1}{4}$ inch deep and the face is $\frac{1}{4}$ inch in diameter.

The wire connectors will take any size wire, and hold it securely in place. The spring clips on side of barrel hold it securely in place.

<i>Panellet</i>	2889 Pearl Center	.20
<i>Panel</i>	2890 Celluloid Center	.20

Hub Push.

Fits in $\frac{1}{4}$ inch hole.

<i>Famine</i>	4058 Hub Push, each	.30
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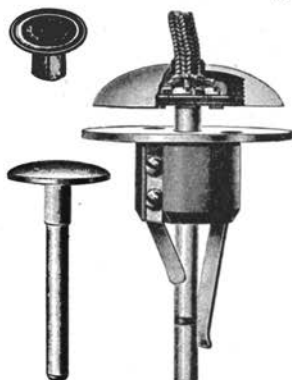
Office Desk Push.

Fits in $\frac{1}{4}$ inch hole. Pearl button.

<i>Famish</i>	4059 Office Desk Push, each	.36
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Number Plate for Desk Push.

<i>Famous</i>	4060 Plate, without stamping, each	.05
	Stamping extra.	



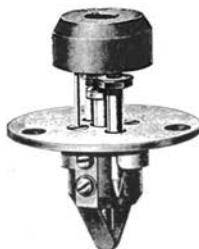
No. 4062.

Cap cut away, showing connections.



Eyelet Tool.

No. 4064.



No. 4065.

Push Buttons—(Continued.)**The Dandy Floor Push.**

It is impossible to break the top of this push, for, owing to its rounding shape it allows a table leg coming in contact with it to roll over it without doing any damage. If the cord is pulled hard it will not break the small conducting wires, because a knot can be made in the flexible cord under the cap.

Only one hole is required in the floor plate for both plugs, which in use pass through an eyelet that has been pressed through and easily fastened in the carpet or rug without breaking the strands. The eyelet used in the rug enables one to easily find the floor-push plate when the rug is replaced after cleaning. The portion inserted in the floor is securely held, as it exactly fills the hole. The distance between floor plate and top is adjustable, and a rubber bushing is used where cord passes through the cap.

Code Word	List No.	List Price
<i>Famousness</i>	4062 Each, including plugs and eyelets.....	\$1.00
<i>Famap</i>	4063 Combination Floor Push, including Dandy Floor Push, two yards special cord and a Fancy Pear Push connected up, each.....	2.00

Eyelet Tool.

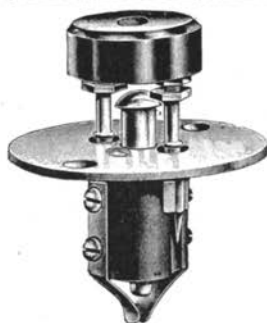
The Eyelet used with floor push illustrated above can be easily inserted in rugs or carpets with this tool without breaking the strands.

<i>Famular</i>	4064 Eyelet Tool, each.....	.20
----------------	-----------------------------	-----

Combination Floor Push.

Plate 2 inches in diameter.

<i>Famulate</i>	4065 Combination Floor Push	0.99
<i>Famulist</i>	4066 Combination Floor Push, fitted with two yards silk cord and No. 9680 plain Pear Push....	1.95
<i>Fan</i>	4067 Combination Floor Push, fitted with cord and No. 9712 Table Clamp.	2.55
<i>Fanal</i>	4068 Combination Floor Push, fitted with cord and No. 4070 Foot Push.....	3.00



No. 9710.



No. 9696.



No. 4069.



No. 4070.

Push Buttons—(Continued.)

Combination Floor Push.

Code Word	List No.	List Price
<i>Bohm</i>	9710 Push, only	\$.90
<i>Bonita</i>	9711 Complete, with 2 yards cotton cord and No. 9680 plain pear push button	2.00
<i>Bonn</i>	9713 Complete, with 2 yards silk cord and No. 9680 plain pear push button	2.20

Plain Floor Push.

2 inches long.

<i>Blenden</i>	9696 Nickel plated, each75
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Plain Floor Push.

Plate 2 inches in diameter.

<i>Panar</i>	4069 Floor Push, each60
--------------	-----------------------------	-----

Movable Foot Push.

Base, 3 inches diameter.

Many fitters prefer this style of Push to those made to be attached to the table, as it can be more easily moved from place to place, and the cord is not as liable to be broken. The metal portion of the push is nickel plated and mounted on a finely finished wood base.

It is very easy to connect up.

<i>Panariet</i>	4070 Foot Push, each75
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No. 4061.

Push Buttons—(Continued.)**Metal Table Clamp.**

Metal Table Clamp, Nickel Plated, complete with pearl center push button.

For use on dining tables, card tables, chairs, desks and other movable furniture.

Code Word
Famously

List No.

4061 Without cord.....

List Price

\$0.84



No. 9712.

Boone

9712 Without cord..... .75

Metal Table Clamp.

No. 9714

Movable Floor Push, with Plug Attachment.

NICKEL PLATED.

Boosa 9714, Complete, with 3 ft. cotton cord..... 1.70
Booshia 9715 " " 3 " silk " 1.90

Movable Floor Push, with Spring Jack Attachment.

NICKEL PLATED.

Borden 9716 Complete, with 3 ft. cotton cord..... 2.00
Boreas 9717 " " 3 " silk " 2.20



No. 9716

Cord for Movable Push Buttons.

Bordell 9718 Cotton, per foot..... .08
Bosnia 9719 Silk, " "12



No. 9720.

Push Buttons—Continued).

Code Word.	List No	List Price. Each.
<i>Boncell</i>	9720 Light bronze.....	\$.55
<i>Bosley</i>	9721 Dark bronze.....	.60
<i>Bostwick</i>	9722 Polished bronze, black ground.....	.60
<i>Bosco</i>	9723 Japanese copper, black ground.....	.65
<i>Dourbon</i>	9724 Old copper.....	.60

Midget back. 4x1 $\frac{1}{8}$ inches.

No. 9725.

<i>Boutte</i>	9725 Light bronze.....	.55
<i>Boulder</i>	9726 Dark bronze.....	.55
<i>Bowie</i>	9727 Polished bronze, black ground.....	.55
<i>Boyd</i>	9728 Japanese copper, black ground.....	.60
<i>Boyden</i>	9729 Old copper.....	.55

Midget back. 3 $\frac{3}{4}$ x1 $\frac{1}{8}$ inches.

No. 9730.

<i>Bradshaw</i>	9730 Light bronze.....	.60
<i>Brandon</i>	9731 Dark bronze.....	.65
<i>Brainerd</i>	9732 Polished bronze, black ground.....	.65
<i>Brayton</i>	9733 Japanese copper, black ground.....	.65
<i>Brazil</i>	9734 Old copper.....	.60

Solid cap. 3x1 $\frac{1}{8}$ inches.



No. 9735.

Push Buttons—(Continued).

Code Word.	List No.	List Price Each.
<i>Bradner</i>	9735	Light bronze.....\$.65
<i>Brandyneine</i>	9736	Dark bronze......70
<i>Bremond</i>	9737	Polished bronze, black ground......70
<i>Brewster</i>	9738	Japanese copper, black ground......75
<i>Brenham</i>	9739	Old copper......70

Solid cap. $4\frac{1}{4} \times 1\frac{1}{4}$ inches.

No. 9740.

<i>Breuton</i>	9740	Light bronze......60
<i>Breda</i>	9741	Dark bronze......65
<i>Bremen</i>	9742	Polished bronze, black ground......65
<i>Brewer</i>	9743	Japanese copper, black ground......70
<i>Bridgeton</i>	9744	Old copper......65

Solid cap. $5 \times 1\frac{1}{8}$ inches.

No. 9745.

<i>Brilliant</i>	9745	Light bronze......75
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Solid cap. $5\frac{1}{4} \times 1\frac{1}{4}$ inches.



No. 9750.

Push Buttons—(Continued).

Code Word.	List No.	List Price, Each.
<i>Britt</i>	9750 Flat.....	\$.65
<i>Brigden</i>	9751 Raised shell, loose back.....	.65
	3/8 x 1 1/8 inches.	



No. 9752.

<i>Brilliant</i>	9752 Light bronze.....	1.10
	Screw cap. 5/8 x 2 1/8 inches.	



No. 9755.

<i>Brice</i>	9755 Light bronze.....	.60
<i>Brigham</i>	9756 Dark bronze.....	.65
<i>Bright</i>	9757 Polished bronze, black ground.....	.70
<i>Brinston</i>	9758 Japanese copper, black ground.....	.70
<i>Brighton</i>	9759 Old copper.....	.65
	Solid cap. 5/8 x 3 1/8 inches.	



No. 4544.



No. 4545.

Pressed Metal Push Buttons.

The Push Buttons, Nos. 4544 to No. 4549, inclusive, are of pressed bronze, with German silver contacts mounted on black fibre backs. The centers used are of a high grade. The pushes carried in stock are finished in plain and oxidized copper, but will be finished to order in either inlaid black, old copper, bower barff, oxidized silver or sand copper at a small additional cost. The round push buttons are packed in boxes which contain one dozen, and the flat ones in boxes containing one-half dozen.

Size, 5 1-4 x 2 inches.

Open Back.

Code Word	List No.	List Price.
<i>Fere</i>	4544 (153)	Per Dozen. \$3.85

Size, 4 3-4 x 2 inches.

Open Back.

<i>Feretry</i>	4545 (154)	3.85
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No. 4546.



No. 4547.

Size, 4 3-4 x 2 inches.

Open Back.

<i>Ferforth</i>	4546 (155)	3.85
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Size, 4 x 2 inches.

Open Back.

<i>Feris</i>	4547 (156)	3.85
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No. 4548.



No. 4549.

Size, 4 x 2 inches.

Open Back.

<i>Ferier</i>	4548 (157)	3.85
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Size, 4 x 2 inches.

Open Back.

<i>Ferine</i>	4549 (158)	3.85
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Cast Bronze Push Buttons.

Size, 5 3-4 x 2 1-4 inches.



No. 4550.



No. 4551.

Code Word.
Ferinely

List No

4550 (213)

List Price.
Per Doz.
\$8.80

Size, 7 x 3 1-2 inches.

Feringet

4551

(214)

8.80

No. 4552.



No. 4553.

Size, 5 3-4 x 2 3-4 inches.

Ferio

4552

(216)

8.80

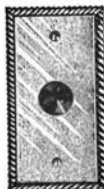
Size, 7 x 2 1-2 inches.

Ferison

4553

(217)

11.00



No. 9785.

Push Buttons—(Continued).

Code Word.	List No.	List Price Each.
<i>Burgess</i>	9785 Light bronze.....	\$.55
	Flush. $2\frac{3}{4} \times 1\frac{1}{2}$ inches.	



No. 9786.

<i>Burker</i>	9786 Light bronze, solid cap.....	.75
<i>Burton</i>	9787 " " screw cap.....	1.20
	9786 $4\frac{1}{4} \times 2\frac{1}{4}$ inches.	
	9787 $5\frac{1}{4} \times 3\frac{1}{4}$ inches.	



No. 9790.

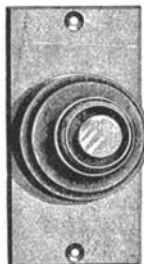
<i>Burnett</i>	9790 Light bronze.....	.80
<i>Burbank</i>	9791 Nickel plated.....	.90
<i>Burnham</i>	9792 Old copper.....	.90
	Solid cap. 4×2 inches:	



No. 9795.

Push Buttons—(Continued).

Code Word.	List No.	List Price. Each.
<i>Bushel</i>	9795 Light bronze, solid cap.....	\$.85
<i>Bussey</i>	9796 Nickel plated, solid cap.....	.85
<i>Butler</i>	9797 Light bronze, screw cap.....	1.00
<i>Byers</i>	9798 Nickel plated, screw cap.....	1.00
	Solid cap. $5\frac{1}{4} \times 2\frac{1}{4}$ inches.	



No. 9800.

<i>Byhaha</i>	9800 Light bronze.....	.90
<i>Byron</i>	9801 Nickel plated.....	1.00
<i>Byzantine</i>	9802 Old copper.....	1.00
	Solid cap. 4x2 inches.	



No. 9803.

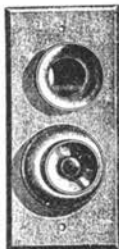
<i>Cabell</i>	9803 Light bronze.....	.90
<i>Caddo</i>	9804 Polished brass.....	.90
	Solid cap. 4x2 inches.	



No. 9903.

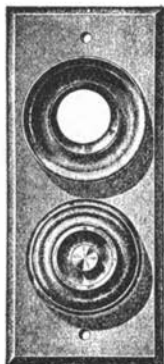
Push Buttons—(Continued).

Code Word,	List No.	List Price, Each.
<i>Cairo</i>	9805 Light bronze.....	\$.85
<i>Calamus</i>	9806 Nickel plated.....	.85
Solid cap. $5\frac{1}{4} \times 1\frac{1}{4}$ inches.		



No. 9807.

<i>Calamine</i>	9807 Light bronze.....	1.50
<i>Caldwell</i>	9808 Nickel plated.....	1.50
Solid cap. $6 \times 2\frac{3}{4}$ inches.		



No. 9809.

<i>Callous</i>	9809 Gold bronze.....	2.25
Solid cap. $5\frac{1}{4} \times 2\frac{1}{8}$ inches.		



No. 9810.

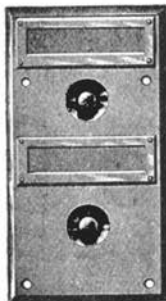
Push Buttons—(Continued).

Code Word.	List No	List Price. Each.
<i>Calias</i>	9810 Polished bronze, 2 x 1 inches.....	\$1.00
<i>Calistoga</i>	9811 " " 3 1/4 x 1 3/8 inches.....	1.10
	Midget back.	



No. 9812.

<i>Caledon</i>	9812 Gold bronze.....	2.00
	Solid cap. 5 x 2 1/2 inches.	



No. 9813.

<i>Caledonia</i>	9813 Polished bronze.....	4.00
	Midget back. 4 1/4 x 2 1/4 inches,	



No. 9815.

Push Buttons—(Continued).

Code Word.	List No.	List Price. Each.
<i>Calera</i>	9815 Light bronze.....	\$.65
	Solid cap. 4x2 inches.	



No. 9816.

<i>Calusa</i>	9816 Polished bronze.....	1.50
	Solid cap. 5½x2 inches.	



No. 9818.

<i>Calusa</i>	9818 Polished bronze.....	2.00
	Screw cap. 4¾x3½ inches.	



No. 9820

Push Buttons—(Continued).

Code Word.	List No.	List Price Each.
<i>Calceyas</i>	9820 Light bronze, flat.....	\$.60
<i>Calvert</i>	9821 " " convex for $1\frac{1}{2}$ inch bead.....	.60
	$3\frac{1}{2} \times 1\frac{1}{4}$ inches.	



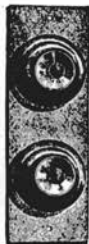
No. 9822

<i>Callao</i>	9822 Light bronze, convex.....	1.00
	$4\frac{1}{2} \times 2\frac{1}{4}$ inches. For 3-inch bead.	



No. 9824

<i>Callahan</i>	9824 Polished bronze, convex.....	1.60
	Screw cap. $4\frac{1}{2} \times 2\frac{1}{4}$ inches. For 3-inch bead.	



No. 9825.

Push Buttons—(Continued).

Code Word.	List No.		List Price Each.
<i>Cullerway</i>	9825	2 Pushes, $7\frac{1}{4} \times 2\frac{1}{4}$ inches.....	\$ 1.70
<i>Cullis</i>	9826	3 " $10\frac{3}{4} \times 2\frac{1}{4}$ "	2.40
<i>Cambridge</i>	9827	4 " $12\frac{1}{4} \times 2\frac{1}{4}$ "	3.30

Light bronze. Screw cap.



No. 9830.

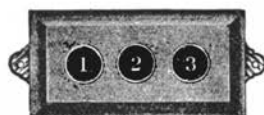
<i>Cambria</i>	9830	Light bronze.....	2.00
<i>Camden</i>	9831	Polished bronze, black ground.....	2.00
<i>Cameron</i>	9832	Nickel plated.....	2.40
<i>Camargo</i>	9833	Old copper.....	2.40

Solid cap. $6 \times 2\frac{1}{4}$ inches.

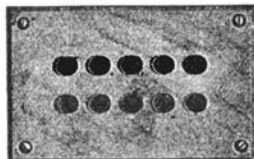
No. 9835.

<i>Camilla</i>	9835	Light bronze.....	2.00
<i>Camillus</i>	9836	Polished bronze, black ground.....	2.00
<i>Cammal</i>	9837	Nickel plated.....	2.40
<i>Cammin</i>	9838	Old copper.....	2.40

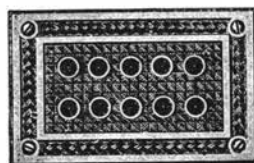
Solid cap. $3\frac{3}{4} \times 2\frac{3}{8}$ inches.



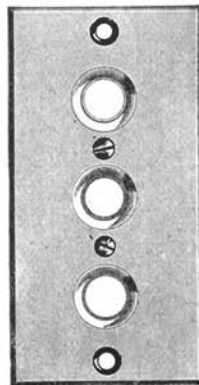
No. 9841.



No. 9854.



No. 9859.



No. 4238.

Compound Push Buttons.

Code-Word.	List No.	List Price.
		Each.
<i>Campbell</i>	9840	2 Button..... \$ 1.10
<i>Campus</i>	9841	3 "..... 1.65
<i>Canaan</i>	9842	4 "..... 2.20
<i>Cindor</i>	9843	5 "..... 2.75
<i>Candia</i>	9844	6 "..... 3.30
<i>Caney</i>	9845	8 "..... 4.40
<i>Canisteo</i>	9848	10 "..... 5.50
<i>Canton</i>	9847	12 "..... 6.60

Oak, mahogany, walnut and cherry.

<i>Cantrall</i>	9850	2 Button.....	2.25
<i>Capac</i>	9851	4 ".....	3.75
<i>Capron</i>	9852	6 ".....	5.50
<i>Carbon</i>	9853	8 ".....	7.25
<i>Carey</i>	9854	10 ".....	8.50

Bronze, nickel plated and brass.

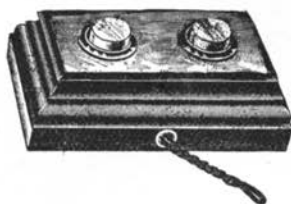
<i>Carlton</i>	9855	2 Button.....	3.00
<i>Caro</i>	9856	4 ".....	4.50
<i>Carrizo</i>	9857	6 ".....	6.25
<i>Carthage</i>	9858	8 ".....	8.00
<i>Carrillon</i>	9859	10 ".....	10.00
<i>Corman</i>	9860	12 ".....	12.00

Polished bronze and inlaid bronze.

White Pearl Buttons.

<i>Fatsia</i>	4237	2-Button.....	.37
<i>Fatten</i>	4238	3 ".....	.51
<i>Fattend</i>	4239	4 ".....	.66
<i>Fattingkns</i>	4240	5 ".....	.84
<i>Fattrela</i>	4241	6 ".....	1.00

nickel plated



No. 4143.

Push Buttons—(Continued.)**Square Compound Push.**

Code Word
Farmery
Farming
Farnovian

List No.	List Price. Each.
4143 2 buttons.....	\$0.50
4144 3 " .....	.60
4145 4 " .....	.70

Each additional button, 10 cents extra.



No. 4146.

Round Compound Push.

Fare

4146 2 buttons.....	.30
---------------------	-----

Each additional button, 10 cents extra.



No. 4203.

Paper Weight Compound Push.

A desk push fitted with our No. 2890, Push, white center marked with black letters.

The back is covered with felt to prevent the desk becoming scratched.

Faroese
Farreation
Farrier
Faster

4147 2 button	2.50
4149 3 "	3.00
4151 4 "	3.50
4203 6 "	6.00



No. 4142.

Loaded Desk Push.

Farmery

414230
------------	-----



No. 9871.

Centers for Push Buttons.

Code Word.	List No	List Price. Each.
<i>Corni</i>	9871 Porcelain.....	\$.05



No. 9872.

<i>Carrabelle</i>	9872 Hard rubber.....	.10
<i>Carson</i>	9873 Composition.....	.05



No. 9875.

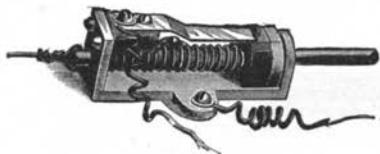
Springs for Push Buttons.

<i>Cardinal</i>	987502
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No. 9876.

<i>Carlisle</i>	987604
-----------------	------------	-----



Mechanical Bell-Pull Attachment.

Designed for connecting a mechanical door-pull to ring an electrical bell. It can be attached without displacing the bell-pull already in use, and may be arranged to operate both the mechanical and electrical bells.

No. 11902.

Code Word.
Goding
Gogebic

List No.

11902	Single, for one Electric Bell.....	.36
11903	Double, for two Electric Bells .....	.57

List Price.
Each.



No. 4400.

Feide

Three-Point Pull.

A well-made and polished wood push, fitted with springs which will cause no trouble from setting.

4400	3-point Push20
------	--------------------	-----



No. 4401.

Feigh

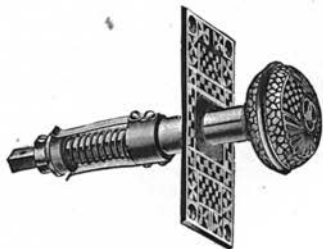
Wood Wall Rosettes.

Size 1½ inches. Screw Cap.

4401	Wood Rosette36
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Door Bell Pulls.

Adjustable Bell Pull Attachment.



No. 4071.

Code Word
Fanatic

List No.

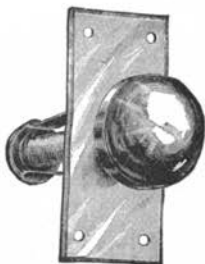
4071

Each \$0.30

List Price

\$0.30

This is a simple and easily applied adjustable attachment, and can be fitted to any door-pull. It consists of a spring, a brass and two rubber bushings. A screw in the brass bushing, shown in the cut, holds the attachment in place. The springs in their normal position rest on the small rubber bushing, but in operation the brass bushing is drawn between them and the circuit closed. One of its great advantages is that the hole in the casing needs to be enlarged but a trifle over that made for the regular pull.



No. 9878.

Castella

9878 Polished Bronze..... 1.75

1.75



No. 9879.

Catlin

9879 Light Bronze..... 1.50

1.50

For additional finishes see page 32.

Prices quoted on application.

BATTERIES AND BATTERY SUPPLIES.

Disque LeClanche Battery.



No. 10000.

Code Word.	List No.	List Price, Each.
<i>Certo</i>	10000 Cell, complete.....	\$ 1.00
<i>Certo</i>	10001 " " sealed.....	1.20
<i>Certo</i>	10002 Porous Cup.....	.75
<i>Ceylon</i>	10003 Jar.....	.15
<i>Ceylon</i>	10004 Zinc, amalgamated.....	.10
<i>Chase</i>	10005 Sal Ammoniac, package.....	.08

DIRECTIONS.

Put six ounces of sal-ammoniac into the glass jar, fill one-third full of water, and stir. Put in porous cell and fill with water to neck of jar, pouring a little water into the hole in the porous cup. Put in zinc and connect up battery.

The inside of the rim of the jar should be greased to keep the salts formed from overrunning.

The battery should be kept in a dry place; and requires very little attention, except to put in water occasionally to supply the loss by evaporation. In case of failure to work, the solution should be thrown out and fresh sal-ammoniac and water added. If this does no good, soak out the porous cell in warm water. If it still fails, new porous cells must be used.



No. 10000.

Self-Sealing, Quick-Acting Disque LeClanche Battery.

<i>Chamberlain</i>	10006 Cell, complete.....	1.30
<i>Chadron</i>	10007 Porous Cup.....	.80
<i>Chamote</i>	10008 Jar.....	.15
<i>Champaign</i>	10009 Paraffined Wooden Ring.....	.12
<i>Champion</i>	10010 Zinc with Rubber Ring.....	.12
<i>Chana</i>	10011 Sal Ammoniac, package.....	.08

1½ volts E. M. F. within one minute after being connected up.



No. 4084.

The Economy Battery.

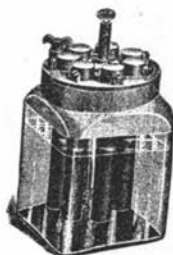
Code Word.	List No.	List Price. Each.
<i>Panega</i>	4084 Battery, complete.....	\$0.60
<i>Fanfara</i>	4085 Carbon cylinder.....	.35
<i>Depositt</i>	10004 Zinc.....	.07
<i>Fanfaron</i>	4086 Jar.....	.10
<i>Fanfaronad</i>	4087 Sal Ammoniac.....	.08



No. 10020.

Weco Carbon Battery.

<i>Chaska</i>	10020 Cell, complete.....	.90
<i>Chatfield</i>	10021 Carbon Element, complete.....	.65
<i>Chatham</i>	10022 Jar.....	.15
<i>Chavmont</i>	10023 Zinc.....	.10
<i>Chebanse</i>	10024 Sal Ammoniac, package.....	.08



No. 10025.

The Diamond Carbon Battery.

<i>Cheboygan</i>	10025 Battery, complete.....	1.25
<i>Chehaw</i>	10026 Metal Top only with carbons complete.....	.90
<i>Cheloea</i>	10027 Carbon Sticks only.....	.06
<i>Cheltenham</i>	10028 Jar only.....	.20
<i>Chemung</i>	10029 Metal Top only.....	.50
<i>Cheney</i>	10030 Zincs, without rubbers.....	.10
<i>Chenoo</i>	10031 Rubber Rings, large.....	.02
<i>Chenoso</i>	10032 " " small.....	.01
<i>Chersaw</i>	10033 Sal Ammoniac, package.....	.15



No. 10035.



No. 10050.



No. 10040.

The Gibraltar Battery.

Canvas Bag Battery.

Code Word.	List No.	No. 1.	List Price. Each.
		Carbon with Lead Head.	
<i>Cherokee</i>	10035	Cell, complete.....	\$.85
<i>Chevre</i>	10036	Bag element.....	.50
<i>Chester</i>	10037	Jar, disque.....	.15
<i>Chesteron</i>	10038	LeClanche zinc with rubbers.....	.12
<i>Chetopa</i>	10039	Sal-ammoniac, package.....	.10

No. 2.

Carbon with Plain Head.

<i>Chippican</i>	10046	Cell, complete.....	.80
<i>Chiplun</i>	10047	Bag element.....	.40
<i>Chipola</i>	10048	Jar disque.....	.15
<i>Chippenharn</i>	10049	Cover, paraffined pressed board.....	.05
<i>Chiquilala</i>	10057	LeClanche zinc with rubbers.....	.12
<i>Chiquitos</i>	10058	Sal-ammoniac, package.....	.10

No. 3.

With Circular Zinc and Wood Cover.

Carbon with Lead Head.

<i>Chippewa</i>	10050	Cell, complete.....	1.10
<i>Chittenango</i>	10051	Bag element.....	.50
<i>Chryslerman</i>	10052	Jar, disque.....	.15
<i>Chualar</i>	10053	Wood cover.....	.10
<i>Christiana</i>	10054	Circular zinc.....	.22
<i>Christoph</i>	10055	Rubber.....	.05
<i>Cinnarron</i>	10056	Sal-ammoniac, package.....	.10

No. 4.

Carbon with Plain Head.

<i>Cheyenne</i>	10040	Cell, complete.....	.80
<i>Chico</i>	10041	Bag element.....	.40
<i>Chili</i>	10042	Jar, round, new pattern.....	.15
<i>Chillicothe</i>	10043	Cover, paraffine pressed board.....	.05
<i>Chilton</i>	10044	LeClanche zinc, with rubbers.....	.12
<i>Chipman</i>	10045	Sal-ammoniac, package.....	.10

Samson Battery.



No. 10060

No. 1.

Code Word.	List No.	List Price. Each.
<i>Cinnabar</i>	10060 Complete Cell.....	\$1.05
<i>Cisco</i>	10061 Carbon Vase.....	.67½
<i>Claira</i>	10062 Cylindrical Zinc.....	.18
<i>Clanton</i>	10063 Glass Jar.....	.16½
<i>Clare</i>	10064 Rubber Cover.....	.09
<i>Claremont</i>	10065 Sal-Ammoniac. package.....	.07½
<i>Clarence</i>	10066 Rubber Ring to suspend Carbon.....	.06½
<i>Clarendon</i>	10067 Rubber Feeders.....	.07½
<i>Clarinda</i>	10068 Rubber Plugs, New Style, per set of three	.07½



No. 10070.

No. 2.

<i>Clarion</i>	10070 Complete Cell.....	1.20
<i>Clarkdale</i>	10071 Carbon Vase.....	.82½
<i>Clarkston</i>	10072 Cylindrical Zinc.....	.19½
<i>Claverack</i>	10073 Glass Jar....	.18
<i>Claymont</i>	10074 Rubber Cover.....	.10½
<i>Claypool</i>	10075 Sal-Ammoniac. package.....	.09
<i>Clayton</i>	10076 Rubber Ring to suspend Carbon.....	.07½
<i>Clearfield</i>	10077 Rubber Feeders.....	.09
<i>Cleburne</i>	10078 Rubber Plugs, New Style, per set of three	.09

No. 3

Size of jar, 4½ x 7 inches.

Extreme height, 8½ inches.



No. 4088.

The same elements are used in this cell as in the Semi-Dry Battery. A glass jar is used, which is closely covered to prevent evaporation and the entrance of dust and dirt.

The cell is designed for heavy stationary service.

<i>Fong</i>	4088 Complete cell.....	1.75
<i>Fanged</i>	4089 Elements, complete, for recharging.....	1.60



No. 10080.

Carbon Cylinder Battery.

Code Word.	List No.	List Price. Each.
<i>Chickerton</i>	10080 Cell, complete	\$ 1.12
<i>Clermont</i>	10081 Carbon Cylinders .....	.75
<i>Cleora</i>	10082 Porcelain Insulators .....	.94
<i>Cleceston</i>	10083 Cylinder Zincs .....	.10
<i>Clifton</i>	10084 Glass Jars .....	.25
<i>Clifton</i>	10085 Sal Ammoniac, package .....	.10

Gordon Battery.

For Closed and Open Circuit Work.

The Gordon Battery is peculiarly adapted and will work equally as well on closed or open circuits. It is free from all local action, and will deliver its full rated output throughout its entire life. It is not affected by extremes of temperature and will remain operative at a temperature of from twenty to thirty degrees below zero.



No. 4090.

No. 1. 250 Ampere Hours.

Size, 6 in. x 8 in.

<i>Fanger</i>	4090 Cell, complete, in glass jar	5.00
<i>Fangle</i>	4091 " " in enameled steel jar	6.50
<i>Fangle</i>	4092 Copper element	1.00
<i>Fanton</i>	4093 Zinc " .....	.80
<i>Fank</i>	4094 Electro Sodium and Oil .....	.60
<i>Fannell</i>	4095 Complete charge	2.40

No. 2. 100 Ampere Hours.

Size, 4½ in. x 6 in.

<i>Fanner</i>	4096 Cell, complete, in glass jar	2.70
<i>Fanninghill</i>	4097 " " in enameled steel jar	3.20
<i>Fanon</i>	4098 Copper element .....	.50
<i>Fantail</i>	4099 Zinc " .....	.40
<i>Fantail</i>	4100 Electro Sodium and Oil .....	.30
<i>Fantau</i>	4101 Complete charge	1.20



No. 10012.

Quad Battery.

Code Word.	List No.	List Price Each.
<i>Chancery</i>	10012 Cell, complete.....	\$0.90
<i>Chanute</i>	10013 Carbon Elements with Top, complete.....	.65
<i>Chandler</i>	10014 Zinc.....	.10
<i>Chapel</i>	10015 Jar.....	.15
<i>Chopin</i>	10016 Sal Ammoniac, package.....	.08



No. 10095.

The "Gonda" Prism Battery.

<i>Clyde</i>	10095 Complete Cell.....	\$1.20
<i>Clymer</i>	10096 "Gonda" Prisms, per pair, with Rubber Bands.....	.75
<i>Coathoma</i>	10097 Carbon, Mounted, complete .....	.25
<i>Coalburg</i>	10098 Glass Jar.....	.18
<i>Coaldale</i>	10099 Cover.....	.09
<i>Contmont</i>	10100 Zinc .....	.08
<i>Coalton</i>	10101 Sal-Ammoniac, package.....	.08



No. 10105.

Law Battery.

<i>Coats</i>	10105 Complete Cell (with sal-ammoniac).....	1.50
<i>Cobden</i>	10106 Double Cylinder.....	.80
<i>Cobham</i>	10107 Jar.....	.30
<i>Coblestick</i>	10108 Cover, with Rubber Ring.....	.20
<i>Cochran</i>	10109 Carbon Binding Post.....	.15
<i>Coezman</i>	10110 Zinc, with Fender.....	.08
<i>Cohasset</i>	10111 Zinc Binding Post.....	.06
<i>Colborn</i>	10112 Sal-Ammoniac, package.....	.08



No. 4102.

Nungesser Battery.

No. 1. 300 Ampere Hour.

Size, 4½ in. x 4½ in. x 7½ in.

Code Word.	List No.	List Price. Each.
<i>Fantoscope</i>	4102 Cell, complete	1.50
<i>Fantastic</i>	4103 Carbon Cup, complete.....	.75
<i>Fantasy</i>	4104 Zinc.....	.25
<i>Fantoul</i>	4105 Chemicals and Oil .....	.30



No. 4106.

No. 1. Portable Cell.

Size, 4½ in. x 4½ in. x 7½ in.

<i>Faz</i>	4106 Cell, complete	3.00
<i>Favud</i>	4107 Carbon Cup, complete.....	.75
<i>Favudite</i>	4108 Zinc .....	.25
<i>Paradise</i>	4109 Chemicals and Oils.....	.40



No. 4110.

No. 2. 600 Ampere Hour.

Size, 6 in. x 8 in.

<i>Paradise</i>	4110 Cell, complete	2.50
<i>Paradise</i>	4113 Carbon Cup, complete.....	1.10
<i>Paradise</i>	4114 Zinc .....	.45
<i>Paradise</i>	4115 Chemicals and Oil.....	.50

No. 6. 600 Ampere Hour.

Size, 6 in. x 8 in.

Special Motor Battery.

<i>Favre</i>	4116 Cell, complete	3.00
<i>Favre</i>	4117 Special Carbon Cup, complete	1.60
<i>Paradise</i>	4118 Zinc.....	.45
<i>Favre</i>	4119 Chemicals and Oil.....	.50

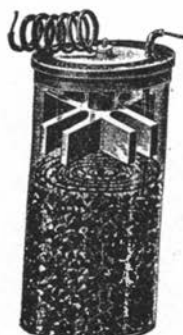
Gravity Battery.



No. 10255.



No. 10240.



No. 10265.

Code Word.	List No.		List Price, Each.
		5 x 7	
<i>Deerfield</i>	10250	Cell, complete.....	\$.65
<i>Defiance</i>	10251	Jar, glass, 5x7.....	.25
<i>Delanco</i>	10252	Zinc.....	.25
<i>Deland</i>	10253	Copper.....	.15
		6 x 8	
<i>Delano</i>	10255	Cell, complete.....	.90
<i>Delaware</i>	10256	Jar, glass, 6x8.....	.35
<i>Delavan</i>	10257	Zinc.....	.40
<i>Delhi</i>	10258	Copper.....	.15
		7 x 8	
<i>Delmar</i>	10260	Cell, complete.....	1.10
<i>Delphos</i>	10261	Jar, glass, 7x8.....	.40
<i>Delta</i>	10262	Zinc.....	.40
<i>Deming</i>	10263	Tripod hanger.....	.15
<i>Demopolis</i>	10264	Copper.....	.15

Daniell Battery.

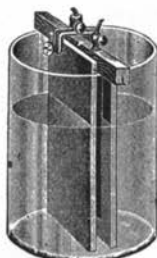
<i>Dahlgren</i>	10240	Cell, complete.....	1.80
<i>Daily</i>	10241	Zinc.....	.35
<i>Dakota</i>	10242	Copper.....	.35
<i>Dalton</i>	10243	Porous cup.....	.25
<i>Danbury</i>	10244	Pocket.....	.25
<i>Dane</i>	10245	Clamp.....	.25
<i>Danforth</i>	10246	Jar, glass, 6x8.....	.35

DIRECTIONS.

Fill the jar and porous cell with water, and the pocket with blue vitriol. The directions for Gravity Battery will apply to the maintenance of the Daniell.

National Lockwood Battery.

<i>Dempsey</i>	10265	Cell, complete.....	1.50
<i>Denmark</i>	10266	Jar.....	.60
<i>Dennis</i>	10267	Zinc.....	.25
<i>Dennison</i>	10268	Copper.....	.20
<i>Denny</i>	10269	Porcelain cover.....	.25
<i>Denton</i>	10270	Rubber band.....	.20



No. 10140.

Smee Battery.

Code Word.	List No.		List Price. Each.
No. 1, $3\frac{1}{2} \times 4\frac{1}{2}$			
<i>Conception</i>	10140	Cell, complete.....	\$2.40
<i>Conchda</i>	10141	Jar.....	.20
<i>Concho</i>	10142	Platinized Silver Plate and Connection....	1.30
<i>Conemaugh</i>	10143	Zincs (rolled) per pair.....	.40
<i>Conetoga</i>	10144	Zinc Clamp.....	.50
No. 2, $4\frac{1}{2} \times 4\frac{1}{2}$			
<i>Conesus</i>	10145	Cell, complete.....	2.70
<i>Conesago</i>	10146	Jar.....	.20
<i>Consaes</i>	10147	Platinized Silver Plate and Connection....	1.50
<i>Congers</i>	10148	Zincs (rolled) per pair.....	.50
<i>Conneaut</i>	10149	Zinc Clamp.....	.50
No. 3, 5×7			
<i>Connell</i>	10150	Cell, complete.....	3.45
<i>Connors</i>	10151	Jar.....	.25
<i>Conoy</i>	10152	Platinized Silver Plate and Connection....	2.00
<i>Consecon</i>	10153	Zincs (rolled) per pair.....	.70
<i>Constable</i>	10154	Zinc Clamp.....	.50
No. 4, 6×8			
<i>Constantia</i>	10155	Cell, complete.....	5.05
<i>Constantin</i>	10156	Jar.....	.35
<i>Contee</i>	10157	Platinized Silver Plate and Connection....	3.00
<i>Contentnea</i>	10158	Zincs (rolled) per pair.....	1.20
<i>Convenie</i>	10159	Zinc Clamp.....	.50

DIRECTIONS.

The liquid used to charge this battery is diluted sulphuric acid—about one part acid to ten parts water.



No. 10160.

Grove Battery. $4\frac{1}{2} \times 4\frac{1}{2}$.

<i>Conversano</i>	10160	Cell, complete	2.24
<i>Conco</i>	10161	Jar.....	.20
<i>Conway</i>	10162	Porous Cup... ..	.24
<i>Conger's</i>	10163	Platinum	1.40
<i>Cookshire</i>	10164	Zinc.....	.40

DIRECTIONS.

Fill the porous cup with strong nitric acid and the glass jar with dilute sulphuric acid, about twenty parts of water to one of acid. When not in use the plates should be removed from the jar and the nitric acid emptied out.

Grenet Batteries.

Imported.



No. 10165.



No. 10185.



No. 10221.

Code Word.	List No.		List Price. Each.
6 inch.			
<i>Cookstown</i>	10165	Cell, complete.....	\$2.00
<i>Coomer</i>	10166	Jar.....	.90
<i>Coopertown</i>	10167	Carbons.....	.30
<i>Copake</i>	10168	Zinc.....	.20
8 inch.			
<i>Copemish</i>	10170	Cell, complete.....	3.75
<i>Copeley</i>	10171	Jar.....	1.60
<i>Corea</i>	10172	Carbons.....	.50
<i>Cordale</i>	10173	Zinc.....	.25
10 inch.			
<i>Cordella</i>	10175	Cell, complete.....	4.25
<i>Cordola</i>	10176	Jar.....	1.80
<i>Corinna</i>	10177	Carbons.....	.60
<i>Corinth</i>	10178	Zinc.....	.30
12 inch.			
<i>Corleane</i>	10180	Cell, complete.....	5.75
<i>Corley</i>	10181	Jar.....	2.50
<i>Corneo</i>	10182	Carbons.....	.75
<i>Coronata</i>	10183	Zinc.....	.35

Novelty A Grenet Battery.

10 inch.

<i>Costopa</i>	10185	Cell, complete.....	1.80
<i>Craig</i>	10186	Jar.....	.30
<i>Craighead</i>	10187	Carbons.....	.20
<i>Cranthamton</i>	10188	Zincs.....	.30

Plunge Battery.

<i>Culbertson</i>	10220	1 Cell for medical machine or bell.....	\$1.00
<i>Cullom</i>	10221	2 " " Ruhmkorff coil or 1 c. p. lamp...	2.00
<i>Culver</i>	10222	3 " " Motor or a 2 c. p. lamp.....	2.75
<i>Cumberland</i>	10223	4 " " a 3 c. p. lamp.....	3.50

A desirable battery for running incandescent lamps, electric motors, Ruhmkorff coils, Giessler tubes and rotators for electrolytical experiments.

Bunsen Battery.



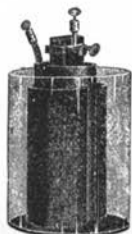
No. 10190.

One Quart.

Code Word.	List No.		List Price. Each.
<i>Cranford</i>	10190	Cell, complete.....	\$1.70
<i>Cranston</i>	10146	Jar, 4½x4½.....	.30
<i>Crawden</i>	10192	Porous Cup.....	.20
<i>Crawford</i>	10193	Carbon.....	.15
<i>Crestmore</i>	10194	Clamp for Carbon.....	.30
<i>Cresco</i>	10195	Zinc.....	.60
<i>Cresson</i>	10196	Connector for Zinc.....	.15

One Gallon.

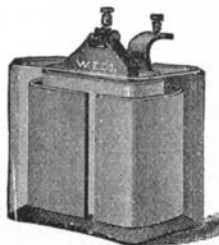
<i>Crestline</i>	10200	Cell, complete.....	3.10
<i>Creston</i>	10201	Jar, 6x8.....	.35
<i>Creta</i>	10202	Porous Cup.....	.30
<i>Crisfield</i>	10203	Carbon.....	.30
<i>Crittenden</i>	10204	Clamp for Carbon.....	.50
<i>Crockett</i>	10205	Zinc and Connector.....	1.65



No. 10200.

Two Gallons.

<i>Cromwell</i>	10210	Cell; complete.....	6.35
<i>Crookston</i>	10211	Jar, 6x8x8.....	1.40
<i>Cronwell</i>	10212	Porous cup.....	1.00
<i>Croyden</i>	10213	Carbons, per pair.....	.70
<i>Crutger</i>	10214	Clamp for carbon.....	1.20
<i>Cuba</i>	10215	Zinc.....	1.80
<i>Cuaron</i>	10216	Connector for zinc.....	.25



No. 10210.

DIRECTIONS.

Fill the glass jar with water; the porous cell with electropoison fluid. The height of the liquids in the jar and the porous cell should be about the same.

EXTRA SIZE FOR NICKEL PLATING.—In the porous cell use a mixture of equal parts by measure of sulphuric acid and water, with two ounces of nitric acid. In the outer jar use a mixture of twelve parts water to one part sulphuric acid. When the liquid in the outer jar becomes milky, use fresh solution. Add a little nitric acid occasionally to porous cell. Keep zinc well amalgamated.

ELECTROPOISON FLUID.—To eight pints of water add two pints of sulphuric acid. While the mixture is still hot, stir in one pound bichromate of potash, pulverized. It is ready for use when cold. Use an earthen vessel for mixing.

Fuller's Mercury Bichromate Battery.



No. 10120.

No. 1. 5x7.

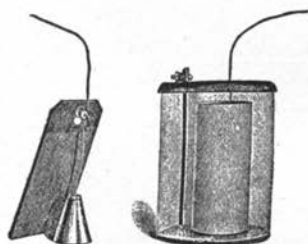
Code Word.	List No.	List Price Each.
<i>Colehour</i>	10120 Cell, complete	\$0.90
<i>Coleman</i>	10121 Jar, 5x7 .....	.25
<i>Coffaz</i>	10122 Carbon .....	.24
<i>Collett</i>	10123 Porous Cup .....	.25
<i>Collins</i>	10124 Zinc .....	.15

No. 2. 6x8.

<i>Coloma</i>	10125 Cell, complete	1.10
<i>Colonia</i>	10126 Jar, 6x8 .....	.35
<i>Colton</i>	10127 Carbon .....	.25
<i>Columbia</i>	10128 Porous Cup .....	.30
<i>Columbrella</i>	10129 Zinc .....	.20

DIRECTIONS

Make a paste by mixing up pulverized bichromate of potash with strong sulphuric acid in about equal parts by weight. Put about ten ounces of this paste into the outside jar, pour over it two or three ounces of sulphuric acid, and fill up with water. Into the porous cell pour a teaspoonful of mercury, put the zinc in place and fill up with water. The zinc should be lifted out occasionally and the sulphate washed off. Keep a supply of mercury in the porous cell, so as to have the zinc always well amalgamated.



Nos. 10133 and 10135.

No. 10130.

Standard Fuller Battery.

<i>Coteille</i>	10130 Cell, complete	1.30
<i>Comanche</i>	10126 Glass Jar, 6x8 .....	.35
<i>Comilla</i>	10132 Cover for Jar .....	.15
<i>Comines</i>	10133 Carbon .....	.30
<i>Como</i>	10134 Porous Cup .....	.30
<i>Compton</i>	10135 Zinc .....	.20

The Badt Hermetic Cell.



Jar without Cover.



Cover and Electrodes of Cell No. 1.



Cover and Electrodes of Cell No. 2.

The peculiar feature embodied in this battery is an effective hermetic seal, which prevents the evaporation of the liquid and also prevents the rising of salts.

The glass jar is double rimmed forming a trough which is filled with oil. The cover is provided with two rims or flanges. The inner flange is submerged in the oil, the outer flange surrounds the outer rim of the jar and prevents dust from entering the oil trough.

The openings in the cover through which the metal terminals of both the zinc and carbon pass are sealed by means of rubber washers placed on both sides of the cover and held firmly in place by metal washers.

The Badt battery is made in two styles, with and without depolarizing prism.

No. 1, with Chemical Depolarizing Prism.

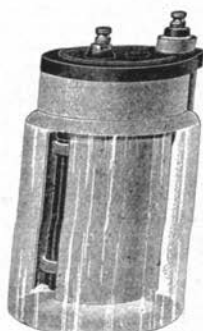
Code Word.	List No.	List Price, Each.
<i>Feyn</i>	4696 Cell No. 1, complete	\$1.25
<i>Feynting</i>	4697 Jar without cover .....	.30
<i>Feyre</i>	4698 Cover of jar only .....	.12
<i>Feyt</i>	4699 Jar complete with cover .....	.42
<i>Fex</i>	4700 1 charge of "Hermetic" (chemically pure) Sal Ammoniac .....	.10
<i>Fexle</i>	4701 1 "Hermetic" zinc complete with zinc washers, two rubber washers, hexagonal nut, and winged binding nut .....	.07
<i>Fecant</i>	4702 1 bottle containing 3 drams of special oil .....	.03

No. 2, without Depolarizing Prism.

<i>Fial</i>	4703 Cell No. 2, complete	1.00
<i>Fiance</i>	4704 Carbon for Cell No. 2 complete with zinc washers, two rubber washers, hexagonal nut, and winged binding nut .....	.42
<i>Fiants</i>	4705 Carbon for Cell No. 1 with zinc washers, two rubber washers, hexagonal nut, and winged binding nut (but without prism and rubber bands) .....	.36
<i>Fiar</i>	4706 Prism and rubber bands for Cell No. 1 .....	.31
<i>Finschino</i>	4707 Complete carbon and Prism, etc., for Cell No. 1 .....	.67

Directions.

1. Clean the jar and place in it the contents of the paper bag, taking care not to spill any salt into the oil trough.
2. Pour pure water (distilled water is the best) into the cell to the top of the word "Badt" (blown into glass) and stir until dissolved.
3. Pour the full contents of the small bottle (3 drams of special oil) into the oil trough, take one drop on tip of finger and rub inside of rim and cover.
4. Fasten carbon and zinc to the cover, so that one rubber washer is below and one above the cover on each binding post, tighten nuts; the rubber washers will close the holes in cover air-tight.
5. (Operation No. 5 is omitted for Cell No. 2.) Attach prism to the carbon plate by means of the rubber bands, place one near the top and the other near the bottom. The lower end of prism should be even with that of the carbon.
6. Insert the cover with electrodes into the jar. This closes the cell air-tight by dint of the oil-seal, and thus prevents evaporation of solution; leakage of current, and creeping of salt.
7. When the cell is set up the solution should be three-quarters inch above top of the word "Badt" (blown into the glass), or about three-quarter inch below neck of jar.
8. See that the connections are clean and are screwed up tight, and keep the cell in a place of fairly uniform temperature (cellar) if possible.



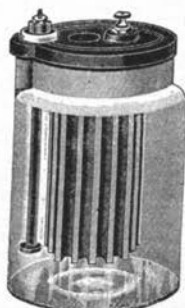
No. 4554.

The National Carbon Batteries.

The "No. 2" Cell.

The Cell consists of a Carbon Porous Cup filled with a Depolarizer, a circular Zinc, and Sal Ammoniac Solution. The elements will fit any LeClanche jar with pour-out.

Code Word.	List No.	List Price. Each.
<i>Ferily</i>	4554 No. 2 Cell, complete.....	\$1.10
	PARTS.	
<i>Ferly</i>	4555 Carbon Cup.....	.60
<i>Ferm</i>	4556 Zinc.....	.25
<i>Fermery</i>	4557 Sal Ammoniac.....	.10
<i>Fermil</i>	4558 Glass Jar.....	.15
<i>Fermata</i>	4559 Large Rubber Rings, for Carbon (2).....	.10
<i>Fermation</i>	4560 Small Rubber Rings, for Zinc (1).....	.05



No. 4561.

The No. 5 Cell.

This Cell is the same as the No. 2 Cell, excepting the Zinc, which in this cell is a small pencil zinc. The Elements will fit any LeClanche Jar with pour-out.

<i>Ferme</i>	4561 No. 5 Cell, complete.....	.90
	PARTS.	
<i>Ferment</i>	4562 Carbon Cup.....	.60
<i>Fermery</i>	4563 Zinc.....	.10
<i>Fermillet</i>	4564 Sal Ammoniac.....	.10
<i>Fermison</i>	4565 Glass Jar.....	.15
<i>Fermior</i>	4566 Large Rubber Rings for Carbon (2).....	.10
<i>Fern</i>	4567 Small Rubber Rings for Zinc (1).....	.03

The National Fuller Cell.



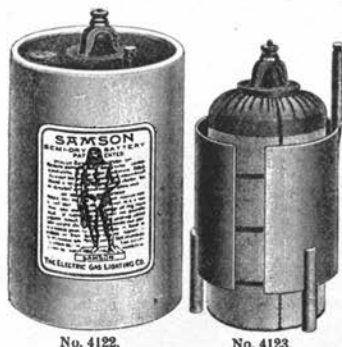
This style cell differs radically from the usual type of Fuller cells. It consists of a Carbon pot of large surface, a Clay Porous Cup, a special Zinc, and a prepared wood Cover. All are contained in a regular 6 x 8 inch glass jar.

Code Word.	List No.	List Price Each.
<i>Fernanbag</i>	4568	Cell complete, less chemicals..... 1.90
PARTS.		
<i>Fernery</i>	4569	Carbon Cylinder..... .30
<i>Fernicula</i>	4570	Porous Cup ..... .30
<i>Fernitiled</i>	4571	Zinc..... .35
<i>Ferny</i>	4572	Glass Jar, 6 x 8..... .35
<i>Fernycere</i>	4573	Covers ..... .10

Dry Batteries.

The Samson Semi-Dry Battery.

Size of jar, 4½ x 7½ inches.
Extreme height, 9 inches.



This cell fulfills the many requirements for a portable, nonspillable, open circuit battery.

It is contained in a jar, possessing great strength, which is not easily broken.

The negative element is a hollow fluted carbon cylinder, around which is fastened a strong linen bag containing a large amount of specially prepared depolarizing compound. A heavy reinforced cylindrical zinc forms the other element of the battery.

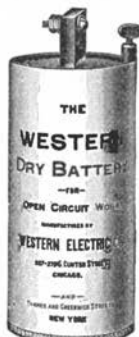
These elements are sealed in a porcelain jar with a preparation of black wax, thus obviating the possibility of spilling.

The dry salts are placed in the jar and it is only necessary to fill the jar with water to make it ready for immediate use.

<i>Fard</i>	4122	Samson Semi-Dry Battery.....	2.00
<i>Fordage</i>	4123	Elements and Dry Salts for recharging....	1.65



No. 10115.



No. 10116.



No. 10118.



No. 10017.

Dry Batteries.

Phenix.

DIMENSIONS.

Height, 8 inches; Diameter, $3\frac{1}{4}$ inches; Weight, $3\frac{1}{4}$ pounds.

Code Word.	List No.	List Price Each.
Colby	10115	\$1.10

Western.

DIMENSIONS.

Height, 6 $\frac{1}{2}$ inches; Diameter, $2\frac{1}{4}$ inches; Weight, $2\frac{1}{2}$ pounds.

Coldwater	10116	.80
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Pony and Mesco.

DIMENSIONS OF PONY.

Oval.

Height, 4 inches; Length, 3 inches; Width, 2 inches; Weight, $1\frac{1}{2}$ pounds.

DIMENSIONS OF MESCO.

Height, 6 $\frac{1}{2}$ inches; Diameter, $2\frac{1}{4}$ inches; Weight, $1\frac{1}{4}$ pounds.

Coldbrook	10117	.80
Colegrove	10118	.70



No. 4716.

No. 4717.



No. 4718.



No. 4722.



No. 4719.



No. 4720.



No. 4210.

The "O. K." Dry Battery.

Type L. S.

Capacity, discharged through 6 ohms resistance, 38 watt hours. Voltage, 1.55. Amperage, $7\frac{1}{2}$ to 12.

Code Word	List No.	List Price.
<i>Fibroid</i>	4716 Cell, each.	\$0.75

Type S.

Capacity, discharged through 7 ohms resistance, 36.06 watt hours. Amperage, 6 to 8.

<i>Fibroin</i>	4717 Cell, each.65
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Type S. S.

Capacity, discharged through 12 ohms resistance, 5 watt hours. Voltage, 1.50. Amperage, 2 $\frac{1}{2}$ to 4.

<i>Fibroma</i>	4718 Cell, each.40
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Type B.

Capacity, discharged through 6 ohms resistance, 40.35 watt hours. Voltage, 1.55. Amperage, $7\frac{1}{2}$ to 10.

<i>Fibrosis</i>	4719 Cell, each.75
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Type C.

Capacity, discharged through 6 ohms resistance, 26.17 watt hours. Voltage, 1.50. Amperage, 5 to $7\frac{1}{2}$.

<i>Fibster</i>	4720 Cell, each.50
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Type D.

Capacity, discharged through 12 ohms resistance, 5.93 watt hours. Voltage, 1.50. Amperage, 2 $\frac{1}{2}$ to 4.

<i>Fibulare</i>	4721 Cell, each.40
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Type E.

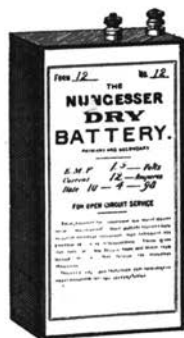
Capacity, discharged through 10 ohms resistance, 9.47 watt hours. Voltage, 1.50. Amperage, 3 to 5.

<i>Picche</i>	4722 Cell, each.45
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The Improved Victor Dry Battery.

In the Victor Battery the polarization is reduced to a minimum. It is free from all local action, has great recuperative power, is compact, and is not affected by extremes of temperature.

<i>Fastland</i>	4210 Cell.75
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No. 4124.



No. 4125.



No. 4128.



No. 4148.



No. 4129.

The Nungesser Dry Battery.

Form 12.

Size, 2 1/2 in. x 3 1/2 in. x 7 1/2 in.

E. M. F., 1.50 volts. Amperage, 12 to 14.

Code Word. List No.

Fardelbound 4124 Cell.....

List Price.
Each.
\$1.00

The Nungesser Chloride of Silver Battery.

The Chloride of Silver Batteries are put up in hard rubber cells, perfectly sealed. They are especially adapted for electrical measuring and testing and all other service where a constant E. M. F. and uniform current is required.

No. 0.

Size, 1 1/2 in. x 3 in.

Farder 4125 Cell, containing 200 grains of Chloride of Silver, 1.50

No. 1.

Size, 1 1/2 in. x 3 in.

Farding 4126 Cell, containing 400 grains of Chloride of Silver, 2.00

No. 2.

Size, 2 in. x 4 in.

Fardingale 4127 Cell, containing 600 grains of Chloride of Silver, 2.50

No. 3.

Size 2 in. x 4 in.

Fardingbag 4128 Cell, containing 800 grains of Chloride of Silver, 3.00

The 1900 Dry Battery.

Size, 2 1/2 in. x 6 in.

E. M. F. 1.50 volts. Amperage, 12 to 14.

Fardingdon 4129 Cell.....

.40

Miniature Pocket Battery.

For Testing Instruments, Medical Instruments, etc.

Size, 2 1/2 in. x 1 1/2 in. x 4 1/2 in.

E. M. F., 1.5 volts.

Current, 6 to 8 amperes.

Farrogo 4148 Cell.....

.50

The Edison La Lande Battery.

Type "J" Cell.

Annunciator Model.

Size over all, 3½ in. x 7 in.

Capacity, 50 ampere hours.



No. 10400.

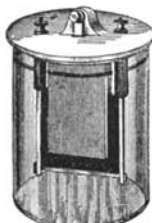
Code Word.	List No.	List Price.
<i>Danvers</i>	10400	Cell, complete, porcelain jar..... \$1.30
		Renewal parts.
<i>Dardanelle</i>	10401	Copper oxide plate (capacity 1 charge)..... .14
<i>Dartmouth</i>	10402	Zinc plate (capacity 1 charge)..... .10
<i>Darien</i>	10403	Can containing one charge caustic potash.... .12
<i>Darlington</i>	10404	Bottle heavy paraffine oil (sufficient for 1 ch.) .05

Type "Q" Cell.

Small Fan Motor and Gas Engine Model.

Size over all, 5½ in. x 8 in.

Capacity, 150 ampere hours.



No. 10405.

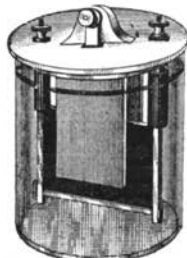
<i>Darwin</i>	10405	Cell, complete, porcelain jar..... 2.20
		Renewal parts
<i>Dassel</i>	10406	Two zinc plates (capacity one charge) ..... .28
<i>Daung</i>	10407	Copper oxide plate (capacity one charge).... .31
<i>Davenport</i>	10408	Can containing one charge caustic potash.... .17
<i>Davidson</i>	10425	Bottle heavy paraffine oil (sufficient for 1 ch.) .06

Type "R" Cell.

Gas Engine and R. R. Crossing Signal Model.

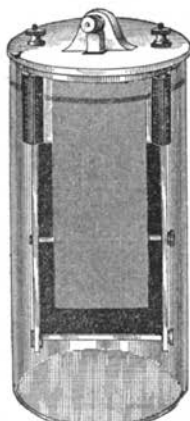
Size over all, 6½ in. x 10 in.

Capacity, 300 ampere hours.



No. 10410.

<i>Davis</i>	10410	Cell, complete, porcelain jar..... 2.90
		Renewal parts.
<i>Daviesboro</i>	10411	Two zinc plates (capacity 1 charge)..... .50
<i>Dawkins</i>	10412	Copper oxide plate (capacity one charge).... .55
<i>Dawlish</i>	10413	Can containing one charge caustic potash.... .28
<i>Dawson</i>	10414	Bottle heavy paraffine oil (sufficient for 1 ch.) .07



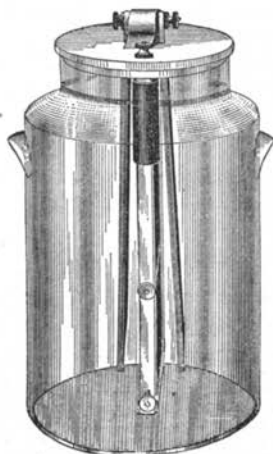
No. 10415.

Type "S" Cell.**Phonograph and Fan Motor Model.**

Size over all, 5½ in. x 13 in.

Capacity, 300 ampere hours.

Code Word.	List No.	List Price.
<i>Dayton</i>	10415 Cell, complete, porcelain jar.....	\$3.00
	Renewal parts.	
<i>Dayton</i>	10416 Two zinc plates (capacity 1 charge) .....	.50
<i>Dayton</i>	10417 Two copper oxide plates (capacity 1 charge) ..	.62
<i>Deadham</i>	10418 Can containing one charge caustic potash...	.28
<i>Deadwood</i>	10419 Bottle heavy paraffine oil (sufficient for 1 ch.)	.06



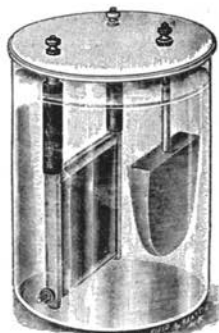
No. 10420.

Type "W" Cell.**Cautery and Dental Motor Model.**

Size over all, 7¼ in. x 15 in.

Capacity, 600 ampere hours.

<i>Dean</i>	10420 Cell, complete, porcelain jar.....	4.85
	Renewal parts.	
<i>Dearborn</i>	10421 Two zinc plates (capacity 1 charge).....	.82
<i>Decater</i>	10422 Two copper oxide plates (capacity 1 charge) ..	1.10
<i>Decherd</i>	10423 Can containing one charge caustic potash...	.52
<i>Decorah</i>	10424 Bottle heavy paraffine oil (sufficient for 1 ch.)	.08



No. 4186.

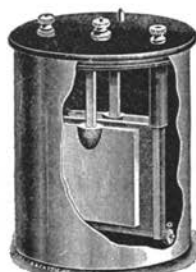
Type "Y" Cell.

Track Circuit and Crossing Bell Signal Model.

Size over all, 6½ in. x 10 in.

Capacity, 300 ampere hours.

Code Word.	List No.	List Price.
<i>Fash</i>	4186 Cell, complete, porcelain jar.....	\$2.50
	Renewal parts.	
<i>Fashery</i>	4187 One zinc plate (capacity 1 charge).....	.35
<i>Fashion</i>	4188 One oxide plate (capacity 1 charge).....	.55
<i>Fashionab</i>	4189 One can caustic potash (capacity 1 charge) ...	.28
<i>Fashiond</i>	4190 One bottle heavy paraffine oil (capacity 1 ch.)..	.07



No. 4191.

Type "V" Cell.

Marine and Traction Gas Engine Model.

Size over all, 5½ in. x 8 in.

Capacity, 150 ampere hours.

<i>Fashious.</i>	4191 Cell, complete, liquid tight steel enameled jar.	2.50
	Renewal parts.	
<i>Fasil</i>	4192 One copper oxide plate (capacity one charge)..	.31
<i>Faskibar</i>	4193 One zinc plate (capacity 1 charge).....	.35
<i>Fass</i>	4194 One can caustic potash (capacity 1 charge)....	.17
<i>Fassite</i>	4195 One bottle heavy paraffine oil (capacity 1 ch.)..	.06
<i>Fast</i>	4196 Soft rubber gasket ring, each.....	.12



No. 4197.

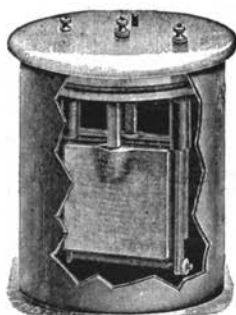
Type "Z" Cell.

Small Marine and Traction Gas Engine Model.

Size over all, 4½ in. x 6½ in.

Capacity, 100 ampere hours.

<i>Fastday</i>	4197 Cell, complete, liquid tight steel enameled jar.	2.00
	Renewal parts.	
<i>Fasten</i>	4198 One copper oxide plate (capacity 1 charge)....	.24
<i>Fastend</i>	4199 One zinc plate (capacity 1 charge).....	.28
<i>Fastener</i>	4200 One can caustic potash (capacity 1 charge)....	.15
<i>Fastening</i>	4201 One bottle heavy paraffine oil (capacity 1 ch.)..	.05
<i>Fastens</i>	4202 Soft rubber gasket ring, each.....	.12



No. 4130.

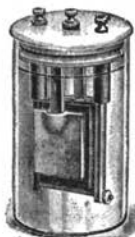
Type "AA" Cell.

Marine and Traction Gas Engine Model.

Size over all, 6½ in. x 10 in.

Capacity, 300 ampere hours.

Code Word.	List No.	List Price.
<i>Fare</i>	4130 Cell, complete, liquid tight steel enameled jar.	\$3.50
	Renewal parts.	
<i>Formell</i>	4131 One copper oxide plate (capacity 1 charge)....	.55
<i>Forfamed</i>	4132 One zinc plate (capacity 1 charge).....	.55
<i>Forfatch</i>	4133 One can caustic potash (capacity 1 charge)....	.28
<i>Forfetched</i>	4136 Bottle Heavy paraffine oil (1 charge).....	.07



No. 4137.

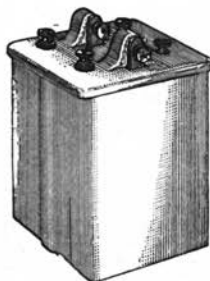
Type "BB" Cell.

Slot Machine and Small Gas Engine Model.

Size over all, 4½ in. x 7½ in.

Capacity, 100 ampere hours.

<i>Forinace</i>	4137 Cell, complete, with porcelain jar.....	1.50
	Renewal parts.	
<i>Forloberry</i>	4138 One copper oxide plate (capacity 1 charge)...	.24
<i>Fori</i>	4139 One zinc plate (capacity 1 charge).....	.28
<i>Forlie</i>	4140 One can caustic potash (capacity 1 charge)....	.15
<i>Formary</i>	4141 Bottle heavy paraffine oil (1 charge).....	.05



No. 4181.

Type "X" Cell.

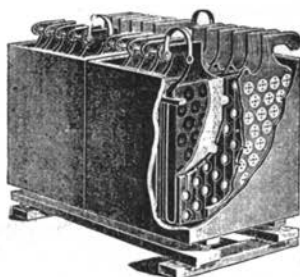
Special Telephone Model for Local and Long Distance Transmitters.

Size over all, 4½ in. x 4½ in. x 7½ in.

Capacity, 40 ampere hours.

The cell is made to fit battery box under transmitter.

<i>Fasciols</i>	4181 Cell, complete, porcelain jar	2.60
	Renewal parts.	
<i>Fasciolet</i>	4182 Two copper oxide plates (capacity 1 charge)...	.28
<i>Fascis</i>	4183 Two zinc plates (capacity 1 charge).....	.20
<i>Fase</i>	4184 One can caustic potash (capacity 1 charge)...	.20
<i>Fasel</i>	4185 Bottle heavy paraffine oil (capacity 1 charge)	.06



Storage Batteries.

Chloride Accumulators for Various Purposes.

Chloride Accumulators are made in special sizes to be used in a variety of places, and for many different classes of work, practically including the entire field of applied electricity in all its forms.

The voltage of cells of all sizes is slightly above two volts on open circuit, and during discharge varies from that point at the beginning to 1.75 at the end.

In ordering elements, or parts thereof, specify whether intended for glass or rubber jar.

Elements of Type "B" and "C."

TYPE "B"		TYPE "C"			
Size of Plates, 3 inches by 3 inches.		Size of Plates, 4 inches x 4 inches.			
Number of Plates.....	3	3	5	7	
Discharge in Amperes { For 8 hours.....	1	1½	2½	3½	
" 5 ".....	1½	2½	3½	5½	
" 3 ".....	2	3	5	7½	
Normal charge rate.....	1	1½	2½	3½	
Weight of each element, in lbs.....	3	5	8	11	
Outside measurement { Width.....	1½	2	3	3½	
of rubber jar, in { Length.....	3½	4½	4½	4½	
inches.....	5	7	7	7	
Outside measurement { Width.....	2½	3	4	5½	
of glass jar, in { Length.....	4	5½	5½	5½	
inches.....	4½	6½	6½	6½	
Weight of acid in glass jars, in lbs.....	1	3½	4	5	
Weight of acid in rubber jars, in lbs.....	½	1	2½	2½	
Weight of cell, complete, with acid, in rubber jars, in lbs.....	4	6½	10½	14½	
Height of cell over all, in inches.....	8	10	10	10	
Price per Element, only.....	\$1.50	\$2.25	\$3.50	\$5.00	
Price Rubber Jar, extra.....	.90	1.12	1.30	1.60	
Price Glass Jar, extra.....	.15	.15	.25	.30	

Elements of Type "D."

Size of Plates 6 inches by 6 inches.

Number of plates.....	3	5	7	9	11	13
Discharge in { For 8 hours.....	2½	5	7½	10	12½	15
Amperes { " 5 ".....	3½	7	10½	14	17½	21
" 3 ".....	5	10	15	20	25	30
Normal charge rate.....	2½	5	7½	10	12½	15
Weight, each element, lbs.....	8	14	20	26	32	38
Outside measurement { Width.....	2	3	3½	5	6½	7½
of rubber jar in { Length.....	6½	6½	6½	6½	6½	6½
inches.....	9	9	9	9	9	9
Outside measurement { Width.....	3½	4½	6½	7½	7½	7½
of glass jar in { Length.....	7½	7½	7½	8½	8½	8½
inches.....	9½	9½	8½	8½	8½	8½
Weight of acid in glass jars in lbs.....	6	9½	13½	16½	14½	13
" " " rubber " ".....	2½	3½	5½	7	8½	10
Weight of cell complete, with acid, in rubber jars, in lbs.....	11½	18½	26	35	42½	50
Height of cell over all, in inches.....	12½	12½	12½	12½	12½	12½
Price per Element, only.....	\$ 3.00	\$ 5.00	\$ 6.75	\$ 8.50	\$10.50	\$12.50
Price Rubber Jar, extra.....	1.65	2.00	2.25	2.70	3.40	3.90
Price Glass Jar, extra.....	.75	.75	.75	.80	1.20	1.50

Storage Batteries—(Continued.)

Chloride Accumulators.

Elements of Type "E."

Size of Plates, 7½ inches by 7½ inches.



Number of Plates	5	7	9	11	13	15
Discharge in { For 8 hours.	10	15	20	25	30	35
Amperes { " 5 "	14	21	28	35	42	49
" 3 "	20	30	40	50	60	70
Normal charge rate.	10	15	20	25	30	35
Weight each element, lbs.	32	33	43	52	62	71
Outside measurem't { Width	2½	3½	5	6½	8½	8½
of rubber jar, in { Length	8½	8½	8½	8½	8½	8½
inches. { Height	11	11	11	11	11	11
Outside measurem't { Width	5½	6½	8	8½	11	11
of glass jar in { Length	9½	9½	9½	9½	9½	9½
inches. { Height	11½	11½	11½	11½	11½	11½
Weight of acid in glass jar, in lbs.	17	21	25	27	35	34
" " " rubber " " "	6½	9	11½	14	17½	21
Weight of cell, complete, with acid in rubber jar, in lbs.	31	42	54	66	79	91
Height of cell over all, in inches.	14½	14½	14½	14½	14½	14½
Price per Element, only	\$ 8.25	\$11.75	\$15.00	\$18.75	\$22.50	\$26.25
Price Rubber Jar, extra	2.75	3.10	3.40	4.60	5.45	5.60
Price Glass Jar, extra	.75	1.10	1.20	1.25	1.50	1.50

NOTE. Rubber Jars, types 5 to 9 "E" have ½ inch wall.

Rubber Jars, types 11 to 15 "E" have 5/32 inch wall.

Elements of Type "F."

Size of Plates, 10½ inches by 10½ inches.

Number of Plates	9	11	13	15	17	19
Discharge in { For 8 hours	40	50	60	70	80	90
Amperes { " 5 "	56	70	84	98	112	126
" 3 "	80	100	120	140	160	180
Normal charge rate.	40	50	60	70	80	90
Weight each Element, lbs.	86	106	125	145	165	184
Outside measurem't { Width	9	10½	10½	12	12½	12½
of glass jar, in { Length	12½	12½	12½	12½	12½	12½
inches. { Height	15½	15½	15½	15½	15½	15½
Outside measurem't { Width	16½	18½	18½	20	21½	21½
of lead-lined tank, in inches. { Height	15	15	15	15	15	15
Weight of acid in glass jars, in lbs.	53	61	58	70	77	77
Weight of acid in lead tank, in lbs.	94	104	114	124	124	124
Weight of cell, complete with acid in lead-lined tank	302	339	376	415	415	415
Height of cell over all, in inches.	18	18	18	19	19	19
Price per Element, only	\$30.00	\$37.50	\$45.00	\$52.50	\$60.00	\$67.50
Price Glass Jar, extra	4.00	5.00	5.00	6.00	6.00	6.00
Price Lead-Lined Wood Tank, extra	12.50	12.50	12.50	15.00	15.00	15.00

N. B.—In ordering new elements, or parts thereof, specify whether intended for glass or wood tank.

Renewals.

Type Elements	Positive Plates	Negative Plates	Asbestos	Rubber Ring Separators	Corrugated and Perforated Rubber Separators
"B"....	\$.60	\$.45	\$.05	\$.04	\$.05
"C"....	1.00	.70	.10	.06	.07
"D"....	1.25	.85	.20	.07	.13
"E"....	2.10	1.40	.40	.09	.21
"F"....	4.00	2.80	.80	.11	.39



Chloride Accumulators—(Continued).

In Portable Hardwood Cases.

For portable use, in connection with phonograph, kinetoscope and other small motor work and small electric lamps, Chloride Accumulators are put up in sealed rubber jars, enclosed in neat hardwood cases, provided with handles and binding posts. Various capacities are furnished, as per list following, in which prices are given for batteries complete, filled with acid, and charged up ready for immediate use.

The normal charge and discharge rate is the highest rate in amperes at which the battery should be worked. At this rate the battery will be fully charged in eleven hours and discharged in ten hours. At less than normal rates the length of time is increased in both instances.

Each cell gives two volts, and as all the cells in a case are connected together in series, the number of cells multiplied by 2 will give the voltage between the two binding posts attached to each case.

PORTABLE BATTERIES.

Number of cells in Case.	Type and Number of Plates.	Normal Charge and Discharge Rate.	Outside Dimensions of Case, Inches.			Height over Lugs, in.	Weight Complete, Pounds.	Price Complete, Charged.
			Ampères.	Wide.	Long.	High.		
1	"C" 3	1½	8	x 5½	x 10½	11½	8	\$ 5 00
2	"	1½	4½	x 5½	x 10½	11½	14	9 00
3	"	1½	6½	x 5½	x 10½	11½	20	12 50
4	"	1½	8½	x 5½	x 10½	11½	26	16 00
5	"	1½	10	x 5½	x 10½	11½	32	19 00
1	"D" 3	2½	3½	x 7½	x 12½	13½	15	6 50
2	"	2½	5½	x 7½	x 12½	13½	26	12 00
3	"	2½	7½	x 7½	x 12½	13½	37	16 50
4	"	2½	9½	x 7½	x 12½	13½	48	21 00
5	"	2½	11½	x 7½	x 12½	13½	59	25 00
1	"D" 5	5	4½	x 7½	x 12½	13½	24	10 00
2	"	5	7½	x 7½	x 12½	13½	43	18 00
3	"	5	10½	x 7½	x 12½	13½	62	26 00
4	"	5	14	x 7½	x 12½	13½	81	32 00
5	"	5	17½	x 7½	x 12½	13½	100	38 00
1	"D" 7	7½	5½	x 7½	x 12½	13½	33	12 00
2	"	7½	9½	x 7½	x 12½	13½	58	22 00
3	"	7½	13½	x 7½	x 12½	13½	83	30 00
4	"	7½	17½	x 7½	x 12½	13½	108	40 00
5	"	7½	21½	x 7½	x 12½	13½	133	50 00
1	"E" 5	10	4½	x 10	x 14½	15½	37	14 50
2	"	10	7½	x 10	x 14½	15½	67	28 00
3	"	10	10½	x 10	x 14½	15½	97	40 00
4	"	10	13½	x 10	x 14½	15½	127	50 00
5	"	10	16½	x 10	x 14½	15½	157	60 00
1	"E" 7	15	5½	x 10	x 14½	15½	47	18 00
2	"	15	9½	x 10	x 14½	15½	92	35 00
3	"	15	14	x 10	x 14½	15½	137	50 00
4	"	15	17½	x 10	x 14½	15½	182	60 00
1	"E" 9	20	6½	x 10	x 14½	15½	51	21 00
1	"E" 11	25	7½	x 10	x 14½	15½	61	25 00



Storage Batteries—(Continued.)

Directions for Setting Up and Using the Chloride Accumulator.

The acid to be used should have a specific gravity in the first instance of 1200 (25 degrees Baume), at which strength it should be maintained when the cells are fully charged.

In preparing the dilute sulphuric acid a good commercial acid of 66 degrees Baumé may be used, in the proportion of three parts of water to one of acid; by volume, not by weight. The acid must be cold when poured on the element. In mixing the acid and water pour the acid slowly into the water: on no account pour water into acid.

When it is necessary to obtain the maximum discharge the cells should be charged to 2.7 volts, although, in general use, it is not necessary to charge the cell to that point, 2.5 being sufficient. It will be found that this element will read high, both in charge and in discharge. The cells may be discharged down to 1.7 volts each without injury. Volt reading should be taken on *closed circuit*, when cells are charging or discharging at normal rates. When the cells are set up, the first charge should be continued for twenty hours.

Where accurate voltmeters are not used to determine the amount of charging necessary, it is advisable to put into the cell about ten per cent. more current than it has delivered.

All connections should be firmly made after parts of contact are made clean and bright. The positive lug is dark colored. The negative lug is always connected to the outside plates, and consequently to the larger number—that is, an 11-plate element has 5 positive and 6 negative plates.

Care should be taken to keep the plates entirely immersed in acid, although it is not necessary to have the acid more than half an inch above the top of the plates.

The cell will not give its maximum capacity until it has been subjected to from 10 to 15 discharges, but will have at first about three-fourths of its maximum. Cells should not be allowed to remain idle after 75 per cent. of their capacity has been taken out of them.

When cells are to remain idle for a period longer than two months, charge them up thoroughly, and then discharge for about two hours at normal rates. Remove the acid from the cells and rinse them out thoroughly with clean water. When next required for use, replace the acid and charge at normal rates for not less than eighteen hours.



Fig. 1.

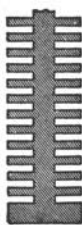


Fig. 2.

The American Storage Cell.

The Plate is made from a solid sheet of pure rolled lead grooved on both sides as shown in Fig. 2.

The "Active Material" is formed from the lead itself by an electro-chemical process and is strongly adherent. The solution has free access to every part of the plate, no wooden, asbestos or other diaphragm being used, and since the active material is in such close contact with the plate itself, the internal resistance is remarkably low. The formation of peroxide of lead is sufficiently porous so as to utilize with the least loss the reaction in the solution occasioned by the charge or discharge. This construction enables the cell to be charged at a minimum E. M. F. and to be discharged at a maximum. It also permits high discharge rates at a high, constant E. M. F. The plate as shown in Fig. 1 possesses all the mechanical requirements necessary to insure long life, and consequently implies the use of considerable lead. In the large cells no greater capacity than two and one-half ampere hours is obtained for each pound of element.

Prices, etc., on elements and lead-lined tanks for cells of 480 ampere hours capacity and upwards furnished on application.

The liquid used in these cells consists of a mixture of one part by volume of sulphuric acid to five part water. Specific gravity 1.19 or 23° Baume.

When cells in "rubber" containing jars are ordered, they will be shipped complete, including solution, charged ready for use. When elements with glass jars are ordered they will be shipped separately.

PRICE LIST.

Type.	Voltage.	Low Rate of Discharge.	Normal Rate of Discharge.	High Rate of Discharge.	Cap. in Amp. Hrs. Low Rate Disch.	Capacity Normal Rate of Discharge.	Capacity, High Rate of Discharge.	Normal Charging Rate.	External Dimensions Glass Containing Jar in inches.				External Dimensions Rubber Containing Cell in inches.				Price complete in Glass Jar.	Price complete in Rubber Jar.	Boxing.
									Length.	Width.	Height.	Weight of Elements and Jar in pounds.	Length.	Width.	Height.	Wgt. comp. with 5% H ₂ O in pounds.			
R. 1..	2	1	1	1	12	8	6	1	3	2	6	5	1	3	2	5	2.50	3.25	.10
W. 1..	2	1	1	1	20	16	12	2	5	2	7	9	2	4	2	8	3.75	4.75	.15
N. 1..	2	1	1	1	40	30	20	4	7	3	10	12	4	6	3	10	7.00	8.25	.15
N. 2..	2	1	1	1	15	90	60	10	7	4	10	32	6	6	4	10	10.00	12.00	.20
N. 3..	2	1	1	1	22	135	90	15	7	6	10	45	8	6	5	10	13.00	15.00	.25
N. 4..	2	1	1	1	20	30	180	160	120	20	7	57	10	7	6	10	16.50	18.00	.25
N. 5..	2	1	1	1	25	38	225	200	150	25	9	69	14	8	6	10	19.75	21.25	.30
N. 6..	2	1	1	1	30	45	270	240	180	30	10	82	16	8	6	10	23.25	25.00	.35
V. 5..	2	1	1	1	38	50	325	300	250	38	10	120	22	8	6	10	30.00	32.00	.40
V. 6..	2	1	1	1	45	60	390	360	300	45	12	143	30	8	6	10	36.00	38.00	.50
V. 7..	2	1	1	1	53	70	455	420	350	53	14	165	38	8	6	10	43.00	45.00	.60

Sealing Compound, for use in sealing covers in rubber jars... per lb. \$0.30
 Protective Paint, for covering exposed brass parts..... per pint. .75
 Bolt Connectors..... per pair, \$0.25
 Clamp Connectors..... " .50



Fig. 3.
Cabinet Battery.

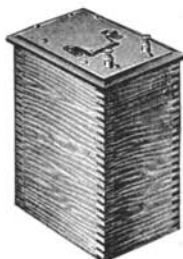


Fig. 4.
Caution Battery.

The American Portable Storage Cells.

These cells are substantially constructed and are of a high grade both electrically and mechanically. They require a minimum amount of care.

They are made in a number of styles and in a variety of sizes, which make them suitable for all forms of service to which a portable battery is applicable.

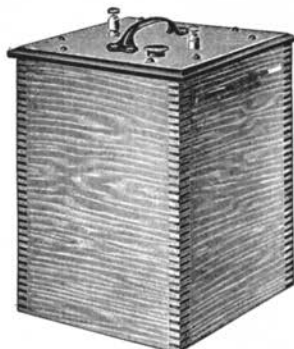


Fig. 1.
Phonograph Battery.

PRICE LIST OF PORTABLE CELLS.

	Type.	Voltage.	Normal Rate of Discharge.	Capacity, Amp. Hrs., Normal Rate of Discharge.	Low Rate of Discharge.	Capacity, Amp. Hrs., Low Rate of Discharge.	Normal Charging Rate.	Weight, in lbs.	External dimensions in inches.			Price.
									Length.	Width.	Height.	
CABINET BATTERIES. Portable Form.—Consisting of two or more Cells connected in series for lighting miniature lamps neatly encased in nicely finished oak box with handle and binding posts, as per Fig. 3.	R. C. 1.....	4	1	8	↓	12	1	12	5	5	8	9 00
	W. C. 1.....	4	2	16	↓	20	2	20	6	6	10	12 25
	R. X. 1.....	6	1	8	↓	12	1	12	8	8	10	12 75
	W. X. 1.....	6	2	16	↓	20	2	20	8	8	10	17 50
	R. K. 1.....	8	1	8	↓	12	1	24	9 1/2	5	8	16 25
	W. K. 1.....	8	2	16	↓	20	2	38	8 1/2	6	10	25 00
	R. F. 1.....	10	1	8	↓	12	1	30	12 1/2	5	10	21 00
	W. F. 1.....	10	2	16	↓	20	2	48	12	6	10	29 00
PHONOGRAPH PATTERN For operating Phonographs, Fan Motors, Dental Motors, etc. as per Fig. 5.	N. P. 1.....	2	5	40	3	45	5	24	8	4 1/2	12 1/2	9 75
	N. P. 2.....	2	10	80	4	90	10	38	8	6	12 1/2	13 50
	N. P. 3.....	2	15	120	6	150	15	54	8	8	12 1/2	16 50
	N. P. 4.....	2	20	160	8	200	20	66	8	8	12 1/2	19 50
	N. C. 1.....	4	5	40	3	45	5	46	8	6 1/2	12 1/2	19 50
	N. C. 2.....	4	10	80	4	90	10	75	10	8	12 1/2	27 00
CAUTION STYLE (Fig. 4) With Physicians Caution Rheostat mounted on case, \$10.00 extra.	N. C. 3.....	4	15	120	6	150	15	110	14	8	12 1/2	33 00
	N. C. 4.....	4	20	160	8	200	20	135	16	8	12 1/2	39 00
	N. X. 1.....	6	5	40	3	45	5	70	10	8	12 1/2	29 00
	N. X. 2.....	6	10	80	4	90	10	115	16	8	12 1/2	40 00
SIX VOLT BATTERIES for operating X Ray Apparatus.	N. X. 3.....	6	15	120	6	150	15	160	20	8	12 1/2	49 00
	N. X. 4.....	6	20	160	8	200	20	200	24	8	12 1/2	58 00
KINOTOSCOPE BATTERIES.	N. K. 1.....	8	5	40	3	45	5	90	14	8	12 1/2	38 00
	N. K. 2.....	8	10	80	4	90	10	145	20	8	12 1/2	54 00

Battery Zincs.

Code Word. List No

List Price.



No. 10004.

LeClanche Square.		
<i>Deposit</i>	10004	With brass thumb screw, per thousand.. \$60.00
<i>Dermid</i>	10450	With zinc " " " " .. 64.00
<i>Derry</i>	10451	With short dowel and brass nuts " " .. 70.00
<i>Deseronto</i>	10452	With long " " " nut " " .. 70.00



No 10453.

<i>Desereux</i>	10453	LeClanche round, per thousand..... 50.00
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No. 10083

<i>Devon</i>	10083	Carbon Cylinder, per thousand..... 60.00
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No. 10054.

<i>Desoy</i>	10054	Bag, each..... .22
<i>Dido</i>	10062	Samson No. 1, each..... .18
<i>Dighton</i>	10072	Samson No. 2, each..... .19½



No. 10252.

<i>Dodson</i>	10252	Crowfoot (for 5x7 jar) each..... .25
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No. 10257.

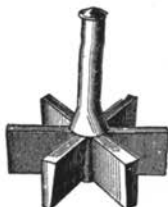
Battery Zincs—(Continued).

Code Word,	List No.	List Price
<i>Dolores</i>		Each
	10257 Crowfoot, 6 inch.....	\$.40
	Weight, 3 pounds.	



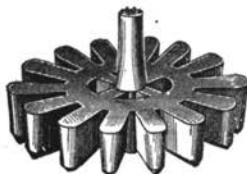
No. 10455.

<i>Domino</i>	10455 Star, 6 inch.....	.40
	Weight, 3 pounds, 2 ozs.	



No. 10456.

<i>Doncet</i>	10456 Star.....	.26
	Weight, 2 pounds.	



No. 10460.

<i>Donars</i>	10460 Edison No. 1, 7 in. diam.....	.56
	Weight, 5 pounds 1 oz.	



No. 10267.

Battery Zincs—(Continued).

Code Word.	List No.	List Price each.
<i>Dongola</i>	10267 Lookwood	\$.25
	Weight, 1 pound 14 oza.	



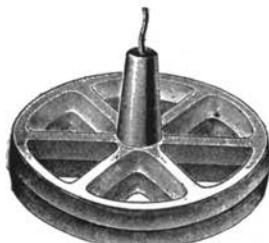
No. 10462.

<i>Doniphan</i>	10462 Signal for track circuit work.....	.54
	Weight, 3 pounds 6 oza.	



No. 10463.

<i>Donnelly</i>	10463 Gamewell.....	.38
	Weight, 3 pounds.	



No. 10262.

<i>Donohue</i>	10464 Wheel, 6x8.....	.40
<i>Donovan</i>	10262 Wheel, 7x8.....	.64
	Weight.	
	6x8, 3 pounds.	
	7x8, 3 pounds 14 oza.	



No. 10195.

Battery Zincs—(Continued).

Code Word.	List No.	List Price. Each.
<i>Dorchester</i>	10195 Bunsen, 4 inch.....	\$.60
	Weight.	
	3 pounds 2 oz.	



No. 10205

<i>Dorr</i>	10205 Bunsen, 6x8.....	1.65
<i>Dorset</i>	10215 Bunsen, 6x9x8.....	1.80
	Weight.	
	6x8, 4 pounds.	
	6x9x8, 4¼ pounds.	



No. 10164.

<i>Doss</i>	10164 Grove.....	.40
	Weight, 2¼ pounds.	



No. 10124.

Battery Zincs—(Continued)

Code Word	List No.	List Price. Each.
<i>Dothan</i>	10124 Fuller, 5x7.....	\$.16
<i>Douglas</i>	10129 Fuller, 6x8.....	.20



No. 10241.

<i>Dover</i>	10241 Daniell.....	.32
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No. 10168.

		Grenet.	
<i>Douglas</i>	10168 For 6 inch battery.....		.20
<i>Downing</i>	10173 " 8 " ".....		.25
<i>Downey</i>	10178 " 10 " ".....		.30
<i>Downing</i>	10183 " 12 " ".....		.35



No. 10469.

Battery Zincs—(Continued).

Beattie.

Code Word.	List No.	List Price. Each.
<i>Downs</i>	10469 Crowfoot, 6x8.....	\$.46
	Weight, 3 pounds.	



No. 10470.

<i>Draketown</i>	10470 Gamewell, 6x8 .....	.46
	Weight, 3 pounds	



No. 10471.

<i>Dwyer</i>	10471 Standard, 6x8 .....	.60
	Weight, 4 pounds.	



No. 10465.

Battery Zincs—(Continued).**Beattie—(Continued).**

Code Word.	List No	List Price. Each.
<i>Drayton</i>	10465 Lockwood, 6x8.....	\$.38
	Weight, 2½ pounds.	



No. 10466.

<i>Dresden</i>	10466 Wheel, 6x8 .....	.46
	Weight, 3 pounds.	



No. 10467.

<i>Drezel</i>	10467 Star, 5½ inch, 6x8.....	.38
	Weight, 2½ pounds.	



No. 10468.

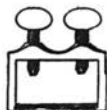
<i>Drifton</i>	10468 Star, 5 inch, 6x8....	.38
	Weight, 2½ pounds.	



Carbon Plates.

For Battery Purposes.

Code Word.	List No.	Inches Long.	Inches Wide.	Inches Thk.	List Price. Each.
<i>Earle</i>	10540	1½	1½	½	\$0.05
<i>Earley</i>	10541	2½	1½	½	.05
<i>Earham</i>	10542	3½	1	½	.05
<i>Easton</i>	10543	3½	1½	½	.06
<i>Eastwood</i>	10544	4½	1½	½	.07
<i>Eaton</i>	10545	5½	1½	½	.08
<i>Eatonton</i>	10546	6	1½	½	.11
<i>Eben</i>	10547	6	1½	½	.11
<i>Ebensburg</i>	10548	6	1½	½	.14
<i>Ecorces</i>	10549	4	1½	½	.05
<i>Eddystone</i>	10550	3	2	½	.06
<i>Edenton</i>	10551	3	2	½	.06
<i>Edgarton</i>	10552	3½	2½	½	.06
<i>Edgefield</i>	10553	4½	2½	½	.10
<i>Edgely</i>	10554	6	½	½	.08
<i>Edgerley</i>	10555	6	½	½	.08
<i>Edgerton</i>	10556	6	1½	½	.20
<i>Edgewood</i>	10557	8	1½	½	.20
<i>Edinburg</i>	10558	8	2	½	.30
<i>Edmundson</i>	10559	9	2	½	.20
<i>Ednatown</i>	10560	9	2	½	.35
<i>Edwards</i>	10561	10	2	½	.35
<i>Eftingham</i>	10562	6	3	½	.20
<i>Egan</i>	10563	7	4½	½	.40
<i>Egypt</i>	10564	6	1½	½	.20
<i>Elba</i>	10565	9	2	½	.40
<i>Elberton</i>	10566	7	4	½	.30
<i>Eldon</i>	10567	6½	4	½	.30
<i>Eldora</i>	10568	7½	4½	½	.35
<i>Elorado</i>	10569	10	6	½	.40
<i>Eldred</i>	10570	10	6	½	.50
<i>Eldridge</i>	10571	9	6	½	.60
<i>Elea</i>	10572	9	6	½	.60
<i>Elgin</i>	10573	12	6	½	.60
<i>Elida</i>	10574	12	12	½	1.40
<i>Elizabeth</i>	10575	12	6	½	.70
<i>Elkton</i>	10576	12	6	½	.80
<i>Elkoder</i>	10577	16	5	½	1.16
<i>Elkharte</i>	10578	12	3½	1	.88
<i>Elkhorne</i>	10579	10	5	1	1.80
<i>Elkland</i>	10580	10	5	2	2.40



Zinc and Carbon Clamps and Connectors.

Code Word.	List No.		List Price. Each.
<i>Dubois</i>	10206	Carbon clamp.....	\$.20
<i>Dubugue</i>	10207	Wire connector with platinum contacts...	.30



<i>Dudley</i>	10194	Carbon clamp.....	.30
<i>Dudsnell</i>	10197	" "	.20



<i>Duluth</i>	10208	Carbon clamp.....	.40
<i>Dumbarton</i>	10209	Zinc " .....	.30

Dummerston 10218 Wire connection with platinum contacts... 20

<i>Felted</i>	4461	Small rubber ring for pencil zines.....per 100,	1.00
<i>Feltor</i>	4462	Large " " " " " " " " " " " "	2.00
<i>Felth</i>	4463	" " " " for No. 3 bag battery. " " " "	5.00
<i>Felting</i>	4464	" " " " " Gonda battery....." " " "	3.00
<i>Feltness</i>	4465	" " " " " No. 1 Sampson battery....." " " "	3.00
<i>Felty</i>	4466	" " Plug " " No. 1 Sampson battery....." " " "	2.00



Battery Supplies.

Sal-Ammoniac.

IMPORTED.

Code Word.	List No.	Over 99 per cent pure.	List Price.
<i>Dundee</i>	10500	Per pound	\$.20
Special price in barrel lots.			



Blue Vitriol.

<i>Dunellen</i>	10502	Per pound .....	.10
Special price in barrel lots.			



Zinc Plates.

FOR BATTERY PURPOSES.

<i>Dunfos</i>	10505	$\frac{1}{8}$ inch thick, per pound.....	.20
<i>Dunham</i>	10506	$\frac{1}{4}$ " " " .....	.20
<i>Dunkerton</i>	10507	$\frac{3}{8}$ " " " .....	.20
<i>Dunkirk</i>	10508	$\frac{1}{2}$ " " " .....	.20
<i>Dunkirkel</i>	10509	$\frac{5}{8}$ " " " .....	.20
<i>Dunlap</i>	10510	$\frac{3}{4}$ " " " .....	.20
<i>Dentleth</i>	10511	$\frac{7}{8}$ " " " .....	.20

Miscellaneous.

<i>Dunmore</i>	10515	Bichromate Potash, per lb.....	.25
<i>Dunreith</i>	10516	Bisulphate of Mercury, per oz. ....	.10
<i>Dupont</i>	10517	Fluid for Carbon Battery, per lb .....	.10
<i>Durango</i>	10519	Quicksilver, per lb At lowest market price.	
<i>Durant</i>	10520	Sulphate of Zinc, per lb .....	.10
<i>Durham</i>	10521	Tin Foil, per lb.....	.50
<i>Durhampton</i>	10522	Sulphuric Acid, per lb .....	.10
<i>Duringsfold</i>	10523	Platinum, per dwt. At lowest market price.	
<i>Feeler</i>	4389	Paraffine Wax, per lb.....	.30



No. 10490.

Battery Utensils.

Battery Syringe.

Code Word.	List No.	List Price.
<i>Dumont</i>	10490	Syringe, No. 6, solid piston, each..... \$2.00
<i>Dunand</i>	10491	Extra pipes, each..... .40
<i>Dunbar</i>	10492	Extra valves, each..... .30



No. 10495.

Hydrometer.

<i>Dunbridge</i>	10495	Each.....	.40
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No. 10497.

Battery Brush.

<i>Duncan</i>	10497	Per dozen.....	1.25
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No. 10498.

Battery Knife.

<i>Duncannon</i>	10498	Each.....	1.50
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No. 4467.

Eldredge Battery Voltmeter.

A most convenient and practical instrument for all users of Batteries, either primary or storage, dry or wet. Made in shape and about same size of an ordinary watch, and is intended to carry in vest pocket. Case is heavily nicked and is neat. Simple in construction and not liable to injury with ordinary use. Its range will cover 2 cells of primary or 1 cell of storage battery. Non-removable nuts on strong contact posts add to its convenience in handling.

<i>Feltzfare</i>	4467	4.00
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No. 10499.

Warner Electric Gauge.

FOR TESTING BATTERIES.

This Gauge is valuable for testing single cells of a battery. In case of an exhausted or feeble current, touch the terminals of the Gauge to those of each cell and its condition will be shown at once. It can be carried in the pocket, and is intended for the use of inspectors on their daily rounds.

<i>Dundas</i>	10499	Each.....	15.00
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