POCKET LAMPS, ELECTRIC TORCHES.

Owing to the largely-increased demand for Pocket Flash Lamps, Electric Torches, &c., we are able to offer our customers almost wholesale prices. Each complete Lamp, Torch, Refill or Bulb is guaranteed to give a Brilliant Light before Despatch, and to have been thoroughly tested at our works in Twickenham.

THE "LITTLE GEM" TORCH.
A useful little miniature 2-volt Torch, measuring 3 in. long by ½ in. diam. Fits easily into waistcoat pocket. Supplied with powerful 2-volt Battery and a 2-volt metal filament lamp.

Each 1/9. Postage 2d. each.

THE "SEARCHLIGHT" TORCH.


Each 1/6. Postage 3d. Ditto but fitted with Metal Filament Lamp.

Each 2/6. Postage 3d.

THE "SUNRISE" TORCH.

Superior quality, in Handsome White or Black Polished Celluloid Case, Plated Sliding Switch, Powerful Screw Lens. Complete with 44-volt Battery and Bulb.

Size 6½ in. long 1½ in. diameter.

Each 2/6. Postage 4d. Ditto or fitted with Metal Filament Lamp.


THE "PREMIER" TORCH.
Splendidly finished, best workmanship throughout, fitted with specially selected Powerful Lens. Well made Sliding Switch, 44-volt Battery and Bulb. Size 9 in. long, 1½ in. diam.

Each 6/6. Postage 5d. or fitted with Metal Filament Lamp.

Each 7/6. Postage 5d.

SPECIAL NOTICE.
On receiving Pocket Lamps or Electric Torches, first take out Battery from case, either by sliding the lid or unscrewing the cap, and remove the paper from contacts. All our Pocket Lamps and Torches are protected in this way, so that it is impossible for the Lamp or Torch to light in transit.

THE "BRILLIANT" POCKET FLASH LAMP.

Comprises powerful Battery and Bulb, Plated Solenoid, Side Press, Imitation Leather Case with Plated Ends, each 1/0, or fitted with Metal Filament Lamp, each 1/9, or fitted with Metal Filament Lamp and Accumulator, "No. 002," each 4/9.

THE "RUBY" POCKET LAMP.
Superior Quality to "Brilliant," Cases Nickel Plated all over, Smooth Sides, with Sliding Bottom, Side Press and Powerful Bulbvue Lens. A Lamp we can recommend similar to illustration, 7 each, or fitted with Metal Filament Lamp 2 each, or with Metal Filament Lamp and non-spillable Accumulator, each 8. Postage 3d. each.

THE "BRILLIANT."
THE "M.E." POCKET LAMP.

Makes a Handsome Present for either Lady or Gentleman. The very latest in Pocket Lamps, Jewelled at Side, not as illustrated on top, Parabolic Reflector and Powerful Lens. The whole in Grey Clip Plated Case.

Each 1/10. Postage 4d.
If fitted with Metal Filament Lamp, Each 2/7. Postage 4d.
If fitted with Metal Filament Lamp and Non-Spillable Accumulator, Each 6/7. Postage 4d.

SPARE BULBS.


COLONIALS should always order export reffils supplied at slight extra cost, see page 23.

THE "DIAMOND" POCKET LAMP.

One of the most Handsome Lamps we know of in London. Especially designed with Powerful Lens selected from our best glass. The Case is splendidly finished, with hinged door. Fitted complete with Switch (not press), which makes it unnecessary for user to press button all the time light is required. Can be thoroughly recommended.

If fitted with Metal Filament Lamp, Each 3/0. Postage 4d.
If fitted with Metal Filament Lamp and Non-Spillable Accumulator, Each 6/7. Postage 4d.

IMMEDIATELY doubles the Light.

BULLSEYE LENS

to slide over any Pocket Lamp, Each 3d. Postage 1d.

ELECTRIC SCARF PIN SETS.

List No. 366. These Scarf Pins, Flowers, Ladies' Brooches, etc., are well finished and completely ready for light. Of most attractive design, they are specially adapted for Evening Parties. Give a powerful light immediate. Lynx is pressed from pocket. Flexible wires or atl.

THAT SMALL ACCUMULATOR, OUR "O.T." HAS MADE A NAME.

We have sold thousands at 2/ each. Can we dispatch one to you? 3/3 postage. See page 84.

FLASH LAMP AND TORCH REFILLS.


THE "EXPORT" BATTERY.

Full Instructions sent with each Battery. This is a pattern we thoroughly recommend to Colonial Customers. It is not affected by heat, climate, and can be kept in stock any length of time. In little water is necessary to put the Battery in action.

THE IMPROVED "EXHIBITION" OR "BAZAAR" COILS.

List No. 0132. THE "DEFIANCE" MEDICAL COIL. Splendid New Pattern has Switch, Controlling Switch On and Off, P. and S. Terminals, Battery Terminals, special Handles with Polished Wood Ends, Connecting Cords, Mounted on Polished Wood Base, measuring 9½ in. long by 4 in. wide. Bobbin wound with Green Silk Covered Wire, measuring 4½ in. long by 1½ in. diam. All parts heavily Nickel Plated.

EACH, 6/-; Postage 4d. extra.

THE "EXHIBITION" COILS. Entirely improved efficient and novel design most suitable for Exhibitions or Bazaars. The strength of shock using one battery is more than sufficient for one person, providing regulator is right cut. On the other hand it can be adjusted so that shock is hardly perceptible. Size of Base, 7½ ins. by 5½ ins. Length of Bobbin, 4½ ins. Size of Coil Flange, 1½ in. The Prices quoted include all the necessary handles, etc. These same Coils were described by a customer as "of neat workmanship and a marvel at the price."

List No. 412. Small Bobbin, 4½ ins. long and one switch. EACH, 9½; postage 5d. extra.

List No. 413. Large, (as illus.) 4½ ins. lg. & two " 10½/- 6d.

THE "AJAX" MEDICAL COIL. List No. 0130 (as illustration). Suitable for large use on the other hand, heavy use at Exhibitions, Bazaars, etc. The regulation of this coil is remarkable. It can be adjusted in the case of an Inflated so that the current is hardly perceptible, or increased so that 6 persons forming bands would get a powerful shock. Mounted on Handmade Bevelled Mahogany Pollard stand with unique High-Speed Tramplifier attachment under Glass Dome, Battery Terminals, P. & S. Stud, 7 way Lever, Reversing Switch, On & Off Switch.

EACH, 17½; Postage, 8d. extra.

CONTACT BREAKERS. (As illustration).


4½ in. Cheap 9
4½ in., Best Quality 11
6½ in. 1½
8½ in. 2½
9½ in. 3½
10½ in. 5½
11½ in. 6½

Postage, 1½ per Set extra.

3 per Set extra.

8½ in. 2½
9½ in. 3½
10½ in. 5½

5 per Set extra.

11½ in. 6½

3½"

Large sizes ask for quotation.

CALL IF POSSIBLE AND TEST THESE POPULAR COILS.

THE ECONOMIC ELECTRIC CO.
Telephone—316 P.O. Richmond
Telegrams—Economic, Twickenham

HIGH-CLASS MEDICAL APPARATUS.

MEDICAL COILS, to be serviceable, must be correctly designed and manufactured by experienced workmen. The Cheap Article is oftentimes worse than useless, and does more harm than good. In the following pages we give a selection of our High-Class Medical Apparatus, which we call, with every confidence, recommend to our customers. Members of the Medical Profession recommend a course of electrical treatment in preference to drugs, as a curative for Rheumatism, Gout, etc.

IMPROVED "ECNON" MEDICAL COILS. List No. 414. Will be found a Serviceable Coil at a Low Price. In Handmade Polish Mahogany Case, with Accessories, Splendid Regulator, Primary & Secondary Terminals, with One Bichromate Cell, Lifting Zinc (as illustration, but without drawer).

EACH ... 11/-; Postage 6d. extra.

List No. 415. Similar Coil as above, but Larger Bobbin, in Handmade Polish Mahogany Case, Nickel Plated Fittings, Drawer (as illustration) containing Accessories, Primary and Secondary Terminals, Delicate Regulator, Switch, and One Reliable Medical Dry Battery, contained in case, or Bichromate Battery, if preferred.

EACH ... 15/-; Postage 7d. extra.

Spare Dry Batteries, 1½ each, postage 8d. each.

THE "M.D." MEDICAL COIL. Specially suitable and recommended for Medical Profession or Home Use. It contains Two Powerful Dry Cells, which make it especially suitable for Export, Patent Silent Contact Breaker, with High-Speed Tramplifier, under Glass Dome, Regulator improved. It is impossible to leave current when Case is closed. Complete Set of Electrodes, with containing Drawer, Mounted in Handmade Selected Mahogany Case, Very Superior Appearance.

PRICE, with full Set of Electrodes, 27/-; plus passenger train.

Spare Export Dry Cells ... 2 each.

" E.C.C." ... 1

THE "COLONIAL" MEDICAL OUTFIT.

A perfect Balanced Coil, contained in Selected Satinwood Case, fitted with Improved Type of Export Battery, Plated Regulator, One-Way Lever Switch, Set of Complete Electrodes, Very Compact, Powerful, and handy to Carry.

EACH 14/-; Postage 6d. extra.

Spare Export Dry Battery, 1½.

Spare "E.C.C." Dry Battery, 1½.

Postage 3d. extra.

THE "COLONIAL." SPECIAL MEDICAL ACCESSORIES MADE TO ORDER.
THE "HOME" MEDICAL COIL.

This is a Handsome set and one that can be relied upon to give the purchaser entire satisfaction. Undoubtedly it is a Powerful Coil and one on which the regulation is perfect. Two methods are furnished, one is to put into operation by means of a two-way Lever Switch, 1 or 2 Dry Batteries at will, or by Slide Tube Regulator you can adjust the current to any desired strength. It is essentially a traveller's set, being very compact and light, contained in Real Walnut Polished Case, splendidly finished, Complete with large assortment of useful Electrodes.

PRICE, 27s. 6d. Carriage Forward.
Spare Batteries, 1/ each.

THE "JAP" INDICATING SHOCKING COIL.

THE "HOME" MEDICAL COIL.
LIST No. 1537. The "Jap" is the best pattern Coil fitted with indicator on base showing strength of shock. Primary and Secondary Terminals, Nickel Plated Brass. A thoroughly well made Coil suitable for export on account of its light weight.

EACH, 3s. 6d. Postage, 6d. extra.
Book describing "How to make Shocking Coils." Post Free 7d.

VOLT AND AMMETER COMBINED.

Mounted on Handsome Polished Wood Stand. All scales are engraved and Silvered, 3½ inch Dial Reading to 6 Volts, 5 Amps or 10 Volts, 10 Amps. VOLT or AMMETER only, 20s.

COMBINED (as illustration), 25s.
Postage, 6d. extra.

MILLIAMPEREMETERS

in 3¼ inch Lacquered Brass Cases, Engraved and Silvered Dial, Central Zero. Stock Reading.

0—5 EACH, 35s.
0—10 Shunt to multiply by 10, 5s. extra.
0—15 8s.
0—20 10s.

MEDICAL ACCESSORIES.

List No.
420. Fine Wire Brush, Electrode (Hair) 14s.
421. " " Hand with Handle 10s.
422. " Massage Roller, covered with Chamois Leather, Single 2½s.
433. " Double 3½s.
434. " Post Plates with Connectors 10s.
564. Pad Electrodes, covered with Leather, 1in. 1½ in. 1½ in. 2½ in. 1½ in. 2½ in.
655. " Sponge 1½s.
656. Handle to screw into above 10s.
661. Wristlet, covered with Chamois Leather 1½s.
662. Comb (as Illustration) 2½s.
663. Strap or Forehead Electrode, Chamois Leather 1½s.
970. Belt Electrode, with two Pads 1s.
971. Coil Regulator, various sizes 1s.
972. Coils Handles 1/ per pair.
973. " 1/ each.

THE E. E. C. "SPAMER" MEDICAL COIL.

Embodying the very Latest Improvement in Medical Coil Design. Mounted in French Polished Mahogany Case, with Lock and Key controlling 10-Way Lever Switch for Current Regulation, Primary and Secondary Terminals, High Grade and Reliable Battery.

All parts Nickel Plated, together with a very complete set of Medical Appliances each 35s.
Postage 6d extra.

WE CARRY LARGE STOCKS AND CAN DESPATCH PROMPTLY.
IMPROVED MAGNETO ELECTRIC MACHINES.

These handsome Magneto Medical Machines are recommended and largely used by members of the Medical Profession as a certain cure for Rheumatism, Gout, &c. Any desired strength of current can be obtained by turning the handle fast or slow. No acid or chemicals are needed. These machines are substantially constructed and will last years with ordinary care.

HIGH-CLASS "E.E.C." BRITISH MADE COILS.

We maintain for High-Class Appearance and Moderate Price these Coils have no equal in London. Consider these points, all of which are embodied in the manufacture of these Coils:

SPECIAL LOW-CURRENT CONSUMPTION. PERFECT INSULATION.
HIGH SPEED (No Sticking). LEAKAGE LOSS NIL.

THIS SHOULD DECIDE

- FACTS -

List No. 45.

Perfect adjustment to the thousandth part of an inch with lock-on on all Trembler Coils. Guaranteed Pure Platinum Contacts. Mounted in Select Polished Teak Cases with hinged lid and Heavy Nickel Plated Fittings. They are the lastest Coil on the market, to say nothing of absolute RELIABILITY. Hot Flaming Spark—Fire through any soaked plug. Measurements given are over all. Any size Coil supplied to order, Trembler or Non-Trembler.

SINGLE CYLINDER COILS.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Size</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>4½ 3½ by 3½ in.</td>
<td>Square Non-Trembler...</td>
<td>14/6</td>
</tr>
<tr>
<td>451</td>
<td>5 5½ by 5½ in.</td>
<td>Square Medium...</td>
<td>17/6</td>
</tr>
<tr>
<td>452</td>
<td>6 6½ by 6½ in.</td>
<td>Large...</td>
<td>20/6</td>
</tr>
</tbody>
</table>

2 CYLINDER COILS.

List No. 456
Square Non-Trembler Coin.
5 by 5½ by 5½ in., each, 33/6.

List No. 456a
Ordinary Pattern Trembler.
5½ by 5½ by 5½ in., each, 22/6.

4 CYLINDER COILS.

List No. 457
High Speed Trembler.
11 by 7½ by 7½ in., each, 44/6.

USE E.E.C. COILS—IT MEANS ANOTHER 5 MILES PER HOUR.
THE ECONOMIC ELECTRIC CO. Economic, Twickenham

MOTOR IGNITION WIRES.

List No. | Number and Size of Wire | INCH | YARD
---|---|---|---
519 | 3/36 S.W.G. | .1 | 56
520 | 4/36 | .3 | 32
521 | 4/34 | .3 | 32

HIGH TENSION FLEXIBLE WIRE

List No. | Number and Size of Wire | INCH | YARD
---|---|---|---
523 | 3/36 S.W.G. | .1 | 56
524 | 4/36 | .3 | 32
525 | 4/34 | .3 | 32
526 | 4/34 | .3 | 32
527 | 4/34 | .3 | 32

Any Length Coil. Postage extra.

SIMPLEX TERMINALS.

Assures good connection of wires to accumulator terminals. Made in two sizes:

- PRICE: 4/3d. doz.
- Per gross, 1/-
- Postage, 1d. extra.
- Brass Terminals, page 77.

ECONOMIC ELECTRIC CO.

TWICKENHAM S.W.

POLE FINDING PAPER

DIRECTIONS

- Pole Finding Paper, 100 sheets, 1d. each.
- Postage, 1d. extra.
- Actual Manufacturer by special process.

HYDROMETERS.

Special design for testing accumulator acid for correct strength. Marked scale corrected strength of acid should read 1'200.

In Tube Case, PRICE, each, 1/.
In Tube Case, Postage 1d. extra.

IGNITION ACCUMULATORS.

In Stout Ebonite Cases, separated with Porcelain Celloid Sheets. Owing to the improved method of separating and raising plates (from bottom of cell), these Accumulators will be found to hold their charge much longer than the ordinary Accumulators.

IGNITION ACCUMULATORS.

EBONITE CASES.

List No. 473

- List No. 474
- List No. 475

MOTOR DUST-PROOF GOGGLES.

(As Illustration)

E.E.C. MOTOR ACCESSORIES GUARANTEED RELIABLE.

ANNUAL SALE OF ACCUMULATORS EXCEEDS 3,000
THE ECONOMIC ELECTRIC CO.

THE AMATEUR'S "O.T." ACCUMULATORS. (LAST SEASON'S SALE OVER 2,000.)

If we published all the testimonials from satisfied Amateurs appreciating this well-known Accumulator, it would go well to make another catalogue. That it is VALUE FOR MONEY, and especially adaptable to Amateurs, is read in almost all the letters. It is manufactured in accordance at our Twickenham Works. We largely advertise it, and for what reason—because we know it to be a SOUND ARTICLE AT A REASONABLE PRICE. It gives 4 Volts, is strongly made in clear Celluloid Case, 4 in. high, 2½ in. wide, 3 in. thick. Weight, 4 oz. Will light a 4-V.T.E. Lamp in 2 hours on one charge. Can be used for Motors, Trams, Spark Cores, Electric-Plating, etc.

"O.T." FOR VALUE.

We wish to make this "O.T." as a Boat Accumulator with Vents & Side 3d. extra above prices. We can supply the "O.T." as a Boat Accumulator with Vents 1½ d. extra on above prices.

Set of Complete PARTS including Celluloid Case, 2 Positive and 2 Negative 3½ by 3½ Plates, Black Sealing Compound, Terminals, Vents, &c. The Set, 1½ d. extra.

GUARANTEED BRITISH MADE "E.E.C." ACCUMULATORS.

Fitted with Non-Splash Vents and Non-Corrosive Terminals. Best Quality English Plates, Celluloid Separators. All Lead Burnt not soldered. Manufactured throughout in our own Factory. You will get satisfaction from every Accumulator. Sizes given are for Cases only. Allow ½ inch for Terminals. We can supply any size or capacity not listed at very MODERATE PRICES.

<table>
<thead>
<tr>
<th>Volt No.</th>
<th>Volts</th>
<th>Actual Amperes</th>
<th>Weight</th>
<th>Plates per Cell</th>
<th>Size of Plates</th>
<th>Height over vents</th>
<th>Length over Terminals</th>
<th>Wide</th>
<th>Price</th>
<th>Classes only</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>2</td>
<td>4</td>
<td>12 ozs.</td>
<td>5</td>
<td>3 by 4 in.</td>
<td>2 in.</td>
<td>4 in.</td>
<td>14 in.</td>
<td>59</td>
<td>9</td>
</tr>
<tr>
<td>1500</td>
<td>2</td>
<td>6</td>
<td>1 lb, 2 ozs.</td>
<td>7</td>
<td>3 by 4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
<td>14 in.</td>
<td>71</td>
<td>13</td>
</tr>
<tr>
<td>1500</td>
<td>2</td>
<td>10</td>
<td>2 lbs, 2 ozs.</td>
<td>7</td>
<td>3 by 4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
<td>14 in.</td>
<td>100</td>
<td>15</td>
</tr>
<tr>
<td>1500</td>
<td>2</td>
<td>14</td>
<td>3 lbs, 2 ozs.</td>
<td>7</td>
<td>3 by 4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
<td>14 in.</td>
<td>109</td>
<td>15</td>
</tr>
<tr>
<td>1500</td>
<td>2</td>
<td>18</td>
<td>4 lbs, 2 ozs.</td>
<td>7</td>
<td>3 by 4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
<td>14 in.</td>
<td>115</td>
<td>15</td>
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<tr>
<td>1500</td>
<td>2</td>
<td>22</td>
<td>5 lbs, 2 ozs.</td>
<td>7</td>
<td>3 by 4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
<td>14 in.</td>
<td>150</td>
<td>15</td>
</tr>
<tr>
<td>1500</td>
<td>2</td>
<td>26</td>
<td>6 lbs, 2 ozs.</td>
<td>7</td>
<td>3 by 4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
<td>14 in.</td>
<td>156</td>
<td>15</td>
</tr>
</tbody>
</table>

THE "E.E.C." BOAT ACCUMULATORS.

REASONABLE PRICES. CAPACITY GUARANTEED.

We are the ACTUAL MANUFACTURERS of this popular type of Boat Accumulator both in Ebonite and Celluloid, supplying direct from our Factory at REASONABLE PRICES FOR CASH. When selecting a SUITABLE ACCUMULATOR for your Boat or Loco, first go carefully into the CAPACITY. You will note we give not only outside dimensions and overall size of cases, but number and size of plates in each cell. We maintain that every "E.E.C. BOAT ACCUMULATOR" is packed with the greatest number of plates it is possible to carry. The Capacities given are ACTUAL AMPS, and not ignition, quoted by some of our competitors, who list an imitation of our Cells. Further, the Plates in "E.E.C." Boat Accumulators have Perforated Corrugated Celluloid Separators which obviate buckling of plates due to external Short Circuits. They have ample clearance at bottoms, are fitted with Non-Splash Vents and our well-known Positive and Negative Plates.

RELIABLE without a doubt and capable of exceptionally heavy discharge, and what is further, carry the E.E.C. guarantee for twelve months.

EBONITE CASES.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Volts</th>
<th>Actual Amperes</th>
<th>Weight</th>
<th>Plates per Cell</th>
<th>Size of Plates</th>
<th>Height over vents</th>
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<td>4 lb.</td>
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<td>4 lb.</td>
<td>14 in.</td>
<td>156</td>
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</table>

CELLULOID CASES.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Volts</th>
<th>Actual Amperes</th>
<th>Weight</th>
<th>Plates per Cell</th>
<th>Size of Plates</th>
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<td>3 lbs, 2 ozs.</td>
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<td>150</td>
</tr>
<tr>
<td>1500</td>
<td>2</td>
<td>26</td>
<td>6 lbs, 2 ozs.</td>
<td>7</td>
<td>3 by 4 in.</td>
<td>4 in.</td>
<td>4 lb.</td>
<td>14 in.</td>
<td>156</td>
</tr>
</tbody>
</table>

NOTE.—Plates per CELL. To find total number of plates in accumulator of course multiply by number of cells, 2 volts per cell.

BUY DIRECT FROM ACTUAL MANUFACTURERS.
STORAGE ACCUMULATORS IN GLASS BOXES.
Manufactured in our own works under careful supervision, these well-known E.E.C. Glass Cells take a high standard for Efficiency, Reliability, and Capacity. They are of the open type so that plates can be removed and the cell cleaned out with minimum amount of trouble. Between each plate is inserted perforated corrugated celluloid. The plates cannot buckle, and External Short Circuit will do little harm. Owing to the improved method of separating and raising plates from below of cell, these Accumulators will be found to hold their charge much longer than the ordinary type. Flint Glass Boxes only used. Specially note New Improved Type of Grade supplied with Lead Nut or Fly Nut Coupling.

2 VOLTS EACH CELL.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Class</th>
<th>Value</th>
<th>Height</th>
<th>Length</th>
<th>Width</th>
<th>No. of Plates</th>
<th>Capacity in Plates</th>
<th>Amp. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>080</td>
<td>4½in.</td>
<td>8½in.</td>
<td>3½in.</td>
<td>3½in.</td>
<td>3½in.</td>
<td>3 by 2½</td>
<td>6</td>
<td>9/6</td>
</tr>
<tr>
<td>091</td>
<td>5in.</td>
<td>7½in.</td>
<td>3½in.</td>
<td>3½in.</td>
<td>3½in.</td>
<td>4 by 2½</td>
<td>6</td>
<td>10/7</td>
</tr>
<tr>
<td>102</td>
<td>6in.</td>
<td>8½in.</td>
<td>4½in.</td>
<td>4½in.</td>
<td>4½in.</td>
<td>4 by 3½</td>
<td>6</td>
<td>11/8</td>
</tr>
<tr>
<td>103</td>
<td>6½in.</td>
<td>9½in.</td>
<td>5½in.</td>
<td>5½in.</td>
<td>5½in.</td>
<td>4 by 4½</td>
<td>6</td>
<td>12/9</td>
</tr>
<tr>
<td>096</td>
<td>5½in.</td>
<td>9½in.</td>
<td>5½in.</td>
<td>5½in.</td>
<td>5½in.</td>
<td>4 by 4½</td>
<td>6</td>
<td>13/10</td>
</tr>
<tr>
<td>097</td>
<td>6in.</td>
<td>10½in.</td>
<td>6in.</td>
<td>6in.</td>
<td>6in.</td>
<td>4 by 5½</td>
<td>6</td>
<td>14/11</td>
</tr>
<tr>
<td>098</td>
<td>7½in.</td>
<td>12in.</td>
<td>6½in.</td>
<td>6½in.</td>
<td>6½in.</td>
<td>4 by 6½</td>
<td>6</td>
<td>15/12</td>
</tr>
</tbody>
</table>

Carriage Forward.

THIS SHOULD BE GOOD ENOUGH.
The Government National Physical Laboratory at Bushy House, Teddington, selected an installation of 250 of the above cells after careful tests.

ACCUMULATOR PLATES READY FORMED.
Prices quoted are for Positive or Negative Plates with lugs. High Class English Plates only supplied.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>087</td>
<td>3½in.</td>
<td>3½in. long by 4½in. wide by 1½thick.</td>
<td>4½in.</td>
<td>3½in. long by 4½in. wide by 1½thick.</td>
<td>4½in.</td>
<td>9/6</td>
<td></td>
</tr>
<tr>
<td>088</td>
<td>4in.</td>
<td>4½in. long by 5½in. wide by 2½thick.</td>
<td>4½in.</td>
<td>4½in. long by 5½in. wide by 2½thick.</td>
<td>4½in.</td>
<td>9/6</td>
<td></td>
</tr>
<tr>
<td>089</td>
<td>4½in.</td>
<td>5½in. long by 6½in. wide by 3thick.</td>
<td>5½in.</td>
<td>5½in. long by 6½in. wide by 3thick.</td>
<td>5½in.</td>
<td>9/6</td>
<td></td>
</tr>
<tr>
<td>090</td>
<td>5in.</td>
<td>6½in. long by 7½in. wide by 4thick.</td>
<td>6½in.</td>
<td>6½in. long by 7½in. wide by 4thick.</td>
<td>6½in.</td>
<td>9/6</td>
<td></td>
</tr>
<tr>
<td>091</td>
<td>5½in.</td>
<td>7½in. long by 8½in. wide by 5thick.</td>
<td>7½in.</td>
<td>7½in. long by 8½in. wide by 5thick.</td>
<td>7½in.</td>
<td>9/6</td>
<td></td>
</tr>
<tr>
<td>092</td>
<td>6in.</td>
<td>8½in. long by 9½in. wide by 6thick.</td>
<td>8½in.</td>
<td>8½in. long by 9½in. wide by 6thick.</td>
<td>8½in.</td>
<td>9/6</td>
<td></td>
</tr>
</tbody>
</table>

Postage extra according to number.

THE "EXCEO" 4-V. CELLULOID POCKET ACCUMULATOR.

SPECIFICATION.

CAPACITY—5 AMP. HOURS AT 4 VOLTS.

PLATES—Size 3 by 1½in. 4 Negatives, 2 Positives.

CASES—Specially reinforced Celluloid Clear.

SEPARATORS—Perforated Corrugated Celluloid.

VENTS—Celluloid Non-Spillable.

TERMINALS—Improved Non-Corrosive.

This cell will light a 4-v., 4-c.p. Metal Filament Lamp 6 hours on one charge or on ignition will do approx. 150 miles. Charging instructions on each Accumulator.

N.B.—If sent fully Charged add 6d. extra.

Size 4½ high, 3½ long, 1½ wide.

4/6 EACH.

Postage 4d. extra.

WE ARE ACTUAL ACCUMULATOR MAKERS, THEREFORE YOU GET LOW PRICES.

THE ECONOMIC ELECTRIC CO.

ACCUMULATOR REPAIRS.
All repairs are done in our own Works under careful supervision at very MODERATE PRICES. We have had considerable experience in this class of work, and customers can rely on our thoroughly good results from repairs executed by us. If at any time you are in doubt whether your cell is worth repairing, forward it to us, carriage paid or by Post. We will examine and give you a LOW QUOTATION for its repair. It is impossible to give detail prices for all makes, but below you will find a list from which you can arrive at a near approximate cost.

Fitting one new Terminal to Pocket Accumulator 9/6
Fitting new Case (plus price of case) 1/8
Fitting new Plates, ask for quotation.

Replacing new Lug and fitting new Terminal to 10, 20, 30 or 40 amp. hr. size 2/6
Repairing Leakage Case 3/6
Replacing inside and cleaning out 3/6
Cleaning out and repainting Terminals 2/6
Fitting Celluloid Case to your Plates, we supplying Non-corrosive Terminals, Non-splash Vents, Separators, &c.—
10 amp. hr., 6½; 20 amp. hr., 6½; 30 amp. hr., 7½; 40 amp. hr. 8/6

THE "ECONOMIC" CHARGING and POLARITY INDICATOR.
One of the most Up-to-Date and Reliable methods for charging Accumulators. The Set weighs only 3 ½ ozs., and can be easily carried, NO ELECTRICAL KNOWLEDGE being necessary.

DIRECTIONS.
Switch off current and remove Electric Lamp from fitting. Place this lamp in holder at one end of Charging Set. Now put adaptor end of Charging Set in fitting from which lamp was originally removed. Connect your Flexible Wires of Charging Set to Accumulator Terminals and switch on light. The small needle in Charging Set should now point to C. Should this not be the case, it is only necessary to reverse the Charging Set in lamp holder.

SPECIAL PRICE. Each, 4/9.
Postage 4d. extra.

66 4/6 EACH.

N.B.—The "Economic" Charging Sets can only be used for direct current circuits.
ADVICE ON ACCUMULATOR CHARGING.

Keep terminals smeared with vaseline: it prevents corrosion. See acid is right strength by Hydrometer, 1.260 specific gravity. Sulphuric acid solution for accumulators, 5 parts water to 1 of acid. Always pour the acid into the water, not water into acid, when mixing solution. Connect positive of accumulator to positive of charging supply. See our charging adapter, it is as well to test supply for polarity before connection is made. Page 67.

All our accumulators are fitted with non-splash vents; these must be removed during charging. When charging from "Fuller" Cells at first only slightly immerse zincs in solution. This will prevent excessive current flowing at the start of charge. Lower zincs to full extent in about 2 hours after.

DON'T FLASH CONNECTIONS TOGETHER to see if cell is charged; use voltmeter or lamp. Cell is charged when gasing freely from negative plate—known as milking.

Don't leave your accumulator for a longer period than four weeks without re-charging. If you do it will sulphate and ruin plates.

NOTICE.

When using Metaline Filament Lamps our Ignition Accumulators will give the following results:

<table>
<thead>
<tr>
<th>Ignition</th>
<th>Capacity</th>
<th>No. of hrs. light, using Metaline Filament Lamp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 amper.</td>
<td>hr.</td>
<td>6 hrs. actual light.</td>
</tr>
<tr>
<td>10</td>
<td>7</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>14</td>
<td>10</td>
<td>13 hrs.</td>
</tr>
<tr>
<td>20</td>
<td>14</td>
<td>19 hrs.</td>
</tr>
<tr>
<td>25</td>
<td>18</td>
<td>13 hrs.</td>
</tr>
<tr>
<td>30</td>
<td>23</td>
<td>23 hrs.</td>
</tr>
</tbody>
</table>

ACCUMULATOR CHARGING.

Night and day our plant is running for this purpose. Every care is taken to see that each accumulator is correctly charged and that it contains acid of the right specific gravity. Pocket Accumulators 4d. each.

<table>
<thead>
<tr>
<th>CAPACITY</th>
<th>EACH.</th>
<th>10 amp.</th>
<th>20 amp.</th>
<th>30 amp.</th>
<th>40 amp.</th>
<th>50 amp.</th>
<th>60 amp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6d.</td>
<td>6d.</td>
<td>9d.</td>
<td>1d.</td>
<td>1d.</td>
<td>1d.</td>
<td>1d.</td>
<td></td>
</tr>
<tr>
<td>Filling with acid and last charge</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td></td>
</tr>
</tbody>
</table>

SPECIAL LINE CHEAP.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>994</td>
<td>3 1/2 x 11 x 4</td>
<td>1 1/2</td>
</tr>
<tr>
<td>995</td>
<td>3 1/2 x 11 x 4</td>
<td>1 1/2</td>
</tr>
<tr>
<td>996</td>
<td>3 1/2 x 11 x 4</td>
<td>1 1/2</td>
</tr>
</tbody>
</table>

PERFORATED CORRUGATED CELLULOID.

For Separators in Cells. Any Size Cut to Order.

4in. x 4in. Medium 2
12in. x 12in. 1/2
4in. x 4in. Thick 3
12in. x 12in. 2 1/2

No. 994 and 996 contain 2 plates per box.

N.B.—Champ Glass Jars, 41 high, 1 1/2 x 11. EACH 3d.

ROOF LIGHT:

FITTINGS.

Complete with 4, 8, or 10 Volt Lamp, Spring Contacts. Powerful Nickel plated Pampoline Reflectors. Plates at 2/3d. Mounted on handsome mahogany base. Suitable for Motor Interior Lighting, etc.

List No. 988 (as Illustration). EACH 8d.

Postage 5d. extra.

List No. 999. Similar design to List No. 988, but for recessing flush into roof.

EACH 8d. Postage 5d. extra.

Note: We can quote special prices for High class Interior Fittings, Leaves, etc.

EACH 5. List No. 990.

With 4 volt Lamp.

SPECIAL MINIATURE 4 VOLT. HAND LAMP.

With Flexible Wires suitable for Examination of Motor when on pit.

68 COLONIAL ORDERS RECEIVE PROMPT AND SPECIAL ATTENTION.

HIGH-CLASS VOLT AND AMMETERS (OUR SPECIALITY).

One of the most Accurate and Reliable Small Meters on the Market. An Electro-Magnetic Instrument of Soft-Iron Type, in Solid Metal Case, Nickel Plated and Polished in Large Sizes. The construction of the Instrument is substantial and of a thoroughly reliable design. As a Purchaser you have this advantage: We have listed and sold hundreds of these meters for over three years and, with confidence, recommend them to our best customers. For this Voltmeter we claim a very Small Current Consumption. In fact the efficiency for both Volt and Ammeter is exceedingly high. These Meters read correctly in any position, are unaffected by dampness, and can be left continuously in circuit.

VOLTMETERS.

<table>
<thead>
<tr>
<th>List No. 67</th>
<th>List No. 68</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A.</td>
<td>Type B.</td>
</tr>
<tr>
<td>Dials, 23 inches.</td>
<td>Dials, 3 inches.</td>
</tr>
<tr>
<td>Back Flange, 33 inches.</td>
<td>Back Flange, 44 inches.</td>
</tr>
</tbody>
</table>

AMMETERS.

<table>
<thead>
<tr>
<th>List No. 220</th>
<th>List No. 221</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A.</td>
<td>Type B.</td>
</tr>
<tr>
<td>Dials, 23 inches.</td>
<td>Dials, 3 inches.</td>
</tr>
<tr>
<td>Back Flange, 33 inches.</td>
<td>Back Flange, 44 inches.</td>
</tr>
</tbody>
</table>

NOTE.

We have Larger Patterns, Mercury, Dial, Flange, Sizes for Application.

Mr. Cyril Chilton writes: "I am very pleased with the 0-25 Voltmeter I got from you on the 29th inst. It has been in circuit continuously, does not over-warm and uses very little current.—Bournmouth, Haiti."

Satisfaction!

Mr. F. P. Nicoll, of Dundee: "I received Accumulator and Voltmeter safely and am delighted with them both."—Draw your own Conclusions. Originals can be seen.

POCKET VOLT & AMMETERS.

Solid Metal Case, Nickel Plated Spring Back, Hand Crowned for Pressing (Watch Pattern), Solid Flexible Cords close into Case after using. Guaranteed Accurate and Reliable, and read in any position.

VOLTMETERS, AMMETERS.

List No. 67. Each List No. 220. Each

<table>
<thead>
<tr>
<th>0-5 Volts</th>
<th>0-6 Volts</th>
<th>0-6 Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.2</td>
<td>6.2</td>
<td>6.2</td>
</tr>
<tr>
<td>6.8</td>
<td>6.8</td>
<td>6.8</td>
</tr>
<tr>
<td>9.6</td>
<td>9.6</td>
<td>9.6</td>
</tr>
<tr>
<td>10.0</td>
<td>10.0</td>
<td>10.0</td>
</tr>
<tr>
<td>12.0</td>
<td>12.0</td>
<td>12.0</td>
</tr>
</tbody>
</table>

COMBINED VOLT AND AMMETER.

As Illustration.

List No. 221. Each Pocket Meter is supplied in Case. List No. 220.
THE "E.E.C." LIGHTING OR CHARGING BOARDS.

Being actual manufacturers we are in a position to quote you special low prices for any description or size of board. These boards are completely wired and ready to connect direct to Dynamo or Supply Mains. Made for any Voltage.

Any Board Fitted To Order.

List No. 1627.

1000 Small Handy Board, comprising Single Pole Tumbler Switch, Positive and Negative Charging Terminals, Mounted on Polished Base. Book of Polishing Paper, 6ft. Flexible Wire with Adaptor ready to connect to the ordinary Lampholders.

Each 3/6. Postage 4d.


To fit No. 1001 remove the ordinary Tumbler Switch from wall, connect up and replace with this switch. You can now at any time connect your accumulator to the terminals and charge through the light that is used for illuminating the house at no extra cost.

2/8. — We can fit 1901 with Ammeter reading 0-6 amps. at 8/- extra.

1002 Charging or Lighting Board, fitted with 0-15 Voltmeter, 0-6 Ammeter, 6 amp. Tumbler Switch, Fuse, Dynamo and Charging Terminals, suit 1 H.P. set.

Complete Board 19/6. Postage 16d. extra.

1003 Similar to No. 1002 but fitted with 3 amp. 6-way Regulating Switch.

Complete Board 21/6. Postage 17d. extra.

1004 Charging or Lighting Board, fitted with 0-25 Voltmeter, 0-10 Ammeter, 15 amp. Tumbler Main Switch, Fuse, Dynamo and Charging Terminals.

Complete Board 24/6. Postage 1/10d. extra.

1005 Similar to No. 1004 but fitted with 10 amp. 6-way Regulating Switch.

Complete Board 34/6. Carriage forward.

1006 Useful Main Charging Board for Motor Garage, Workshop, &c., fitted with meters (any reading supplied at slight extra cost; write for quotation), 0-13 Voltmeter, 0-6 Amps., Batten Lampholders, 2 Lamps, 8 amp. Tumbler Switch, Charge and Main Terminals, similar to Illustration.

Complete Board 28/. Carriage forward.

1007 As No. 1006 and similar to Illustration, fitted with 0-25 Voltmeter, 6amp. Ammeter, 4 Batten Lampholders and 4 Lamps, 8 amp. Tumbler Switch, Terminals, &c.

Complete Board 33/6. Carriage forward.

Note: All Charging Boards fitted with this reliable type of meter.

List No. 520.

For receiving the Electric Aerial Undulations with Hand De-Cohérer, adjustable Receiving Arms, mounted on handsome Polished Base. Complete with filings. The performance of this Cohérer is perfectly correct and faultless.

Each, 6/-. Postage 4d. extra.

WIRELESS BELL.

List No. 555.

For experimenting with Wireless apparatus.


OIL-BREAK TRANSMITTER.

List No. 552.


E.E.C.: WIRELESS APPARATUS FOR EXPERIMENTAL WORK.

EXPERIMENTAL WIRELESS TELEGRAPHY.

After listing and giving these Sets exhaustive trials over two years, we can thoroughly recommend them to any Amateur. The prices quoted are moderate. The Sets are strongly constructed and easily worked by any Amateur with ORDINARY ELECTRICAL KNOWLEDGE. If you already possess a Wimshurst Machine or Spark Coil a set of Wireless will make your instrument doubly interesting and instructive.

TRANSmitTER.

Small Aerial Transmitter, with adjustable Transmitting Arms and Spark Discharge. Suitable for apparatus up to 40 in. spark. Finished in Old Gold.

List No. 550.

Price, 4/-.

Postage, 4d. extra.

COHERER.

List No. 551.

Special design. Very sensitive on short distance.

List No. 553.

Each, 9/.

List No. 554.

More sensitive than No. 553; works on minimum current. Suitable for larger sets. Each, 10/6.

RELAY.

List No. 555.

For experimenting with Wireless apparatus.


RESISTANCE COIL.

200 ohms.

List No. 557.

Each, 1/10d. Postage 2d. extra.

TAPPING KEY.

Well finished.

List No. 556.

Each, 2/6. Postage 2d. extra.
COMPLETE WIRELESS SETS. THE "AMATEUR'S."

This Complete Set is specially listed and adapted for Amateurs. If carefully connected up according to the diagrams and printed instructions supplied with each set, we guarantee the customer will obtain satisfactory results. Distance covered by this apparatus, from one room to another, approx. 5 yards.

The "AMATEUR’S" WIRELESS SET complete, as illustration, consists of one Transmitter, one Coherer, one Powerful Spark Coil, one Tapping Key, two E.E.C. Dry Batteries, one Bell and Connecting Wires with printed instructions and diagrams. List No. 559.

Price of Complete Set 52/6.

Postage 1/ extra.

POWERFUL TRANSMITTER.

List No. 560. Complete Wireless Transmitter, consisting of powerful 4m. Spark Coil, Tapping Key, Adjustable Transmitter Condenser, etc. The whole mounted on Handsome Polished Real Teak Base and connected up ready for working without No. 561 Wireless Receiver.

EACH (as illustration) 19/6

List No. 561.

RECEIVER SET.

Adapted to work with our No. 560 Transmitter, consisting of one Automatically De-Cohered Coherer, Bell, Sensitive Relay (Platinum-Tipped), 3 pair Terminals, Resistance Coil, etc., all connected ready for receiving together with full printed instructions and diagrams.

List No. 561. EACH 3/1

Postage 1/ extra.

Book on "Wireless," 1/ each.

Without Commutator.

<table>
<thead>
<tr>
<th>No. of Spark</th>
<th>Length</th>
<th>Each</th>
<th>Postage</th>
</tr>
</thead>
<tbody>
<tr>
<td>260</td>
<td>4½</td>
<td>6</td>
<td>1/5</td>
</tr>
<tr>
<td>261</td>
<td>3½</td>
<td>10</td>
<td>2/10</td>
</tr>
<tr>
<td>262</td>
<td>3</td>
<td>13</td>
<td>2 ½</td>
</tr>
<tr>
<td>263</td>
<td>6½</td>
<td>8</td>
<td>3 ½</td>
</tr>
<tr>
<td>264</td>
<td>10</td>
<td>6</td>
<td>5 ½</td>
</tr>
<tr>
<td>265</td>
<td>10½</td>
<td>7</td>
<td>6 ½</td>
</tr>
</tbody>
</table>

With Commutator.

List No. 562. Complete Wireless Receiver, consisting of powerful 4m. Spark Coil, Tapping Key, Adjustable Transmitter Condenser, etc. The whole mounted on Handsome Polished Real Teak Base and connected up ready for working without No. 560 Wireless Transmitter.

EACH (as illustration) 19/6

List No. 563.

GEISLER TUBES.

We carry a large stock, and can supply promptly all sizes and designs.

List No. 564.

Geisler Tube Rotators.

Specially designed for High Speed. These Geisler Tube Rotators can be used for Exhibition at Evening Parties or in the Home. They are very popular and effective.

Motor Driven.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Postage</th>
</tr>
</thead>
<tbody>
<tr>
<td>366</td>
<td>3½” up to 5”</td>
<td>2</td>
<td>1/5</td>
</tr>
<tr>
<td>367</td>
<td>5½” up to 6”</td>
<td>2</td>
<td>1/5</td>
</tr>
<tr>
<td>368</td>
<td>6½” &amp; 7”</td>
<td>2</td>
<td>1 ½</td>
</tr>
</tbody>
</table>

Hand Driven.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Postage</th>
</tr>
</thead>
<tbody>
<tr>
<td>369</td>
<td>4½” up to 5”</td>
<td>2</td>
<td>1/5</td>
</tr>
<tr>
<td>370</td>
<td>5½” &amp; 6”</td>
<td>2</td>
<td>1 ½</td>
</tr>
</tbody>
</table>

Postage 1/ each extra.

By means of a special adjustment any tube can be driven with the same speed as the hand-driven ones.

osophy of a special adjustment any tube can be driven with the same speed as the hand-driven ones.

We have twelve years' reputation for value.
HIGH-CLASS WIMSHURST MACHINES.

From RESULTS we have personally obtained from these High-Class Machines we do not hesitate to recommend them to our customers. Special Improvements have been introduced whereby the Machines can be used in conjunction with our Wireless Telegraphy or X Ray Apparatus. All machines despachted from our Twickenham Works are thoroughly tested, and guaranteed reliable. Each Wimshurst is supplied with Best quality Polished Ebonite Plates, carefully Sected, two Brushing Rods, two Leyden Jars, all metal works heavily Nickel Plated, mounted on Massive Base. The Machines bear a very hame and effective appearance.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Plate Size</th>
<th>Length of Spark</th>
<th>Each</th>
<th>Carriage</th>
</tr>
</thead>
<tbody>
<tr>
<td>610</td>
<td>7 inch</td>
<td>2 to 3 inch</td>
<td>19/6</td>
<td>/</td>
</tr>
<tr>
<td>611</td>
<td>6</td>
<td>3</td>
<td>28</td>
<td>/</td>
</tr>
<tr>
<td>621</td>
<td>5 1/2</td>
<td>6</td>
<td>40</td>
<td>/</td>
</tr>
<tr>
<td>621A</td>
<td>5</td>
<td>6</td>
<td>50</td>
<td>/</td>
</tr>
<tr>
<td>621B</td>
<td>6</td>
<td>7</td>
<td>50</td>
<td>/</td>
</tr>
</tbody>
</table>

DON'T BE MISLED.

Some manufacturers list their machines to give the impression of being spark, whereas on testing we have found approx. 15, to be the maximum.

WE GUARANTEE that all our machines will give the length of spark as stated only.

OPINIONS.

Dr. H. B. S. McDonald, from Co. Down, Ireland — "A great Wimshurst, obtained with other articles a fortnight ago, has given very good satisfaction." Mr. Henry Rose, of Dundee, writes — "Received materials and Wimshurst in good condition, Wimshurst works very well."

EBONITE WIMSHURST PLATES.

Best quality Polished Ebonite Plates, manufactured from 4 material, Sectioned & Varnished. Tin. Centre Hole, guaranteed true and well balanced.

List No. Size Each Postage Each Postage
664 7 in. 60/6 10/6
665 8 in. 70/6 10/6
666 9 in. 80/6 10/6
667 10 in. 90/6 10/6

Special Packing 6 per pair, Carriage Forward. These plates are cut from stout 25 oz. Glass Sheet, guaranteed Balanced and perfectly true.

LEYDEN JARS.

We hold a large stock of Leyden Jars in various sizes and shapes and can execute all orders promptly.

List No. approx. size and plate, 100/6 1002 1 1/2 1002 1 1/2 1002 1 1/2 1002 1 1/2

We are in a position to quote low prices for larger sizes. Send us your enquiry.

ELECTROSCOPES.

Gold Leaf 1 plate size (as Illustration).
Each 21/2, Postage 1/2.

Fifth Ball Type. Each 1/6, Postage 1/2.

Glass Jars or Tubes. We can quote you Low Prices.

E.E.C. WIMSHURST WILL DO ALL WE SAY—AND MORE.

APPLIATUS FOR STATIC EXPERIMENTS.

For use with Wimshurst Machines or Induction Coils. See our Book "Static Experiments," Pape Free 7/.

List No. | Size | Centre Hole | Thickness | Each |
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>623</td>
<td>10 in.</td>
<td>1 in.</td>
<td>6.32 in.</td>
<td>1/2</td>
</tr>
<tr>
<td>624</td>
<td>12</td>
<td>1</td>
<td>8.15</td>
<td>2/3</td>
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<tr>
<td>625</td>
<td>14</td>
<td>2</td>
<td>9.74</td>
<td>3/4</td>
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<tr>
<td>626</td>
<td>16</td>
<td>3</td>
<td>11.03</td>
<td>4/5</td>
</tr>
<tr>
<td>627</td>
<td>18</td>
<td>4</td>
<td>11.36</td>
<td>5/6</td>
</tr>
<tr>
<td>628</td>
<td>20</td>
<td>5</td>
<td>11.6</td>
<td>6/7</td>
</tr>
</tbody>
</table>

Special Packing 8 per pair, Carriage Forward. These plates are cut from stout 25 oz. Glass Sheet, guaranteed Balanced and perfectly true.

YOU KNOW

we have reduced all our stampings prices. See pages 38 and 39. First Rate Battery Set for Spark Coils, see page 20.

BRASS BALLS.

1 1/4 1 1/2 1 3/4 2 in. 1 1/2 2 in. each.

Postage Extra on all above prices.

GEISLER TUBES (LATEST). Containing Flowers, Butterflies, etc. Very effective for exhibitin, can be lighted from our 6 in. Spark Coll.

List No. 044.

Each 4/6. Postage 6d.

We hold a record selection of Tubes. If possible give us a call. See page 73.

X RAYS.

X Rays are now commonly used for numerous Medical Purposes, but for the Amature there is not a set of Apparatus on the market which he can easily afford. We introduce a set which if used with our No. 610 Wimshurst Machine or Induction Coift will be found both Practical and MODERATE IN PRICE. It will enable you to produce a genuine X Ray photograph in five min., by means of the Screen to view objects in the hand and various other interesting studies.


List No. 228. Rontgen Tube only 1/ extra.

List No. 227. Standard Flourescope Screen, Each 19/6, Postage 6d. extra.

Book "X Rays simply explained," post free 1/3.

Above two books can be thoroughly recommended.

List No. 611. For use with Wimshurst Machines, 5 in. to 8 in. Spark. Each 15/.

List No. 612. For use with Spark Coll, 5 in. to 6 in. Spark (Jackson Pattern) 10/6. Postage 6d. extra.

Mr. Jackson, of Polkestone, writes:—"Received X Ray Tube safely. Have tested it and obtained an excellent Photograph."
G.P.O. MORSE TELEGRAPH INSTRUMENTS.

These Learners' Outfits will be found extremely useful to those who propose making Telegraphy a profession. The Instruments are carefully adjusted and designed with the special intention to provide a substantial and practical G.P.O. instrument for Learners about to enter the Service.

G.P.O. MORSE SOUNDER.

All metal parts Lacquered and Polished. Coils wound with Best Quality Silk Covered Wire. Brushed in Polished Ebony Bobbins. All parts are substantially made and eminently suitable for practical use. We can thoroughly recommend as a high-class reliable instrument. List No. 635.

Postage 6d. extra.

MORSE TAPPERS or KEYS.

MORSE SOUNDER OUTFIT.

Comprising one Morse Sounder, G.P.O. Pattern, one 625 Tapper, one K.G.O. Dry Cell (Improved type for heavy work), Silk Flexible Wires, together with diagrams of connections.

Complete Set 14d. Postage 1d. extra.

Usually this set is 21d. Among actual manufacturers we can quote very low prices.

MORSE DOT AND DASH RECORDERS.

Morse Dot and Dash Recorders: 

- List No. 625.
- Each: 5d.
- 2 d.
- (as illustration): 76

Note:

We can quote moderate prices for all instrument work. Send us your enquiries.

THE "AMATEUR'S" ELECTRIC ENGRAVER.

A Handy little Instrument capable of good work. With ordinary care any amateur can acquire facility and speed. Price 5f. each.

Postage 7d. extra. Works on 4 volts easily.

THE "E.E.C." ELECTRIC ENGRAVER.

The Illustration from a photograph of our Engraver shows details of its construction. It is finished throughout in High-Class style for professional masters. It is one of the very few Class of Jewellers' work. Solid Brass Case and Stand, Grained and Old Gold Lacquered, Platinum Points (guaranteed).

List No. 65.
- 553 COMPLETE with Spring Stand (as illustration) 9f.
- 553 ENGRAVER only 2f.
- 554 Set of 3 Large Cells for working the Set 2f.

Postage on complete set, 10d. extra; engraver, 6d. extra; cells, 1d. extra.

 Impossible to get out of order. Easy to manipulate. It opens up New Business for Jewellers, etc.

76 SUBSTANTIAL ENGRAVERS BUILT FOR USEFUL WORK.

BRASS TERMINALS.

These Terminals are of our own STANDARD SIZES, well finished and polished, for Bells, Telegraphs, Medical Wires, Coils and all electrical instruments.

N.B.—Illustrations are approximately full size. All terminals are supplied with back nuts or screws except T 5. Remember in most sizes we are actual manufacturers.

List No. Each, D. O.
- 0 T 2 1/3
- 0 T 2 1/3
- 3 1/3
- 3 1/3
- 4 1/3
- 4 1/3
- 5 1/3
- 5 1/3
- 6 1/3
- 6 1/3
- 7 1/3
- 7 1/3
- 8 1/3
- 8 1/3
- 9 1/3
- 9 1/3
- 10 1/3
- 10 1/3
- 11 1/3
- 11 1/3
- 12 1/3
- 12 1/3
- 13 1/3
- 13 1/3
- 14 1/3
- 14 1/3
- 15 1/3
- 15 1/3
- 16 1/3
- 16 1/3
- 17 1/3
- 17 1/3
- 18 1/3
- 18 1/3
- 19 1/3
- 19 1/3
- 20 1/3
- 20 1/3
- 21 1/3
- 21 1/3
- 22 1/3
- 22 1/3

Postage extra.

CARBON CLAMPS.

T 10 in. J. A. 4d.
- 1/4 5d.
- 1/2 6d.
- 1/2 7d.
- 1/2 8d.

Postage extra.

Any Terminals heavily Nickel Plated and Polished, 1d. extra.

Lots of a dozen, send Post Free. Terminals Lacquered, 4d. each, not less than 1 doz. per each, post free.

For large quantities, our offer 1 gross, we can give you special quotation.

Note:

If you want some special article and you are not as yet listed, write us! Without a doubt we shall meet your requirements at a reasonable price.

77
SILK AND COTTON COVERED INSTRUMENT WIRES.

We hold a Large Stock of Instrument, Resistance and other Wires, and do a big business: it therefore follows we are in a position to quote you LOW PRICES. The Wires are Manufactured in London from the Best Possible Materials. Conductivity, 99 per cent. Insulation, whether Cotton or Silk, is even wound, CAUTION:—In winding a Dreams, Meter, or other Electrical Apparatus its working depends on your receiving the CORRECT GAUGE Wires. All Wires sent out by us are Guaranteed and Stamped Correct Gauge. A Mistake is Impossible by this System.

<table>
<thead>
<tr>
<th>Standard Wire Cover</th>
<th>Appearance &amp; Yarns</th>
<th>Single Silk Covered</th>
<th>Double Silk Covered</th>
<th>Single Cotton Covered</th>
<th>Double Cotton Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>16/00</td>
<td>1/4</td>
<td>1/8</td>
<td>1/4</td>
<td>1/8</td>
<td>1/8</td>
</tr>
<tr>
<td>18/00</td>
<td>1/6</td>
<td>1/8</td>
<td>2/4</td>
<td>2/4</td>
<td>2/4</td>
</tr>
<tr>
<td>20/00</td>
<td>1/8</td>
<td>1/8</td>
<td>2/4</td>
<td>2/4</td>
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<td>1/12</td>
<td>1/8</td>
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<td>26/00</td>
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<td>34/00</td>
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<td>2/4</td>
<td>2/4</td>
<td>2/4</td>
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</tbody>
</table>

TWIN WIRES.

Two wires, different colours, lapped together, DOUBLE COTTON COVERED, tinned and paraffined waxed...

<table>
<thead>
<tr>
<th>List No</th>
<th>Size</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>665</td>
<td>22</td>
<td>DOUBLE COTTON COVERED and paraffined waxed...</td>
</tr>
<tr>
<td>667</td>
<td>20</td>
<td>DOUBLE COTTON COVERED and paraffined waxed...</td>
</tr>
<tr>
<td>668</td>
<td>20</td>
<td>INDIA RUBBER COVERED, double cotton covered, tinned &amp; paraffined waxed...</td>
</tr>
<tr>
<td>669</td>
<td>20</td>
<td>INDIA RUBBER COVERED, double cotton covered, tinned &amp; paraffined waxed...</td>
</tr>
<tr>
<td>670</td>
<td>18</td>
<td>INDIA RUBBER COVERED, double cotton covered, tinned &amp; paraffined waxed...</td>
</tr>
</tbody>
</table>

TWIN WIRES.

TWIN WIRES.

<table>
<thead>
<tr>
<th>List No</th>
<th>Size</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>665</td>
<td>22</td>
<td>DOUBLE COTTON COVERED and paraffined waxed...</td>
</tr>
<tr>
<td>667</td>
<td>20</td>
<td>DOUBLE COTTON COVERED and paraffined waxed...</td>
</tr>
<tr>
<td>668</td>
<td>20</td>
<td>INDIA RUBBER COVERED, double cotton covered, tinned &amp; paraffined waxed...</td>
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<tr>
<td>669</td>
<td>20</td>
<td>INDIA RUBBER COVERED, double cotton covered, tinned &amp; paraffined waxed...</td>
</tr>
<tr>
<td>670</td>
<td>18</td>
<td>INDIA RUBBER COVERED, double cotton covered, tinned &amp; paraffined waxed...</td>
</tr>
</tbody>
</table>

German Silver Wires. Silk or Cotton Covered, DOUBLE ABOVE PRICES.

S. W. Gauge | Hard Steel Wire | Pure Tinned Wire | Galvanized Iron Wire | Plating of Iron Wire | German Silver Wire | Tinned Copper Wire |
<table>
<thead>
<tr>
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<td>10—16</td>
<td>2×10</td>
<td>3×11</td>
<td>6×1</td>
<td>6×1</td>
<td>2×7</td>
<td>1×8</td>
</tr>
<tr>
<td>18</td>
<td>2×10</td>
<td>3×11</td>
<td>6×1</td>
<td>6×1</td>
<td>2×7</td>
<td>1×8</td>
</tr>
<tr>
<td>20</td>
<td>2×10</td>
<td>3×11</td>
<td>6×1</td>
<td>6×1</td>
<td>2×7</td>
<td>1×8</td>
</tr>
<tr>
<td>22</td>
<td>3×11</td>
<td>3×11</td>
<td>6×1</td>
<td>6×1</td>
<td>2×7</td>
<td>1×8</td>
</tr>
<tr>
<td>24</td>
<td>3×11</td>
<td>3×11</td>
<td>6×1</td>
<td>6×1</td>
<td>2×7</td>
<td>1×8</td>
</tr>
<tr>
<td>26</td>
<td>3×11</td>
<td>3×11</td>
<td>6×1</td>
<td>6×1</td>
<td>2×7</td>
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<td>3×11</td>
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<td>6×1</td>
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<td>1×8</td>
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<tr>
<td>32</td>
<td>3×11</td>
<td>3×11</td>
<td>6×1</td>
<td>6×1</td>
<td>2×7</td>
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<td>3×11</td>
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<td>6×1</td>
<td>2×7</td>
<td>1×8</td>
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<tr>
<td>36</td>
<td>3×11</td>
<td>3×11</td>
<td>6×1</td>
<td>6×1</td>
<td>2×7</td>
<td>1×8</td>
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WIRE GAUGES.

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Platinum</th>
<th>German Silver</th>
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<tbody>
<tr>
<td>18</td>
<td>4952 ohms</td>
<td>2907 ohms</td>
</tr>
<tr>
<td>20</td>
<td>4946</td>
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<td>4932</td>
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<td>2885</td>
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<td>2876</td>
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<tr>
<td>38</td>
<td>4820</td>
<td>2873</td>
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<tr>
<td>40</td>
<td>4806</td>
<td>2870</td>
</tr>
</tbody>
</table>

We Stock Flexible Wires in Standard Colours—Blue, Olive Green, Maroon, Light and Dark Blue, &c.

SILK FLEXIBLE BELL WIRES.

<table>
<thead>
<tr>
<th>List No</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>660</td>
<td>Medium Twin Wires, Silk covered...</td>
<td></td>
</tr>
<tr>
<td>661</td>
<td>Thick  Twin Wires, Silk covered...</td>
<td></td>
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</table>

ELECTRIC LIGHT FLEXIBLE WIRES.

<table>
<thead>
<tr>
<th>List No</th>
<th>Quality</th>
<th>PURE RUBBER INSULATION</th>
<th>VULCANIZED INSULATION</th>
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</thead>
<tbody>
<tr>
<td>664</td>
<td>Cotton</td>
<td>60 x 12 yards</td>
<td>60 x 12 yards</td>
</tr>
<tr>
<td>665</td>
<td>Silk</td>
<td>60 x 12 yards</td>
<td>60 x 12 yards</td>
</tr>
</tbody>
</table>

"E.E.C." GENUINE! NO FOREIGN MADE WIRES.
THE ECONOMIC ELECTRIC CO.

Telephone—316 P.O. Richmond
Telegrams—Economic, Twickenham

ELECTRIC LIGHT and POWER WIRES and CABLES.

Specification—High Conductivity Copper Wire, Insulated with Pure Rubber or Vulcanized India Rubber and Taped.

NOTE

REduced

prices.

CLASS A.—300 Megohm Grade.—Tinned Copper Wires 100%, Conductivity Insulated with Pure Rubber and Vulcanized, protected by Braided Covering, the whole compound.

CLASS B.—600 Megohm Grade.—Similar to above, but with much higher Insulation Resistance (recommended).

<table>
<thead>
<tr>
<th>Size, S.W.G.</th>
<th>Current Carrying Capacity, I.E.E. Standard.</th>
<th>CLASS A.</th>
<th>CLASS B.</th>
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</thead>
<tbody>
<tr>
<td>1/20</td>
<td>10 amperes.</td>
<td>27</td>
<td>71</td>
</tr>
<tr>
<td>1/16</td>
<td>17</td>
<td>8/3</td>
<td>15/6</td>
</tr>
<tr>
<td>1/8</td>
<td>1142</td>
<td>9/3</td>
<td>17/6</td>
</tr>
<tr>
<td>3/32</td>
<td>19</td>
<td>10/6</td>
<td>20/</td>
</tr>
<tr>
<td>3/16</td>
<td>20/6</td>
<td>19/6</td>
<td>20/6</td>
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<td>3/8</td>
<td>20/8</td>
<td>20/8</td>
<td>5/1</td>
</tr>
<tr>
<td>7/16</td>
<td>23</td>
<td>50/</td>
<td>85/6</td>
</tr>
</tbody>
</table>

BALL FITTINGS.

Polished Brass and Lacquered, Long or Short Arms.
List No. 728. 2 Light Short Stem .... ... 1/4 1/4
729. 3 (as illustration) .... ... 1/5 1/6
730. 4 .... ... 1/7 1/8
731. 5 .... ... 1/9 20
Postage extra.
All above fitted with Cord Grip and Shade Carrier.

SPIDER FITTINGS.

List No. 1708.
708. 2 Light ........ 2/2
709. 3 (as illustration) .... 2/3
1710. 4 Light ........ 2/8
1711. 5 .... 2/10
Postage 6d. extra.

The "MIDGET" ARC LAMPS.

For Continuous Current only, with Self Contained Resistance. English Made Arc Lamp consuming 11/4 to 2 amps. for burning 16 to 25 hours.
Complete with Lamp, Globe and Reflector (as illustration).
List No. 1704.
704. For Parallel on 50 to 120 Volts .... £2
1705. Two in Series on 200 to 350 Volts £2 5s.
Carriage Forward.

CARDONS (Round). For Midget Arcs.

List No. 729.
729. Solid per 100 .... 5/6
1709. Cored .... 6/6
Carriage Forward.

SPARE GLOBES

For Midget Arcs ... each 1/ Weather Hoods to protect Lamp in exposed positions. Each 83.

ALTERNATING LAMPS

AllVoltages, write for REASONABLE QUOTATION.

LARGER ARCS OR PROJECTORS—WRITE FOR QUOTATION.

"E.E.C." INCANDESCENT ELECTRIC LAMPS.

One of the Best and most Reliable on the market. Illustration approximately full size.
LONG LIFE—about 1,000 to 1,500 hours.

NOTE. SPECIAL PRICES.

EVERY LAMP GUARANTEED.

List No. 1709.
709. 2 Light .... 2/2
1710. 4 Light .... 2/8
1711. 5 .... 2/10
Postage 6d. extra.

N.B.—If required fitted with Lamp Holders, small or large, i.e., 1 or 4, add 6d. per lamp.

"TANTALUM" METAL FILAMENT LAMPS.

A Lamp that we can thoroughly recommend. It will burn in any position from direct or alternating current mains. Its chief claim is EFFICIENCY, 4.7 Watts Guaranteed per British Candle Power, or about 50 per cent. less current than the ordinary Carbon Lamp for same amount of Light.
50 to 100 volts ...... £2.50 Each 20.
150 to 250 volts ...... Each 8d.
For circuits over 120 volts use two Lamps in series. When ordering state what voltage circuit the Lamps are required to burn on.

Sun Pattern.
1/4 extra.

GIVE THAT "TANTALUM" A TRIAL—IT'S SOUND VALUE.

Standard Pattern.
THE ECONOMIC ELECTRIC CO. Contractors to H.M. Government. TWICKENHAM, LONDON, S.W.

WALL PLUGS.

List No. Each
720 Two Pin Plug, complete 1.3
721 Ditto, Miniature 1.6
722 Concentric Plug 1.8
723 Spares Plug 1.5
724a Miniature Two Pin Plug 1.5

ADAPTORS.

For plugging into ordinary lampholders. We also supply in 1" sizes for miniature lampholders; Postage 1d. extra.

List No. Each
718 1" Miniature 6
719 1" Ordinary 6

POLISHED WOOD BLOCKS.

Well Seasoned.
In real selected woods, Teak, Walnut, Mahogany, &c., Dove-tailed Edges, Recessed Backs, Rounded Corners, Jewelled Edges.
(Highly Polished.)

List No. 718.

ROUND BLOCKS.

List No. 719.

SQUARE.

List No. Each
735 3 in. x 3 in. 6
736 3 1/4 in. x 3 1/4 in. 7
737 3 1/2 in. x 3 1/2 in. 8
738 3 3/8 in. x 3 3/8 in. 9
739 3 3/4 in. x 3 3/4 in. 10

OBLONG.

List No. Each
740 3 in. x 3 in. 6
741 3 1/4 in. x 3 1/4 in. 7
742 3 1/2 in. x 3 1/2 in. 8
743 3 3/8 in. x 3 3/8 in. 9
744 3 3/4 in. x 3 3/4 in. 10

Postage according to weight.

PLAIN SOLID BRASS BRACKETS.

Laquersed Old Gold, Well Finished and Polished.
List No. 1003.

Plain 10 in. 6
6 in. 4
4 in. 7
To fit miniature or large holders. Postage extra.

BACK PLATES.

HAND LAMPS.

Brass Wire Guard, Black Enamelled.
List No. 669.

Each 4
1/8 with 1/4 thread 6
3/16 with 1/4 thread 8
Suitable for miniature or half-sized holders.


WORKSHOP TOOLS (BEST QUALITY).

Two Hole Pliers.

List No. 743.

Cheap Quality.
4 in. each 3
6 in. each 6
8 in. each 9

List No. 744.

Best Quality.
4 in. each 10
6 in. each 12
8 in. each 14

List No. 745.

Preferences.
4 in. each 17
6 in. each 19
8 in. each 21

Postage 2d. extra.

BOX WORKER.

List No. 746.

Cheap Quality.
7 in. each 4

List No. 747.

Best Quality.
7 in. each 10

Postage 2d. extra.

Combination Pliers.

Insected Steel Cutters.
Practical & useful Tool.

List No. 748.

Cheap Quality.
8 in. each 10

List No. 749.

Best Quality.
8 in. each 20

Postage 2d. extra.

BRADAWLS.

Polished Beech Handles.
Each 1d.

GAS Pliers.

List No. 1033.

Best Quality.
Polished Blades, Cost 6d.
Length 6, 7, 8, 9, 10, 11, 12, 13, 14 in.
Width 6, 7, 8, 9, 10, 11, 12, 14, 20, 24, 30, 36 in.
Each 1/6, 1/6, 1/6, 1/6, 1/6, 1/6, 1/6, 1/6, 1/6, 1/6, 1/6, 1/6, 1/6, 1/6.
Postage extra.

STRAIGHT PLIERS.

List No. 1034.

Each 1
to 4 lbs.
All weights in blocks.

Notes Special Adjujustment.

WE CAN OBTAIN ANY TYPE OF SIZE PLIER TO ORDER.

85
Registered Telegraphic Address: "ECONOMIC," Twickenham.

HANDY BIFURCATED

RIVETS.
List No. 664.
Metal Box, containing 100 assorted Rivets, size 4 & to 16 inch, per box, 6d.
List No. 673. Containing 100 assorted Rivets, size 4 to 16 inch, per box, 1½.
Each Box of above Rivets contains small Hand Tool for Driving. Postage 2½ per box.

Useful Set of 3½ inch FILES.
Best Quality.
Each 3½. Set of 6 1/4.
Large sets containing each 9 Files.
4½in. 5½in. 6½in. 7½in. 8½in. 9½in.
Postage extra. per set of 6. Postage extra.

SPIRIT LEVELS.
A Splendid Combination with 4½. or 6½. Rule. Guaranteed Accurate.
List No. 754. 6½in. each 7d. Postage 2d.
List No. 755. 6½in. each 10½.

BELL HANGERS’ GIRMILETS.
List No. 789. 9½d. 11½d. 1½ each. Postage 4d. to 5d. extra. One of the handiest tools in this list.

GLASS CUTTERS.
List No. 718.
American Rosewood Handle. Very Useful. (as illustration).
Each 6½d. Postage 1½d.
List No. 719. Real Diamond Cutter. For thin sheet, each 1½d. For thick sheet, each 2½d. Postage 2½d. extra.

ENGINEERS’ AND FITTERS’ STEEL SQUARES.
Divided in 1/4ins. Hardened Steel throughout, guaranteed accurate.
List No. 732.
3½ 4½ 5½ 6½ 7½ 8½ to 12½ 16½ 24½ 30½ 36¼.
List No. 736. 17½ 19½ 21½ 23½ 25½ 27½ 29½ 31½ 33½ 35½ 37½ 39½. Postage extra according to weight.

CARPENTERS’ SQUARES.
Cheap Quality, Steel Blade.
List No. 740.
8½d. 10d. 12½d. 1 each.

CENTRE PUNCHES.

THE ECONOMIC ELECTRIC CO. Twickenham, London, S.W.

"AMATEURS" STOCKS AND DIES.
A useful set suitable for amateurs’ use, comprising 6 Tapes and 6 Dies, cutting 3½, 4½, 5½ inch.
List No. 1013. Complete set, postage extra.
Larger set with Tap, Wrench, cutting 1½, 2½, 3½, 4½, 5½ inch.
List No. 1014. Complete set, postage 4d. extra.
"E.E.C." Stocks and Dies for Dieses.
With Taper and Plug Dies to each size, guaranteed reliable and accurate.
List No. 1015. Complete Set, 9 each.
19d. 2½ 4½ 7½ 9d. 17½ 30d. 5½ 1½ 7½ 14d. 2½ 9d. 1½ 7½ 3½ 9d. 1½ 7½ 1½
Carriage forward. Each set contains 6 Tapes and necessary Dies. There is a cheaper set, but do not recommend for good accurate work.

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List No. 1017 Black Steel Spring Lock (as illustration). Each 6½d. Postage 4½d.
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List No. 1019 Letter Lock, 1 Roll. Each 7½d. Postage 4½d.
List No. 1020 Best Quality Letter Locks, 1½ each.
List No. 1021 (As Illustration) Brass Lock, Hand Made, very strong.
List No. 1022 Nickel Plated. Each 1½.

THE "ECONOMY" SOLDERING SETS.
Very Useful Sets, comprising Soldering Iron, Tin, Solder, and Box of Rosin. Complete, with very full printed directions. Any amateur can use after once reading directions.
List No. 1023 Small size.

LIST 2½ 4½ 7½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d. 1½ 7½ 1½ 7½ 5½ 9d.

SOLDERING IRONS.

Pocket Knives.
Pearl Horn, Iron, or Bone, German Silver Bolster and Shield, Brass Line, very neat and useful.
The "Record" (as illustration), 1½. Usual price 1½d.
The "Econ", 3 blades, 1½. Usual price 1½d.

WE CAN OBTAIN ANY TOOL TO ORDER AT THE RIGHT PRICE.
THE ECONOMIC ELECTRIC CO. Established 1893.

"REVERSIBLE."
List No. 782.

THE "REVERSIBLE" SCREWDRIVER.
Blades of Wrought Steel; Polished Handles.
Postage 10c. extra.

FLAT STEEL COLD CHISELS.
List No. 783.
Yankee Ratchet Screwdrivers.
List No. 784.

FRENCH PATTERN CUTTING NIPPERS.
List No. 785.

DRILL CHUCKS.
m.m. 0.4 0.6 0.9 1.2
Each 5c. 6c. 7c. 8c.
Take 1/4 1/2 1/8 1/4
Postage extra.

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List No. 786.

THE ECONOMIC ELECTRIC CO. Telephone—318 P.O. Richmond.

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List No. 787.

TWIST DRILLS.
Size

SPLIT PINS.

CUP HOOKS AND EYES.

TOOL PADS.

STEEL RULES.

STEEL RULES.
(Engineers')

File No. 774.

CHEAPEST HOUSE FOR RELIABLE TOOLS IN LONDON.
### STANDARD WHITWORTH SCREWS (Brass and Iron)

**Round Head No. 1.**

<table>
<thead>
<tr>
<th>List No.</th>
<th>Length Under Head</th>
<th>Size</th>
<th>B.A.</th>
<th>Per Doz.</th>
<th>B.A. (British Association)</th>
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</thead>
<tbody>
<tr>
<td>1047</td>
<td>1/6</td>
<td>5</td>
<td>B.A.</td>
<td>1/4</td>
<td>2/4</td>
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<td>1048</td>
<td>1/6</td>
<td>4</td>
<td>B.A.</td>
<td>3/4</td>
<td>1/4</td>
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<td>1049</td>
<td>1/6</td>
<td>3</td>
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<td>7/8</td>
<td>1/2</td>
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<tr>
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<td>B.A.</td>
<td>5/8</td>
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<td>1051</td>
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<td>B.A.</td>
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**Countersunk No. 2.**

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<th>Per Doz.</th>
<th>B.A. (British Association)</th>
</tr>
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<td>5</td>
<td>B.A.</td>
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<td>2/4</td>
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<tr>
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<td>B.A.</td>
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<td>1/4</td>
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<tr>
<td>1049</td>
<td>1/6</td>
<td>3</td>
<td>B.A.</td>
<td>7/8</td>
<td>1/2</td>
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<tr>
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<td>1/6</td>
<td>2</td>
<td>B.A.</td>
<td>5/8</td>
<td>3/4</td>
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<tr>
<td>1051</td>
<td>1/6</td>
<td>1</td>
<td>B.A.</td>
<td>3/8</td>
<td>1/4</td>
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**Cheese Head No. 3.**

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<th>List No.</th>
<th>Length Under Head</th>
<th>Size</th>
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<th>Per Doz.</th>
<th>B.A. (British Association)</th>
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</thead>
<tbody>
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<td>5</td>
<td>B.A.</td>
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<td>2/4</td>
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<td>B.A.</td>
<td>3/4</td>
<td>1/4</td>
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<tr>
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<td>3</td>
<td>B.A.</td>
<td>7/8</td>
<td>1/2</td>
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<td>1/6</td>
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<td>B.A.</td>
<td>5/8</td>
<td>3/4</td>
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<td>1051</td>
<td>1/6</td>
<td>1</td>
<td>B.A.</td>
<td>3/8</td>
<td>1/4</td>
</tr>
</tbody>
</table>

**Round Heads 15 per cent. extra. Postage 1d. doz. | Round Heads 20 per cent. extra.**

### STANDARD WHITWORTH & B.A. HEXAGON NUTS (Brass or Iron)

<table>
<thead>
<tr>
<th>List No.</th>
<th>WHITWORTH</th>
<th>B.A.</th>
<th>Per Doz.</th>
<th>B.A. (British Association)</th>
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<td>1053</td>
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<td>4</td>
<td>B.A.</td>
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</tr>
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<td>1054</td>
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<td>3</td>
<td>B.A.</td>
<td>7/8</td>
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**Postage 1d. per doz.**

### BRASS WASHERS.

<table>
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<th>Size of Centre Hole</th>
<th>WHITWORTH</th>
<th>B.A.</th>
<th>Per Doz.</th>
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<tr>
<td>Turned</td>
<td>1/4</td>
<td>1/4</td>
<td></td>
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**Postage 1d. per doz.**

### STANDARD WHITWORTH AND B.A. DRILLS AND TAPS.

<table>
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<tr>
<th>List No.</th>
<th>WHITWORTH</th>
<th>B.A.</th>
<th>Each.</th>
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<tr>
<td>1046</td>
<td>1/4</td>
<td>1/4</td>
<td></td>
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</tbody>
</table>

**Taps 1 1/2 to 5 1/2 Plated. Taps B.A. pattern are 3 square.**

### STANDARD WOOD SCREWS (Brass or Iron).

**Round Hard.**

<table>
<thead>
<tr>
<th>Size</th>
<th>WHITWORTH</th>
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<th>Each.</th>
</tr>
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<td>1046</td>
<td>1/4</td>
<td>1/4</td>
<td></td>
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**Ordinary Flat Head Iron.**

<table>
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**Flat Head Iron.**

<table>
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<tbody>
<tr>
<td>1046</td>
<td>1/4</td>
<td>1/4</td>
<td></td>
</tr>
</tbody>
</table>

### WORKSHOP MATERIALS.

**Being ACTUAL MANUFACTURERS we are able to sell at very low prices. Anything not listed we shall have pleasure in quoting you.**

<table>
<thead>
<tr>
<th>Description</th>
<th>Per lb.</th>
<th>Per pc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf, for Lawn, 14 lbs.</td>
<td>14 lbs.</td>
<td></td>
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<tr>
<td>Black Wax, for Staining</td>
<td>2 lbs.</td>
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<tr>
<td>Resin</td>
<td>2 lbs.</td>
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<tr>
<td>Copper Valves</td>
<td>2 lbs.</td>
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<tr>
<td>Black Copper Powder</td>
<td>2 lbs.</td>
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<tr>
<td>Metal Varnish</td>
<td>2 lbs.</td>
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<td>Linseed Oil</td>
<td>2 lbs.</td>
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<td>Copper Clad Wire</td>
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<tr>
<td>Brass Rod</td>
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<tr>
<td>Copper Wire</td>
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<tr>
<td>Steel Wire</td>
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<tr>
<td>Tin Plate</td>
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<tr>
<td>Copper Pipe</td>
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<td>Steel Pipe</td>
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<td>Zinc Rod</td>
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<tr>
<td>Brass Sheet</td>
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<tr>
<td>Copper Sheet</td>
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<td></td>
</tr>
<tr>
<td>Steel Plate</td>
<td>2 lbs.</td>
<td></td>
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</tbody>
</table>

**IN GROSS LOTS, write us for Low Quotation.**
THE "M.E." SERIES.  ALL FULLY ILLUSTRATED.

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7 Metal Working Tools: and Their Uses...
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13 Alumina Machinery for Model Steamers...
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15 Simple Scientific Experiments
16 Acetylene Gas: How to Make and Use It
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CLEAN DEPOSITS. RELIABLE. PRICE RIGHT.

You will obtain quite satisfactory results from these useful Electro-Plating Sets if carefully used. They are practical and substantially constructed and will compare very favourably with considerably higher priced articles.


List No. 1702. Similar to 1701, but with Glass Box measuring 6 in. high, 4½ in. long, 2½ in. wide, with extra Nickel Salts and Larger Nickel Anode. COMPLETE SET 5½, postage 8/ extra.


List No. 1704. Carriage Forward.

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Any Book not in above list we can obtain in 24 hours.

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# Testimonials

**MANCHESTER.**

Dear Sirs,

Received goods New Year's Day. I must say I have never received goods so promptly. Thanking you for your prompt attention.

GERALD R. FOX.

**SHOREHAM.**

Dear Sirs,

Armstrong's service is very good. I am very pleased with the service received. I hope to pass you an order of a large nature in the near future.

N. D. MILLER.

**OXFORD.**

Dear Sirs,

I am sending you a cheque for the balance due.

E. ROBERTSON.

**ANGMERING.**

Dear Sirs,

Ammonia received; very satisfactory.

G. CHAPPLE.

**SHEFFIELD & COMPANY LIMITED**

Printers, 78 & 79, Clerkenwell Road, E.C.

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"YOU WILL BE EVERY BIT AS SATISFIED."