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Instruments to illustrate the Principles of

GALVANISM, ELECTRO-MAGNETISM,
ELECTRO-DYNAMICS, MAGNETO-ELECTRICITY,
MAGNETISM, THERMO-ELECTRICITY.

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---

*Figure.**		*Price.*
1.	Two Bar Magnets and Armatures, in box,...	$3,00 to 5,00
2.	Compound Bar Magnet,.....	2,50 to 4,00
3.	Horseshoe or U-Magnet,.....	,25 to ,75
4.	Compound U-Magnet,.....	2,00 to 5,00
5.	Magnetic Needle, on brass stand,.....	,75 to 1,00
6.	Small Dipping Needle,.....	1,00 to 1,50
9.	Smee's Battery, (each pair,).....	1,50 to 2,00
12.	Large Sulphate of Copper Battery,.....	7,00
	Sulphate of Copper Battery, (medium size,)...	5,00
	Small Sulphate of Copper Battery,.....	2,00
13.	Protected Sulphate of Copper Battery,.....	1,25
15.	Protected Sulphate of Copper Battery, ...	1,50 to 2,00

* The numbers in the first column correspond with those of the cuts in Davis's Manual of Magnetism, 2d ed.

Figure.		*Price.*
17.	Grove's Battery, (single pair,)	$2,00 to 2,50
18.	Grove's Battery, in box, (per pair,)	1,50—2,00 & 2,50
20.	Large Trough Battery, (100 pairs,)	85,00
21.	Grasshopper Battery,	,25 to ,50
22.	Frog, or Leech Battery,	50 to ,75
25.	Double Forceps, on stand,	2,00 to 5,00
26.	Powder Cup, of glass,	,25
	Powder Cup, of brass,	,50
27.	Voltaic Gas Pistol,	2,50
28.	Decomposing Cell, with one gas tube,	2,50
	Decomposing Cell, with two gas tubes,	3,50
29.	Cell for delicate decompositions,	2,00 to 3,00
30.	Divided Tumbler, for decompositions,	2,00 to 3,00
31.	U-Tube, on stand,	3,50
32.	Smee's Battery, (improved,)	3,00 to 5,00
34.	Smee's Battery, for gilding and silvering, (per pair,)	2,00
35.	Smee's Battery, for gilding, &c., (improved,)	1,50 to 2,00
38.	Thermo-Electric Pair,	,25
39.	Delicate Galvanometer,	3,00 to 5,00
40.	Thermo-Electric Series, (10 pairs,)	2,00
41.	Thermo-Electric Battery, (60 pairs,)	25,00
42.	Cold and Heat Instrument,	3,00
52.	Astatic Needle, on stand,	1,50 to 2,00
53.	Simple Galvanometer,	2,50 to 3,50
54.	Horizontal Galvanometer,	6,00
55.	Upright Galvanometer,	5,00
56.	Magnet revolving round Conductor,	6,00
57.	Magnet revolving on its Axis,	6,00
58.	Revolving Wire Frames,	8,00
59.	Revolving Cylinders,	8,00
60.	Rotating Batteries,	8,00
61.	Vibrating Wire, (with magnet,)	5,00
62.	Vibrating Wire, with fixed magnet,	6,00
63.	Gold Leaf Galvanoscope,	5,00 to 7,00
64.	Revolving Spur-Wheel,	5,00 to 8,00
65.	De la Rive's Ring, in small glass cup,	1,00
66.	Vibrating Coil Engine,	8,00
67.	Reciprocating Coil Engine,	10,00
68.	Reciprocating Magnet Engine,	10,00

Figure		*Price.*
69.	Revolving Coil,	$6,00
71.	Revolving Rectangle,	6,00
72.	Revolving Galvanometer Needle,	6,00 to 7,00
73.	Revolving Coil and Magnet,	8,00 to 10,00
74.	Thermo-Electric Revolving Arch,	2,00
75.	Thermo-Electric Arch, on U-magnet,	4,00
76.	Thermo-Electric Revolving Frames,	6,00
77.	Thermo-Electric Arch, between poles of U-magnet,	4,00
78.	Double Thermo-Electric Revolving Arch,	6,00
79.	Magnetic Needle, (on brass stand,)	75 to 1,50
80.	Large Dipping Needle, on universal joint,	4,00 to 6,00
82.	Bar Magnets, in frame, (to illustrate Earth's magnetism,)	6,00
84.	Globe, with Coil and two Needles,	4,00
87.	Star-shaped Iron Plate,	,75
89.	U-Magnet and Rolling Wires,	1,00 to 2,00
90.	Y-Armature,	,30
92.	Rolling Armature, with U-magnet,	2,00
93.	Magnet Armature and Roller,	1,50
94.	Short Rolling Wire, with U-magnet,	1,00 to 1,50
99	Iron Wire, sealed up in glass tube, (with magnet,)	,75
100.	Instrument for measuring Attractive Force,	15,00
101.	Bar Magnet, for fracturing, each,	,12
107.	Helix, on stand, (with iron bar,)	2,00 to 2,50
108.	Heliacal Ring and Semicircles, (ball and socket joints,)	5,00
109.	Heliacal Ring and Semicircles,	2,50 to 4,00
110.	Grove's Battery, with covered top,	6,00 to 8,00
111.	Heliacal Ring and Double Cylinders,	4,00 to 6,00
112.	Flat Spiral, per lb.,	,75 to 1,00
113.	Magnetizing Helix, per lb.,	1,25 to 1,50
114.	Axial Bell Engine,	8,00
115.	Axial Revolving Bar,	6,00 to 8,00
116.	Inclined Revolving Bar,	5,00 to 6,00
117.	Inclined Bar revolving round Conductor,	6,00
118.	Axial Revolving Circle,	10 to 12,00
119.	Vibrating Helix,	4,00
120.	Double Helix and U-shaped Bar,	1,50
121.	Double Axial Bell Engine,	8,00
122.	Upright Axial Engine,	15,00
123.	Horizontal Axial Engine,	18,00

Figure.		*Price.*
124.	Double Beam Axial Engine,	$ 15,00 to 18,00
125.	Single Beam Axial Engine,	15,00
126.	Small Electro-Magnet,	,75 to 1,00
127.	Electro-Magnet, in frame,	8,00 to 12,00
128.	Electro-Magnet, in case,	10,00 to 25,00
129.	Electro-Magnet, with three poles,	3,00
130.	Steel Bar, of the U form, for charging,	,25 to 50
131.	Magnetometer,	12,00
132.	Axial Magnetometer,	12,00 to 15,00
133.	Electro-Magnetic Telegraph,	5,00
134.	Telegraph, with Clock-work,	25,00 to 35,00
135.	Signal Key,	2,50
136.	Axial Receiving Magnet,	20,00
137.	Axial Telegraph,	6,00 to 10,00
138.	Axial Telegraph, with Clock-work,	25,00 to 35,00
139.	Axial Telegraph, with Engine,	35,00
140.	Reciprocating Armature Engine,	10,00 to 12,00
141.	Horizontal Reciprocating Engine,	18,00 to 20,00
142.	Revolving Armature,	3,50
143.	Revolving Armature Engine,	6,00
144.	Vibrating Armature Engine,	10,00
145.	Vibrating Armature Engine,	8,00
146.	Revolving Electro-Magnet,	5,00
147.	Revolving Bell Engine,	10,00 to 12,00
148.	Registering Revolving Magnet,	6,00 to 8,00
149.	Electro-Magnet, revolving by the Earth's action,	8,00
150.	Electro-Magnet, revolving by the Earth's action,	7,00
151.	Electro-Magnet, revolving within a coil,	8,00
152.	Double Revolving Magnet,	7,00 to 8,00
153.	Revolving Wheels, with electro-magnet,	8,00
154.	Revolving Wheels,	8,00 to 10,00
155.	Electro-Magnet, revolving on its axis,	7,00
156.	Iron Bar, for showing magnetic induction of Earth,	,75
159.	Attracting and Repelling Wires,	3,50
160.	Contracting Helix,	3,50
162.	Electro-Dynamic Revolving Coil,	6,00
163.	Electro-Dynamic Revolving Rectangle,	7,00
164.	Instrument for showing the revolution of Mercury,	4,00
	Same Instrument, with iron cup,	5,00

Figure.		*Price.*
165.	Clock-work Electrotome,	$ 6,00 to 7,00
167.	Fine Wire Coil, per lb.,	1,50
168.	Double Helix and Electrotome,	20,00
172.	Galvanometer, Astatic Needle,	5,00
173.	Magneto-Electric Machine,	30,00 to 35,00
174.	Improved Magneto-Electric Machine,	40,00 to 45,00
175.	Magneto-Electric Machine, with Vibrating Electrotome,	45,00
176.	Vibrating Electrotome,	4,00 to 5,00
177.	Magneto-Electric Machine, for quantity,	40,00
179.	Separable Helices, with handles,	10,00 to 12,00
181.	Separable Helices and Electrotome,	20,00
	Apparatus for showing the Suspension in Air of an Iron Rod by Repulsion,	3,00
182.	Double Helix and Vibrating Electrotome, with Battery and Handles,	10,00 to 12,00
183.	Compound Magnet and Electrotome,	8,00 to 10,00
184.	Apparatus for showing Induction of the Earth,	12,00

INSTRUMENTS IN THE MEDICAL APPLICATION OF ELECTRICITY.—SECOND EDITION.

Figure.		*Price.*
1.	Galvanic Battery, (according to size,)	$ 2, 5, 7,00
2.	Electro-Magnetic Apparatus, with Battery and Handles,	8,00 to 10,00
3.	Electro-Magnetic Apparatus and Revolving Armature with Battery,	15,00
4.	Electro-Magnetic Apparatus and Vibrating Armature,	10,00 to 12,00
5.	Electro-Magnetic Box Apparatus, (complete,).	12,00
6.	Magneto-Electric Machine,	30,00 to 35,00
7.	Improved Magneto-Electric Machine,	25,00 to 30,00
8.	Box Magneto-Electric Machine,	30,00 to 35,00
	Covered Copper and Iron Wire, per lb.	
	Fine Platinum Wire for Experiments.	

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OF

APPARATUS,

TO ILLUSTRATE

MAGNETISM, GALVANISM, ELECTRO-DYNAMICS, ELECTRO-MAGNETISM, MAGNETO-ELECTRICITY, AND THERMO-ELECTRICITY.

MANUFACTURED AND SOLD

BY

DANIEL DAVIS,

MAGNETICAL INSTRUMENT MAKER;

No. 428 Washington Street,

BOSTON.

1852.

CATALOGUE OF APPARATUS.

The Cuts are numbered in correspondence with Davis's "Manual of Magnetism," 2d Edition, where full descriptions will be found. Those lettered A, B, C, &c., are additional.

MAGNETISM.

Fig. 1.

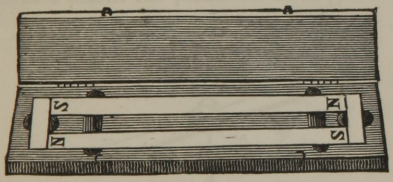


Figure 1. Two Bar Magnets and Armatures, in box. Price $3. to 5.00.

Fig. 2.

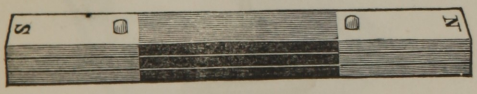


Fig. 2. Compound Bar Magnet.
Price $2.50 to 4.00.

Fig. 3.

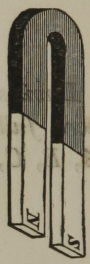


Fig. 4.

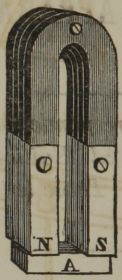


Fig. 5.

Fig. 3. U Magnet. Price 25 to 75 cents.

Fig. 4. Compound U Magnet. Price $2. to 5.00.

Fig. 5. Magnetic Needle, on brass stand.
Price 75 cts. to $1.00.

Fig. 79.

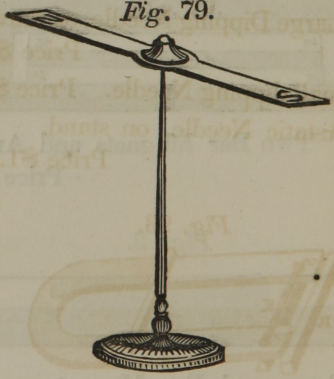


Fig. 79. Magnetic Needle, on brass stand.
Priec 75 cts. to $1.50.

Fig. 80.

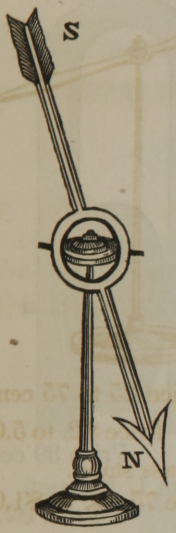


Fig. 6.

Fig. 52.

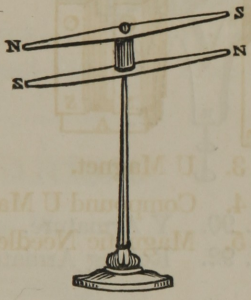


Fig. 80. Large Dipping Needle, on universal joint.
Price $4. to 6.00.

Fig. 6. Small dipping Needle. Price $1. to 1.50.

Fig. 52. Astatic Needle, on stand.
Price $1.50 to 2.00.

Fig. 93.

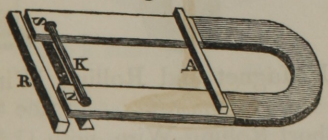


Fig. 93. Magnet, Armature and Roller.
Price $1.50.

Fig. 90.

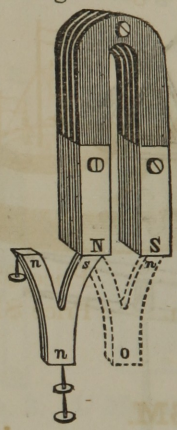


Fig. 92.

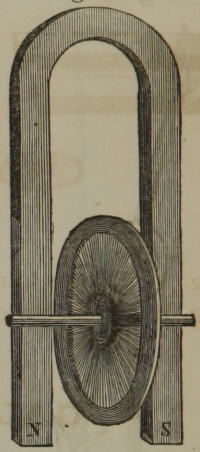


Fig. 90. Y Armature. Price 30 cents.

Fig. 92. Rolling Armature, with U Magnet. Price $2.00.

Fig. 89.

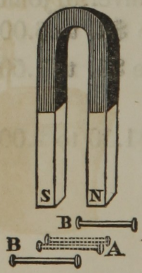


Fig. 94,

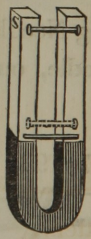


Fig. 99.

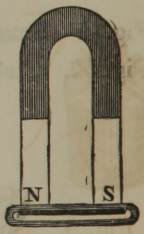


Fig. 89. U Magnet and Rolling Wires. Price $1. to 2.00.

Fig. 94. Short Rolling Wire, with U Magnet. Price $1. to 1.50.

Fig. 99. Iron Wire, (sealed up in glass tube,) with Magnet. Price 75 cents.

Fig. A.

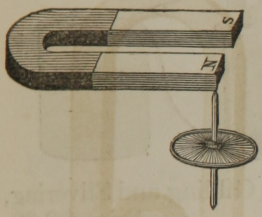


Fig. B.

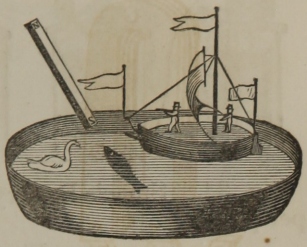


Fig. A. Magnet and Wheel. Price $2.00.
Fig. B. Ship, Swans and Fish. Price $1.50.

GALVANISM.

Fig. 12.

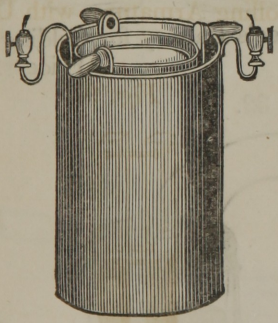


Fig. 9.

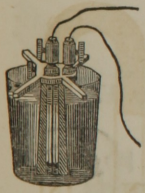


Fig. 15.

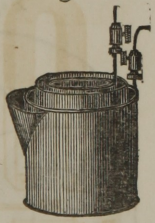


Fig. 9. Smee's Battery.
Price $1.50 to 2.00 per pair.

Fig 12. Sulphate of Copper Battery. Price for large, $7.00, medium size, $5.00, small size, $2.00.

Fig. 15. Protected Sulphate of Copper Battery.
Price $1.50 to 2.00.

Fig. 34.

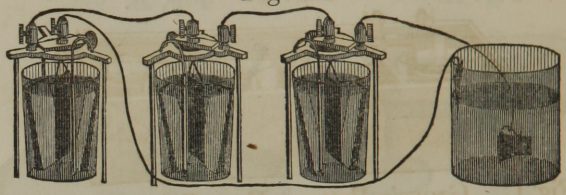


Fig. 34. Smee's Battery for Gilding and Silvering, (per pair.) Price $2.00.

Fig. 35.

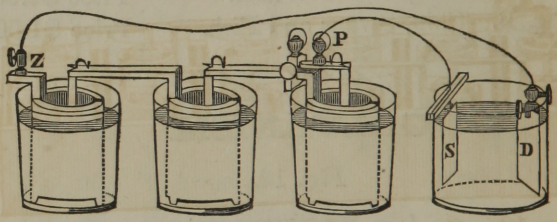


Fig. 35. Smee's Battery for Gilding. Price $2.00 per pa

Fig. 32.

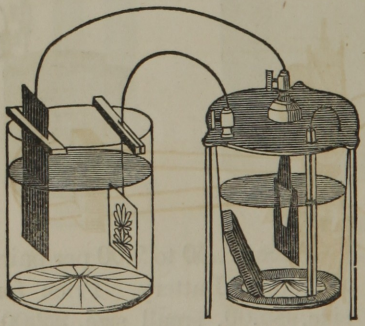


Fig. 17.

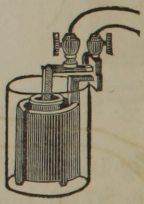


Fig. 32. Smee's Battery. Price $3. to 5.00.
Fig. 17. Grove's Battery, (single.) Price $2.00.

Fig. C.

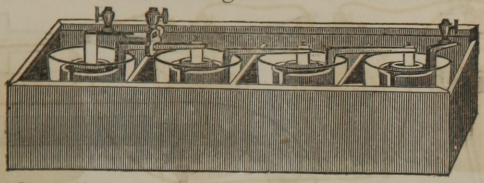


Fig. C. Grove's Battery, Four Pairs. Price $8.

Fig. 18.

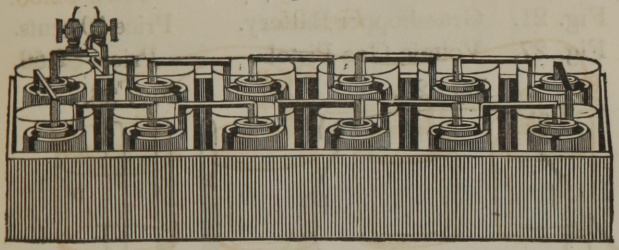


Fig. 18. Grove's Battery, in box, (per pair.)
Price $1.50, 2.00 and 2.50.

Fig. 22.

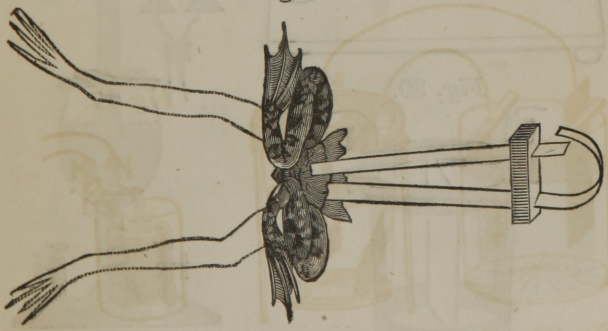


Fig. 22. Frog or Leech Battery.
Price 50 to 75 cents.

Fig. 21.

Fig. 27.

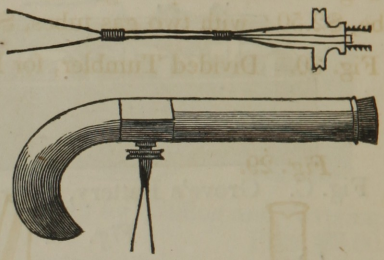


Fig. 21. Grasshopper Battery. Price 50 cents.
Fig. 27. Voltaic Gas Pistol. Price $2.50.

Fig. 25.

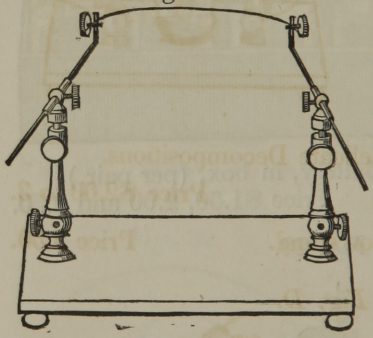


Fig. 28.

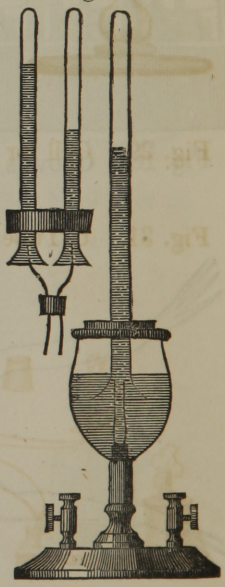


Fig. 30.

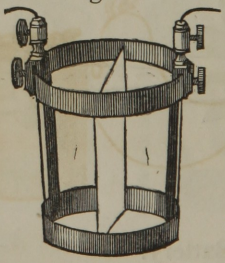


Fig. 25. Double Forceps, on Stand. Price $5.00.

Fig. 28. Decomposing Cell. Price with one gas tube, $2.50 : with two gas tubes, $3.50.

Fig. 30. Divided Tumbler, for Decompositions.
Price 2. to 3.00.

Fig. 29.

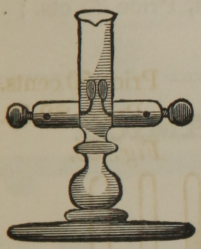


Fig. 31.

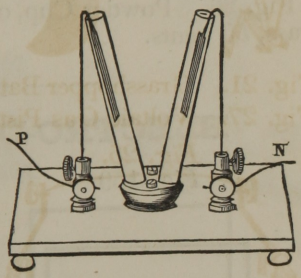


Fig. 29 Cell for delicate Decompositions.
Price $2.00 to 3.

Fig. 31. U-Tube, on stand. Price 3.50.

Fig. D.

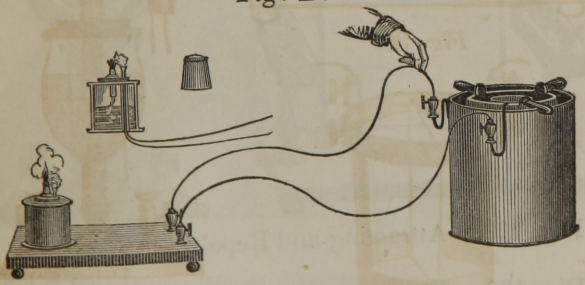


Fig. D. Galvanic Lamp.
Price, without the Battery. $2.50.

Fig. 26.

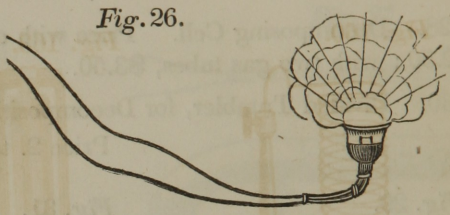


Fig. 26. Powder Cup, of glass, Price 25 cts.; of brass, 50 cents.

ELECTRO-DYNAMICS.

Fig. 159.

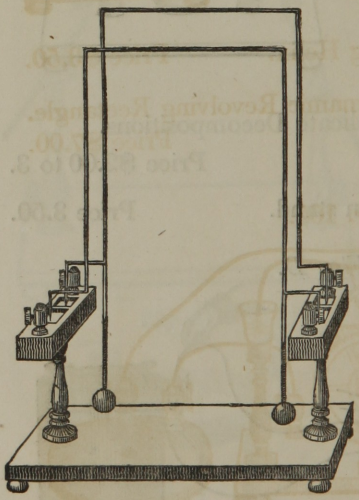


Fig. 162.

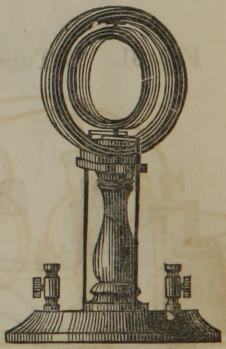


Fig. 159. Attracting and Repelling Wires.
Price $3.50.

Fig. 162. Electro-Dynamic Revolving Coil.
Price $6.00

Fig. 160.

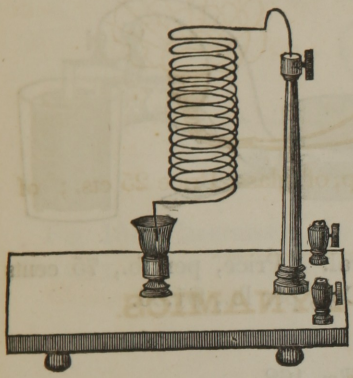


Fig. 163.

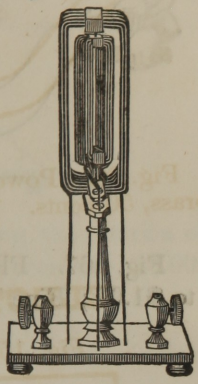


Fig. 160. Contracting Helix. Price $3.50.

Fig. 163. Electro Dynamic Revolving Rectangle. Price $7.00.

Fig. 165.

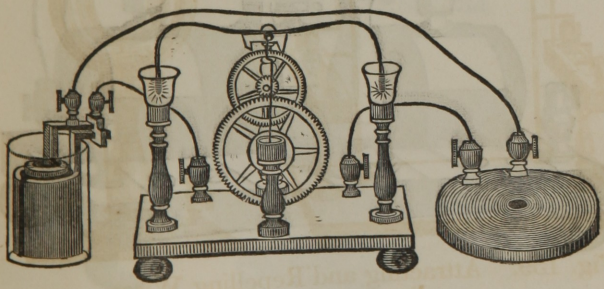


Fig. 165. Clock Work Electrotome. Price $6.00 to $7.

Fig. 167.

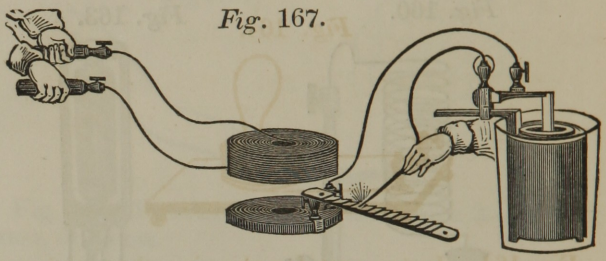


Fig. 167. Flat Spiral. Price, per lb., 75 cents to $1.00; Fine Wire Coil, per lb., $1.50.

Fig. 168.

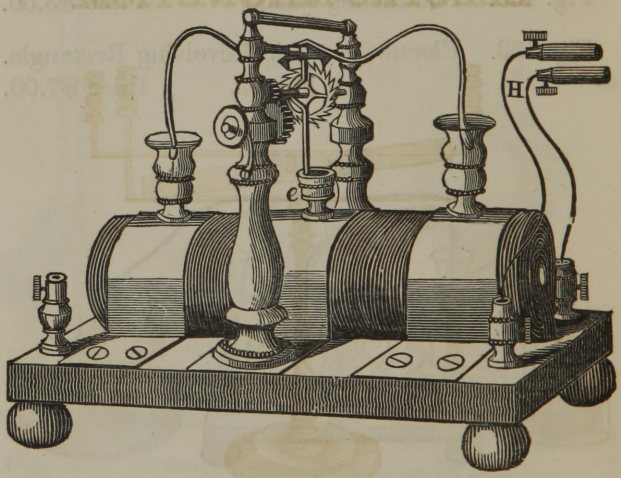


Fig. 168. Double Helix and Electrotome.
Price $20.00.

Fig. 164.

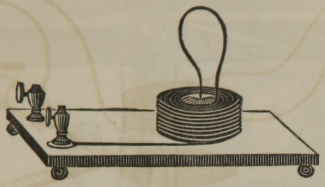


Fig. 164. Instrument for showing the rotation of Mercury. Price $4.00; with iron cup, $5.00.

ELECTRO-MAGNETISM.

Fig. 53.

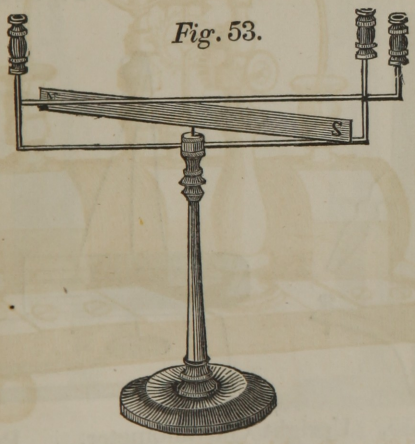


Fig. 53. Simple Galvanometer. Price $3.50.

Fig. 54.

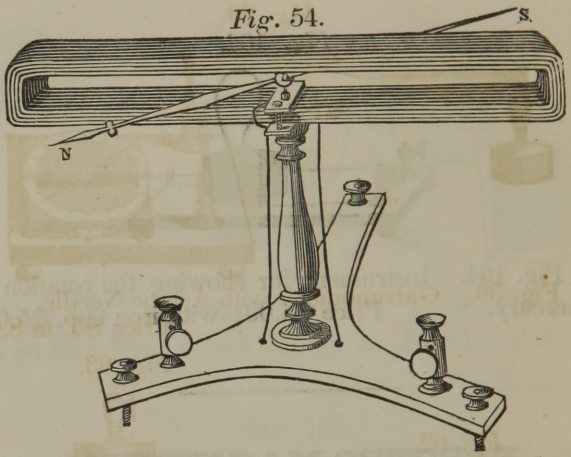


Fig. 54. Horizontal Galvanometer. Price $6.00.

Fig. 55.

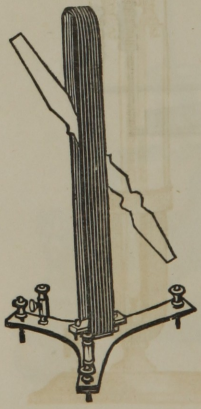


Fig. 61.

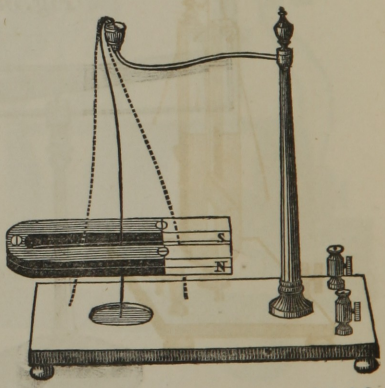


Fig. 55. Upright Galvanometer. Price $5.00.

Fig. 61. Vibrating Wire, (with magnet.)
Price $5.00.

Fig. 39.

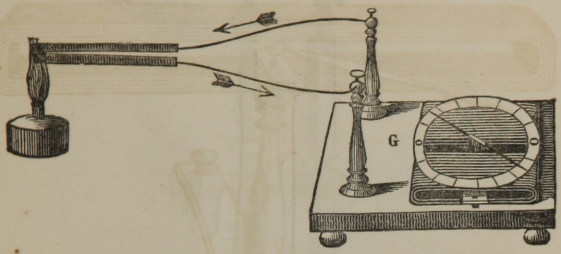


Fig. 39. Galvanometer with Astatic Needle.
Price $5. to 8.00.

Fig. 62.

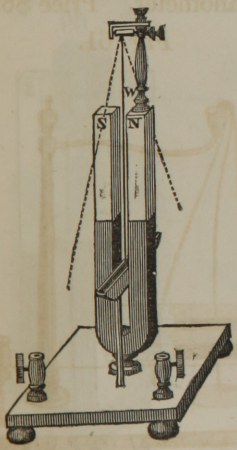


Fig. 63.

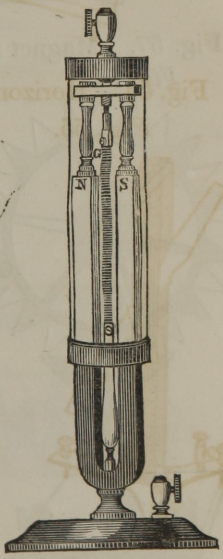


Fig. 62. Vibrating Wire, with fixed magnet.
Price $6.00.

Fig. 63. Gold Leaf Galvanoscope. Price $7.00.

Fig. 57.

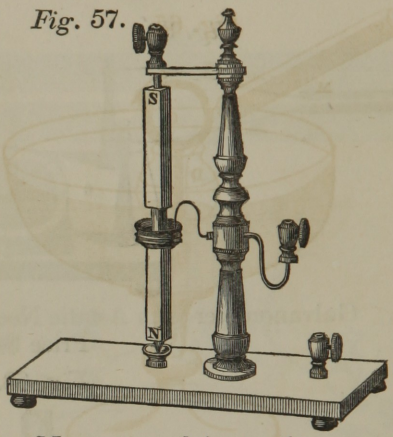


Fig. 57. Magnet revolving on its own axis.
Price $6.00.

Fig. 64.

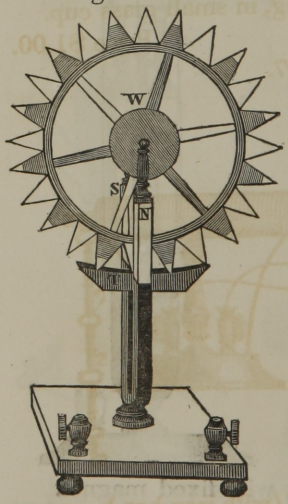


Fig. 69.

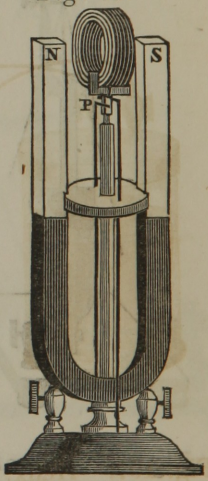


Fig. 64. Revolving Spur-Wheel. Price $5 to 8.00.
Fig. 69. Revolving Coil. Price $6.00.

Fig. 65.

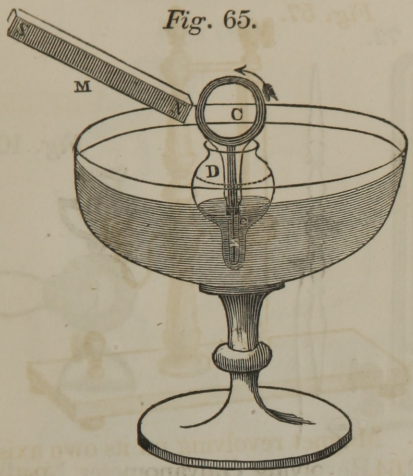


Fig. 65. De la Rive's Ring, in small glass cup.
Price $1.00.

Fig. 107.

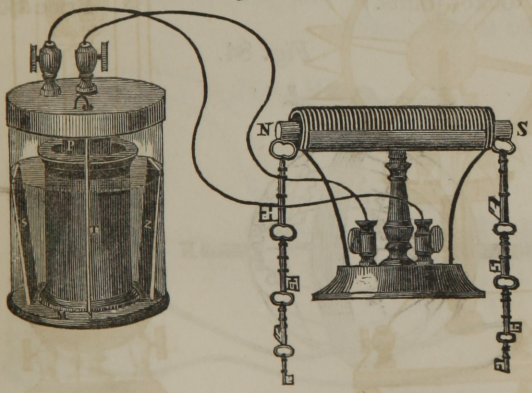


Fig. 107. Helix, on stand, (with iron bar.)
Price $2. to 2.50.

Fig. 72.

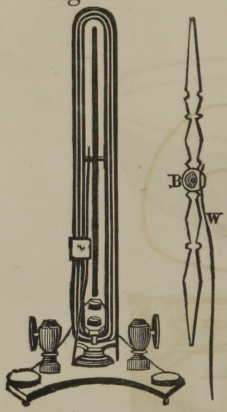


Fig. 108.

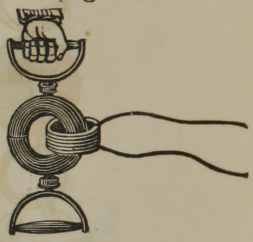


Fig. 72. Revolving Galvanometer Needle.
Price $6. to 7.00.

Fig. 108. Heliacal Ring and Semicircles, (ball and socket joints.) Price $5.00.

Fig. 84.

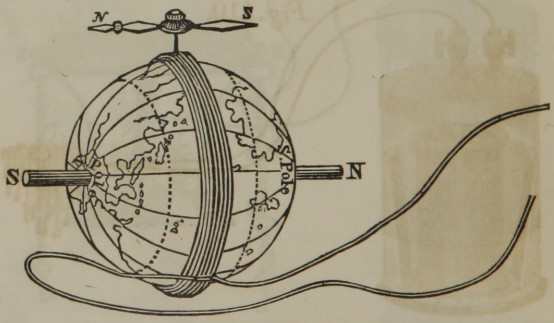


Fig. 84. Globe and Coil, with Magnetic and Dipping Needle. (*See Fig.* 6.) Price $4.00.

Fig. 109.

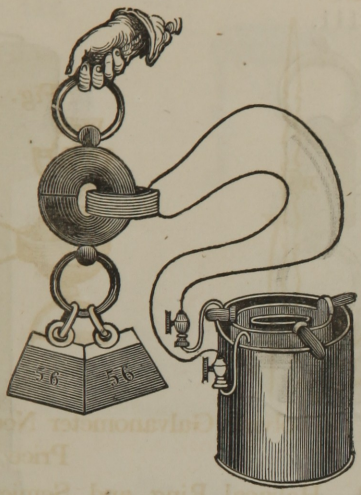


Fig. 109. Heliacal Ring and Semicircles.
Price 2.50 to $4.00.

Fig. 110.

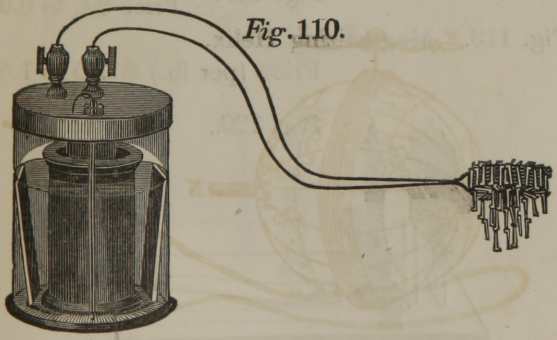


Fig. 110. Grove's Battery, (covered.)
Price $6. to 8.00.

Fig. 111.

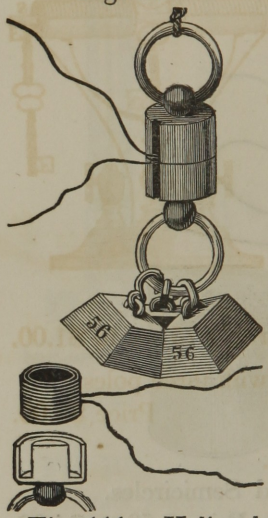


Fig. 113.

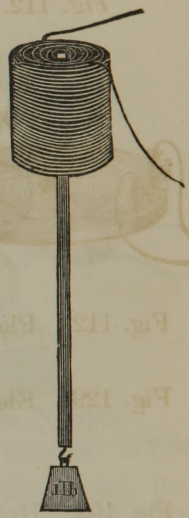


Fig. 111. Heliacal Ring and Double Cylinders.
Price $4. to 6.00.

Fig. 113. Magnetizing Helix.
Price (per lb.) $1.25 to 1.50.

Fig. 120.

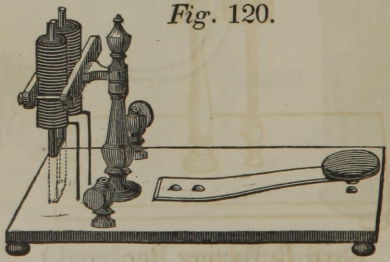


Fig. 120. Double Helix and U-shaped Bar, improved. Price 2.50.

Fig. 112.

Fig. 129.

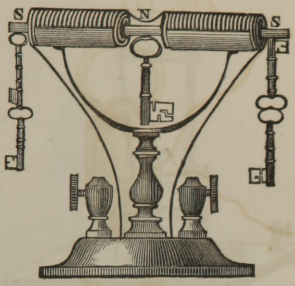


Fig. 112. Flat Spiral.
Price (per lb.) 75 cts. to $1.00.

Fig. 129. Electro-Magnet, with three poles.
Price $3.00.

Fig. 115.

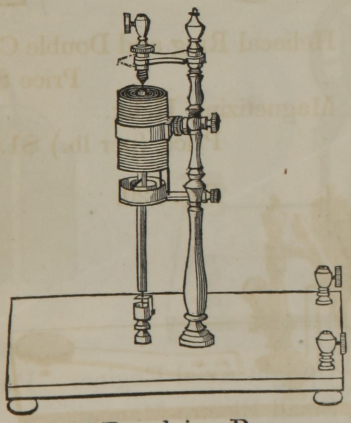


Fig. 115. Axial Revolving Bar.
Price $6. to 8.00

Fig. 116.

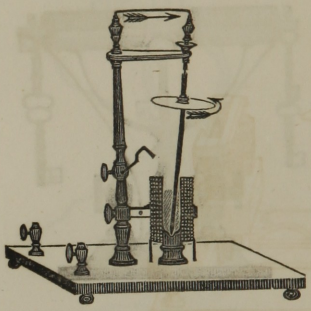
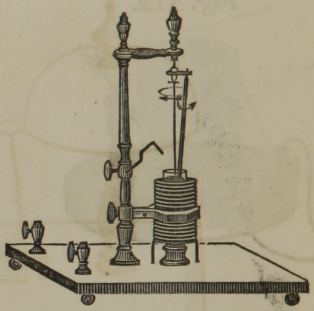


Fig. 117.



Figs. 116—117. Inclined Revolving Bar, and Bar revolving round Conductor. Price $7.00.

Fig. 122.

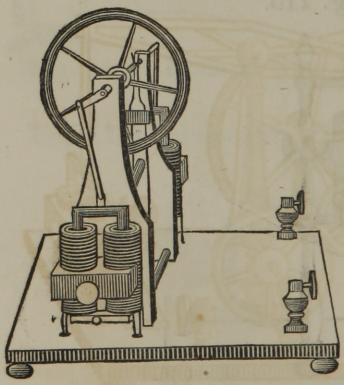


Fig. 126.

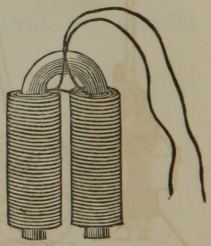


Fig. 122. Upright Axial Engine. Price $15.00.

Fig. 126. Small Electro-Magnet.

Price 75 cts. to $1.00.

Fig. 121.

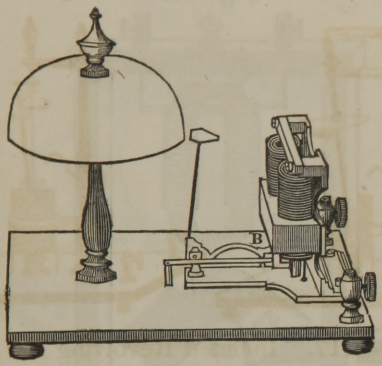


Fig. 121. Double Axial Bell Engine.

Price $8.00.

Fig. 124.

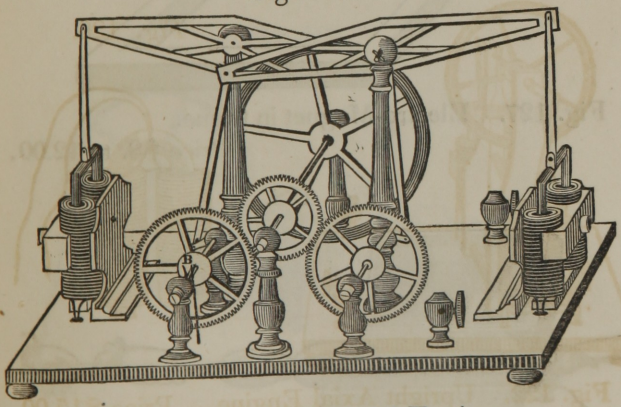


Fig. 124. Double Beam Axial Engine.

Price $15. to 18.00.

Fig. 127.

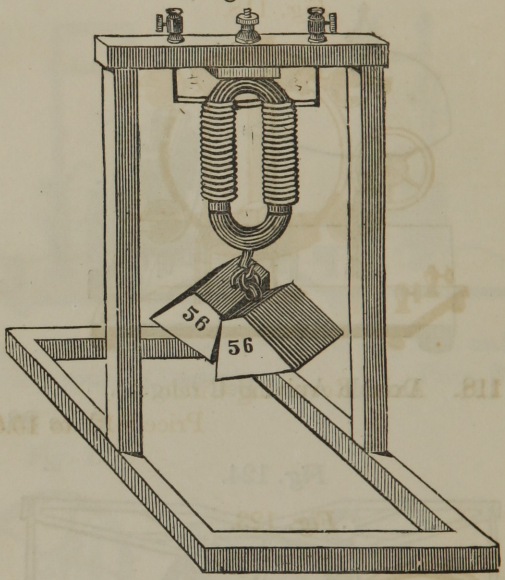


Fig. 127. Electro-Magnet in frame.

Price $8. to 12.00.

Fig. 128.

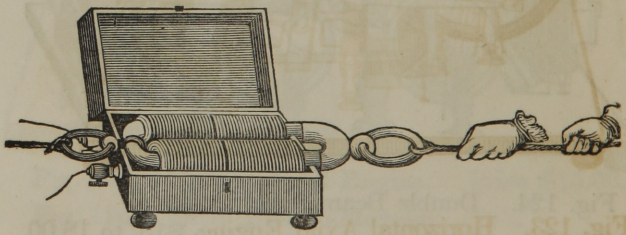


Fig. 128. Electro-Magnet, in case.

Price $10. to 25.00.

Fig. 118.

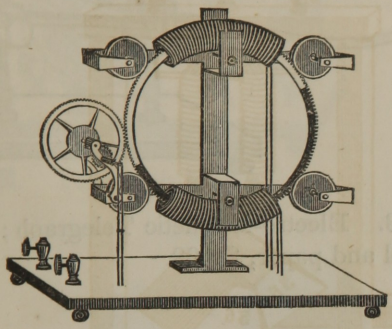


Fig. 118. Axial Revolving Circle.

Price $12. to 15.00.

Fig. 123.

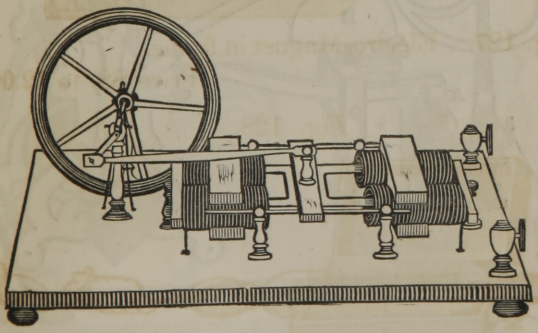


Fig. 123. Horizontal Axial Engine.

Price $18.00.

Fig. 133.

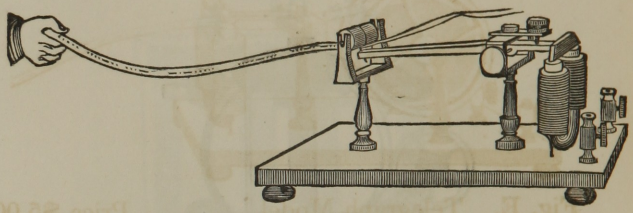


Fig. 133. Electro-Magnetic Telegraph; Price $5. With spool and paper, $8.00.

Fig. 134.

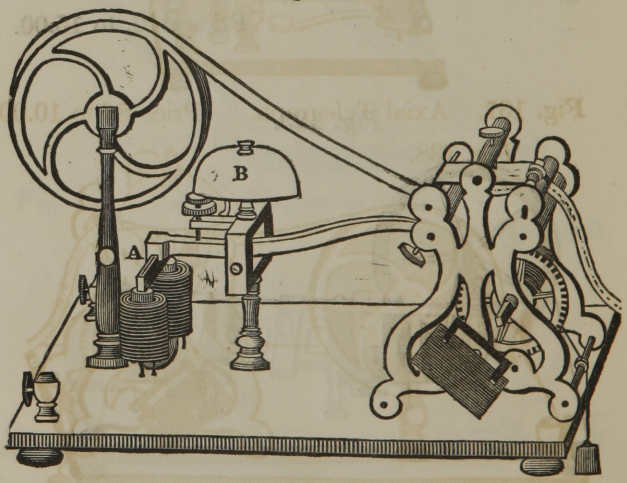


Fig. 134. Telegraph, with Clock-Work.
Price $25. to 35.00.

Fig. E.

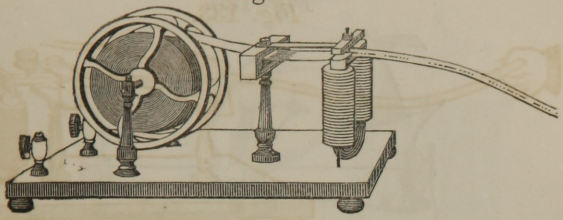


Fig. E. Telegraph Model. Price $5.00.

Fig. 137.

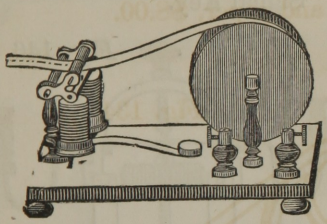


Fig. 137. Axial Telegraph. Price $6 to 10.00.

Fig. 138.

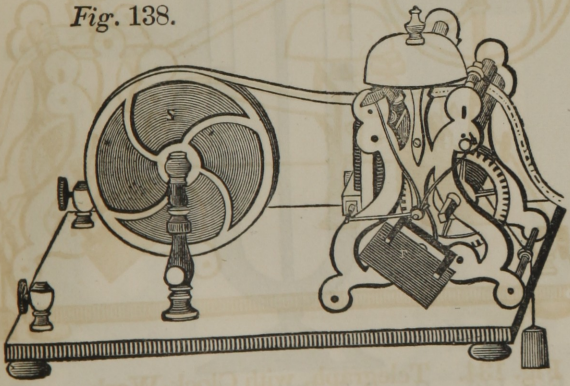


Fig. 138. Axial Telegraph, with block-work.
Price $25. to 35.00.

Fig. 135.

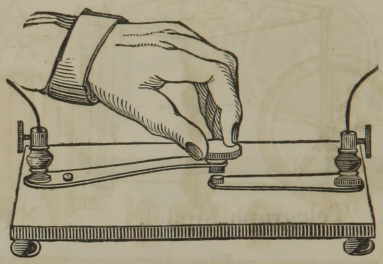


Fig. 135. Signal Key. Price $2.50.

Fig. 146.

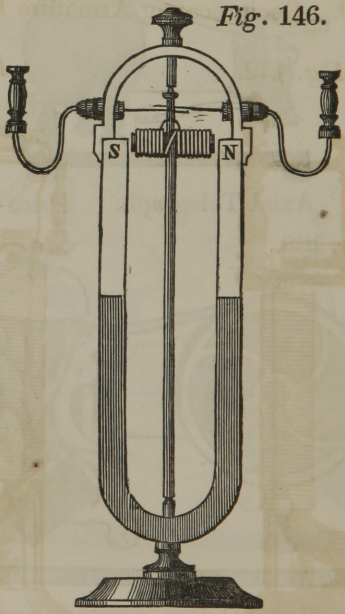


Fig. 146. Revolving Electro-Magnet.

Price $5.00.

Fig. 140.

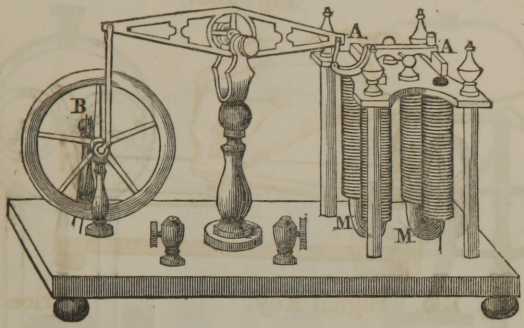


Fig. 140. Reciprocating Armature Engine.
Price $10.00.

Fig. 142.

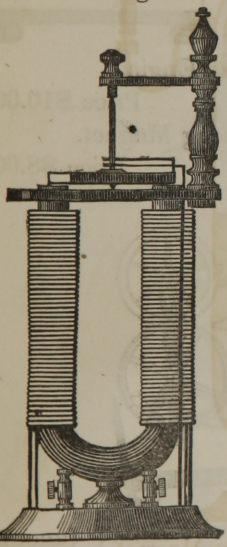


Fig. 143.

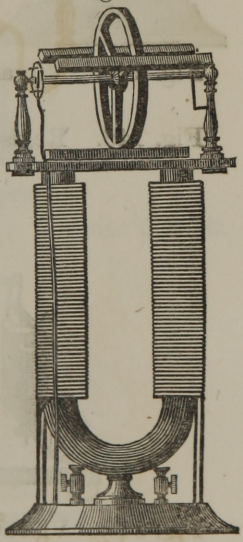


Fig. 142. Revolving Armature. Price $3.50.
Fig. 143. Revolving Armature Engine. Price $6.

Fig. 144.

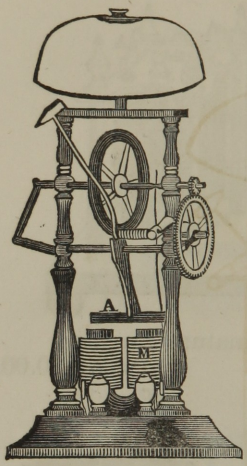


Fig. 148.

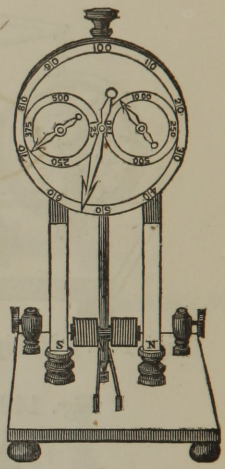


Fig. 144. Vibrating Armature Engine.
Price $10.00.

Fig. 148. Registering Revolving Magnet.
Price $8.00.

Fig. 145.

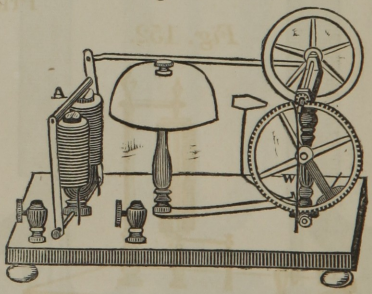


Fig. 145. Vibrating Amature Engine, (another form.)
Price $8.00.

Fig. 147.

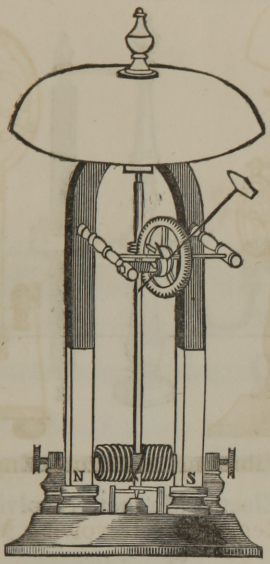


Fig. 147. Revolving Bell Engine.

Price $10.00.

Fig. 152.

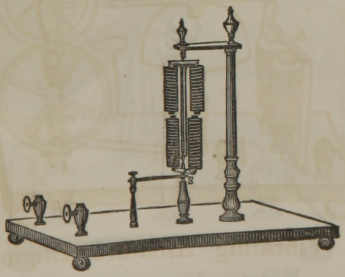


Fig. 152. Double Revolving Magnet.

Price $8.00.

Fig. 155.

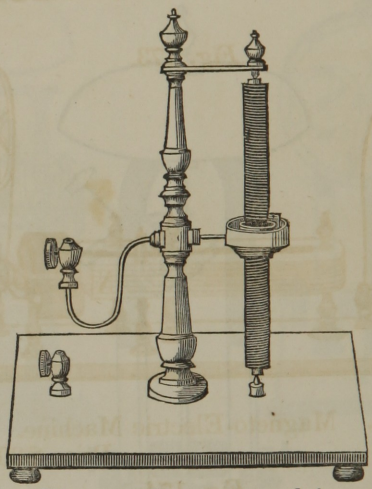


Fig. 155. Electro-Magnet, revolving on its axis. Price $7.00.

Fig. 149.

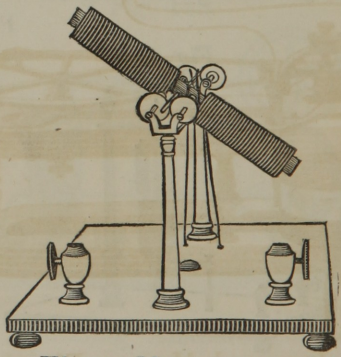


Fig. 149. Electro-Magnet, revolving by the Earth's action. Price $8.00.

MAGNETO-ELECTRICITY.

Fig. 173.

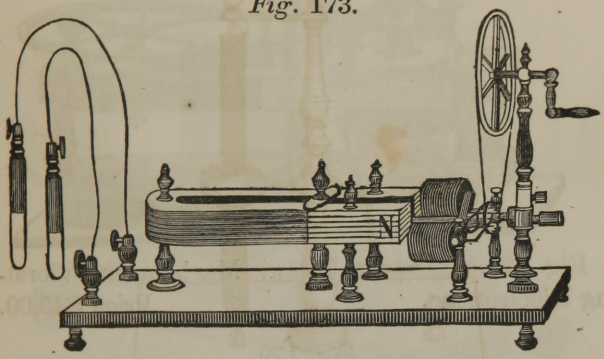


Fig. 173. Magneto-Electric Machine.
Price $30. to 35.00.

Fig. 174.

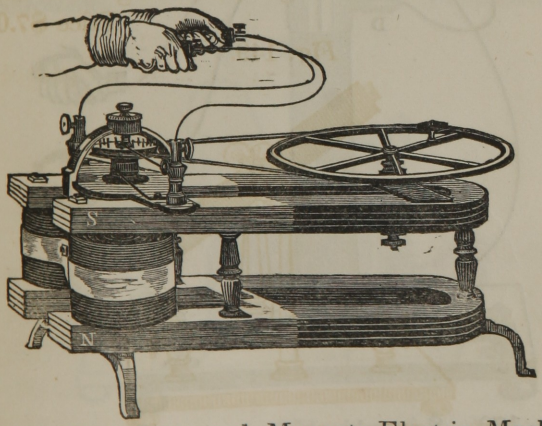


Fig. 174. Improved Magneto-Electric Machine
Price $40. to 45.00.

Fig. 175.

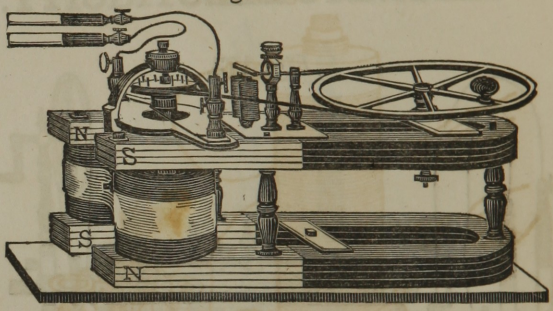


Fig. 175. Magneto-Electric Machine, and Vibrating Electrotome. Price $45.00.

Fig. 179.

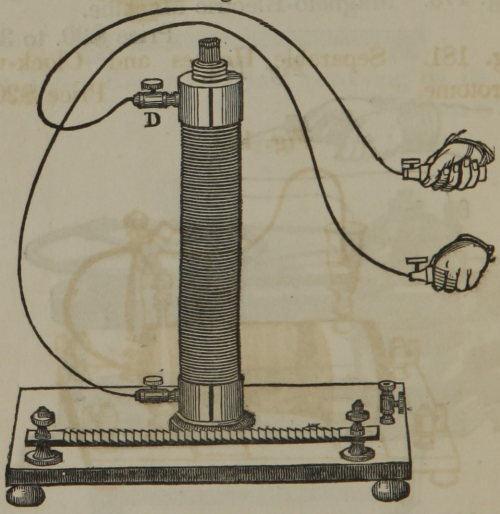


Fig. 179. Separable Helices, (with handles.) Price $10. to 12.00.

Fig. 181.

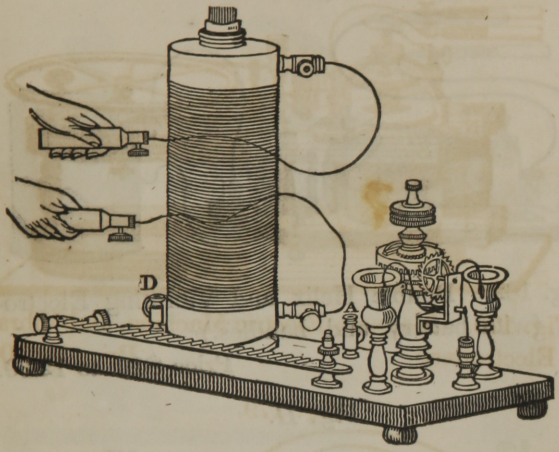


Fig. 181. Separable Helices and Clock-work Electrotome. Price $20.00.

Fig. 183.

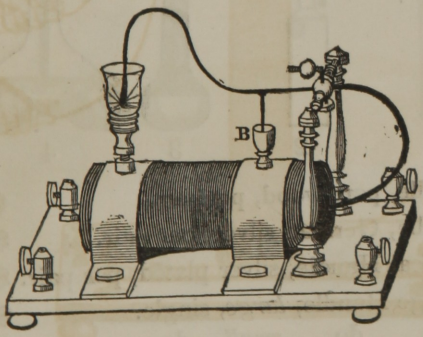


Fig. 183. Compound Magnet and Electrotome. Price $8. to 10.00.

Fig. 182.

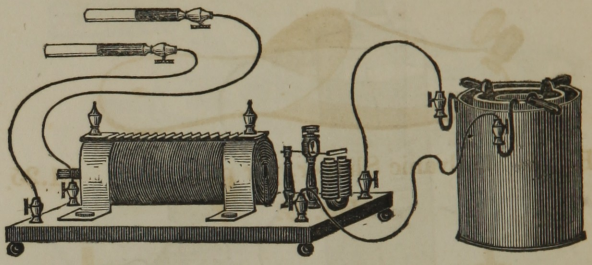


Fig. 182. Double Helix and Vibrating Electrotome, (with battery and handles.)

Price $10. to 12.00.

Fig. H.

1 2 3 4

1.	Handle, part wood, per pair.	$2.00.
2.	Handle, German silver, per pair.	$1.25.
3.	Medical Handle, silver plated, per pair.	$2.00.
4.	Sponge Handle, *large*, single.	$1.00.
	do. do. *small*, do.	75 cts.

Fig. I.

Fig. I. Galvanic Slipper, per pair. $1.25.

Fig. G.

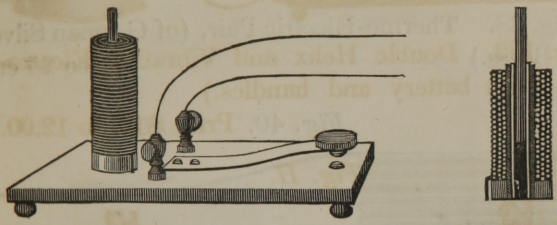


Fig. G. Apparatus for showing the Suspension of an Iron Rod by Repulsion. Price $4.00.

Fig. 184.

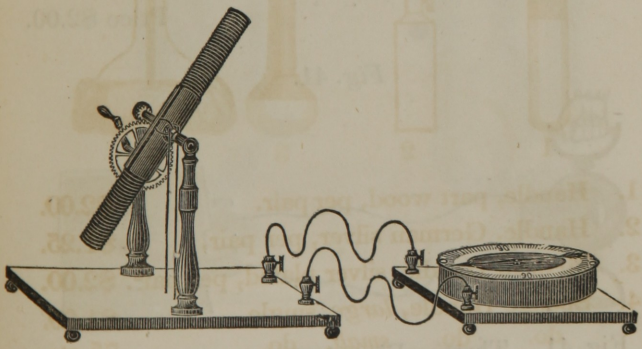


Fig. 184. Apparatus for induction of Electricity by the earth. Price $12.00.

THERMO-ELECTRICITY.

Fig. 38.

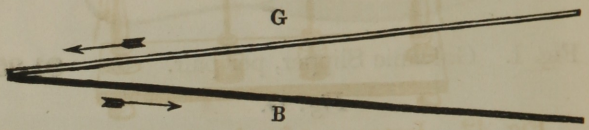


Fig. 38. Thermo-Electric Pair, (of German Silver and Brass.) Price 25 cts.

Fig. 40.

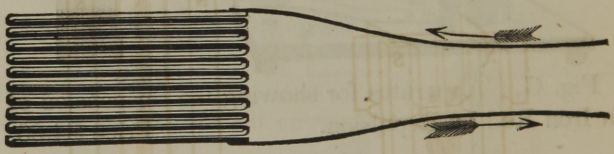


Fig. 40. Thermo-Electric Series, (10 pairs.) Price $2.00.

Fig. 41.

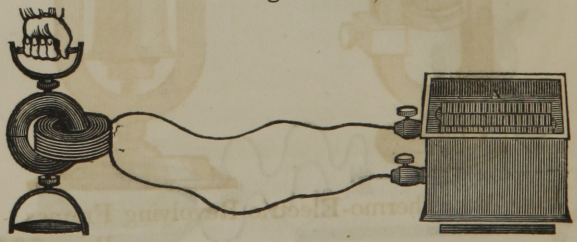


Fig. 41. Thermo-Electric Battery, (60 pairs.) Price $25.00.

Fig. 42.

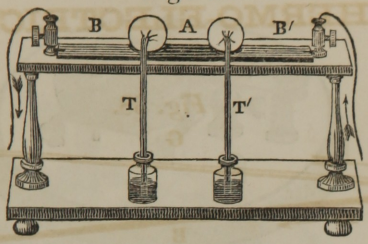


Fig. 42. Instrument for showing the production of cold and heat by Galvanism. Price $3.00.

Fig. 76.

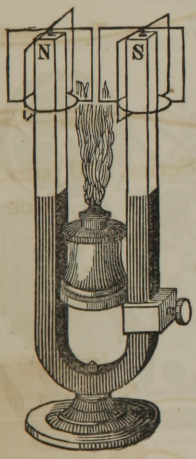


Fig. 77.

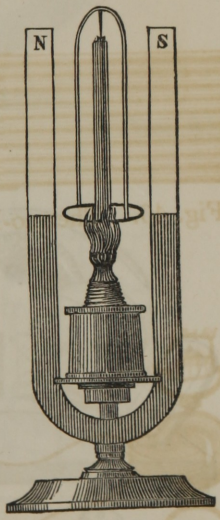


Fig. 76. Thermo-Electric Revolving Frames. Price $6.00.

Fig. 77. Thermo-Electric Arch, between poles of a U-Magnet. Price $4.00.

Fig. F.

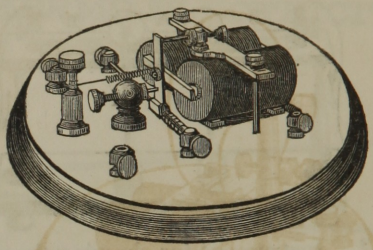


Fig. F. Receiving Magnet for the Telegraph.
Price $12.00.

Fig. G.

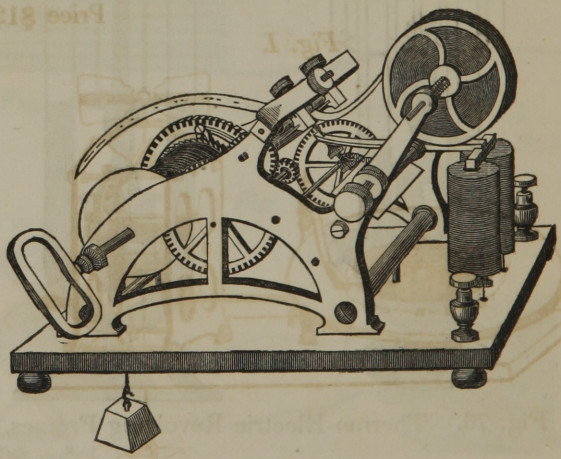


Fig G. Electro-Magnetic Telegraph, with clock work. Price $20 to $50.

Fig. H.

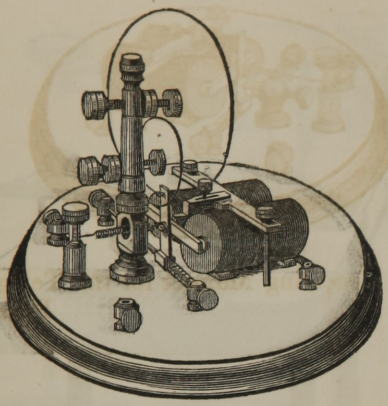


Fig. H. Telegraphic Call or Alarm.

Price $12.

Fig. I.

Fig. I. Bain's decomposing Telegraph.

Price $25 to $100.

Fig. J.

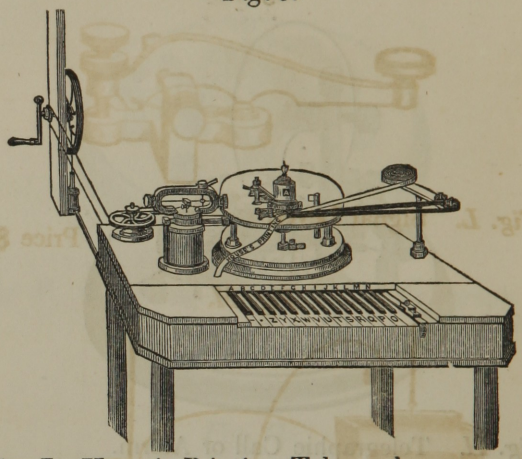


Fig. J. House's Printing Telegraph.

Fig. K.

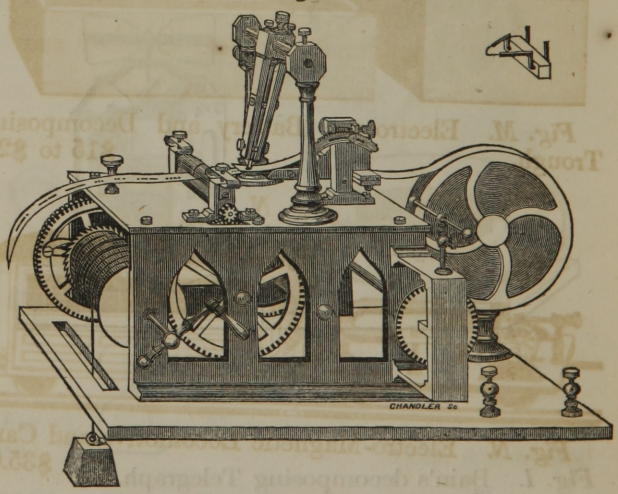


Fig. K. Horn's Igniting Telegraph.

Fig. L.

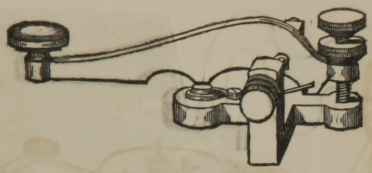


Fig. L. Signal Lever.

Price $4.50.

Fig. M.

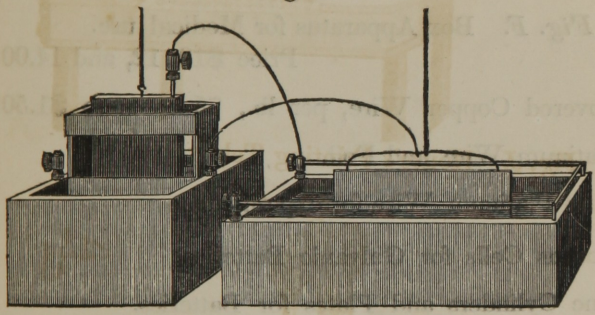


Fig. M. Electrotype Battery and Decomposing Trough. $15 to $25.

Fig. N.

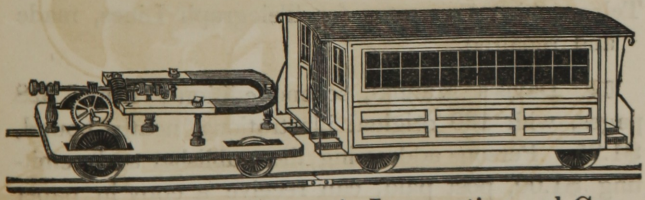


Fig. N. Electro-Magnetic Locomotive and Car. $35.00.

Fig. F.

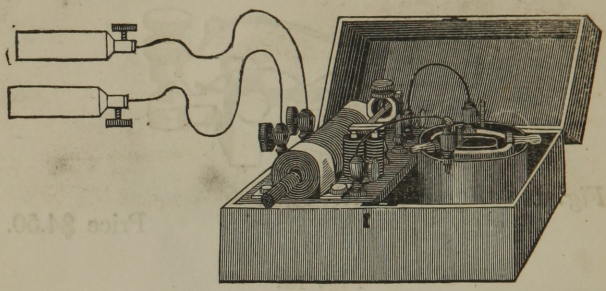


Fig. F. Box Apparatus for Medical use.
Price $10, 12, and 14.00.

Covered Copper Wire, per lb., 75 cents to $1.50.

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Zinc Cylinders and Plates for Batteries.

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Apparatus for Gilding and Silvering, with instructions.

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