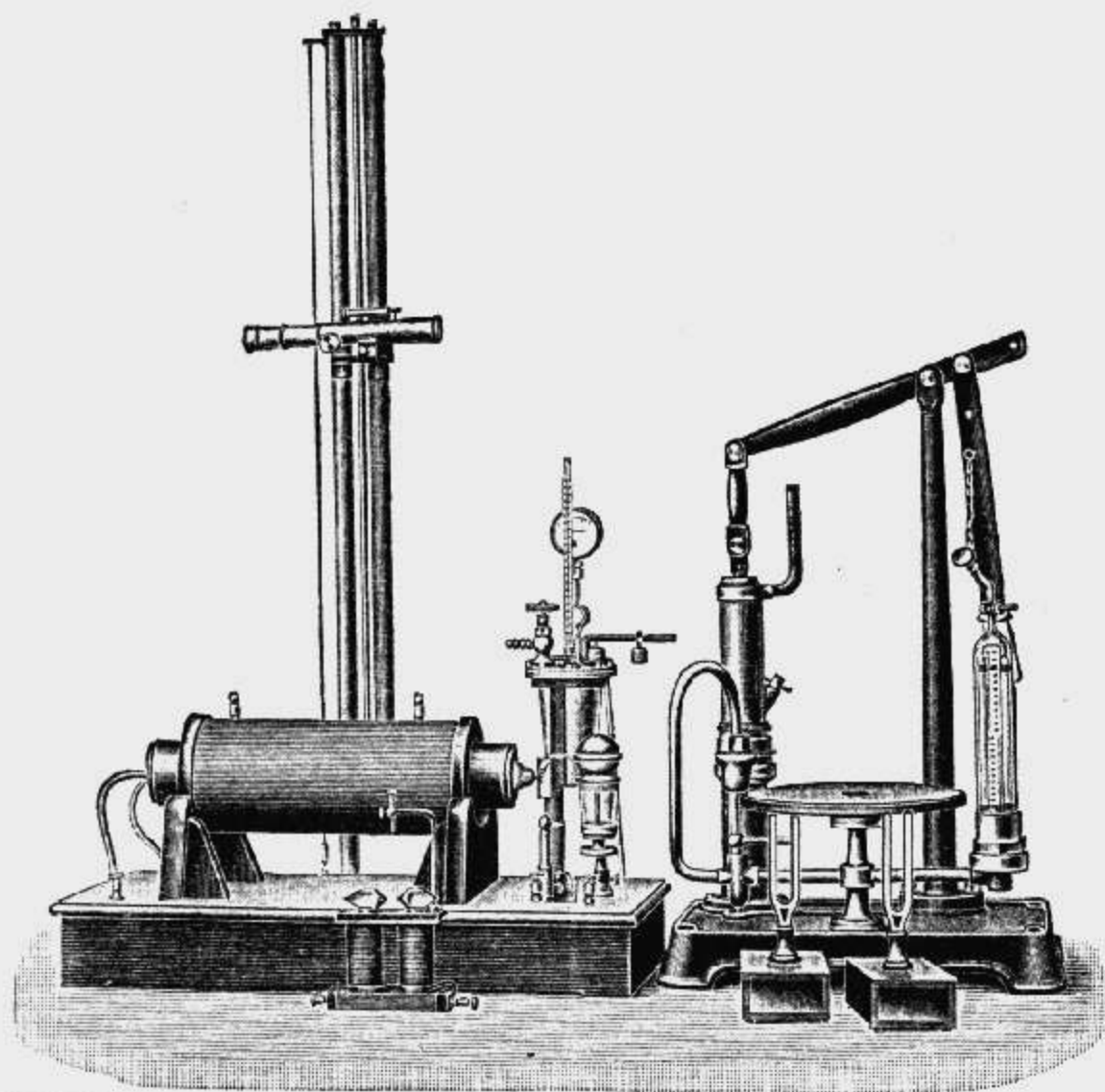
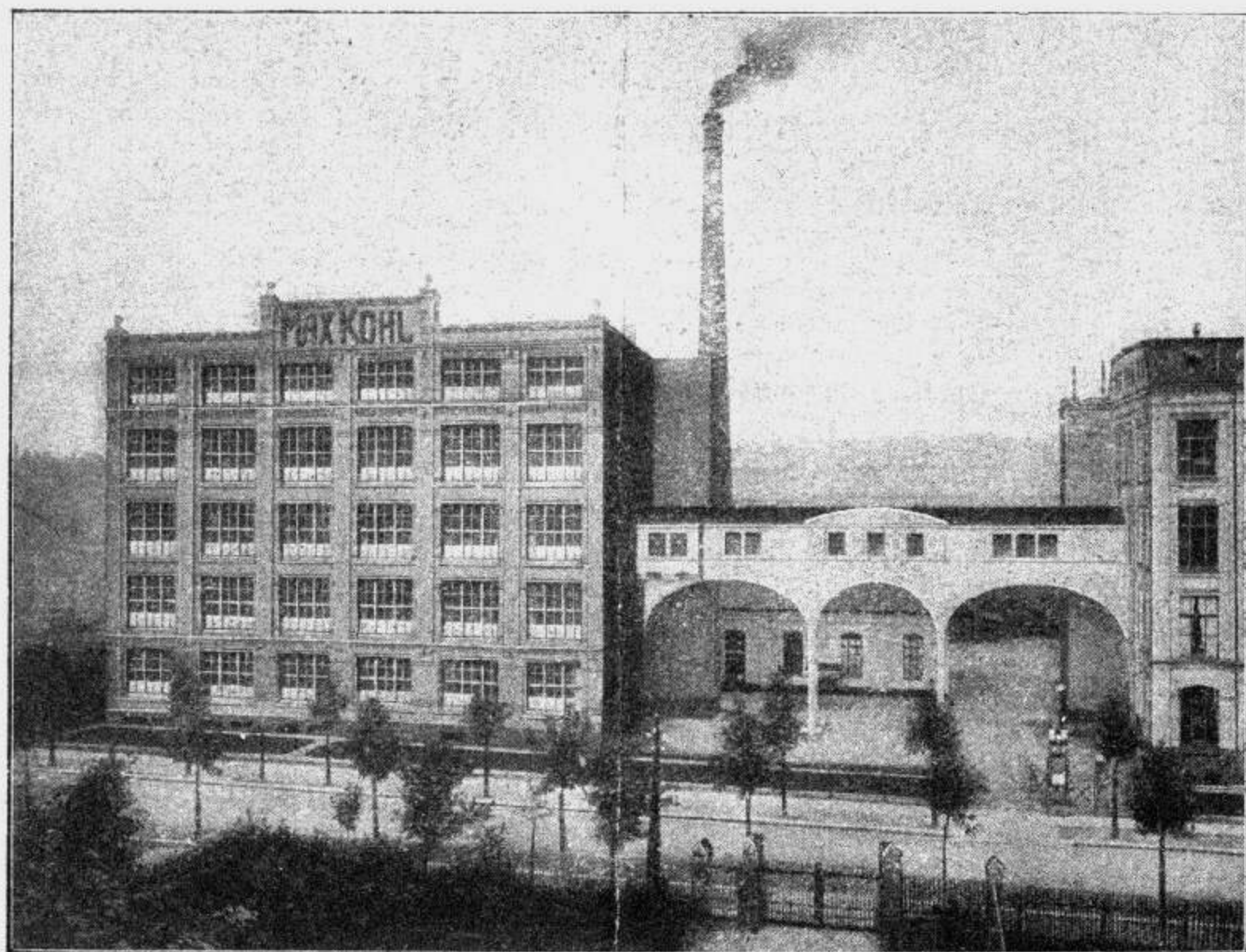
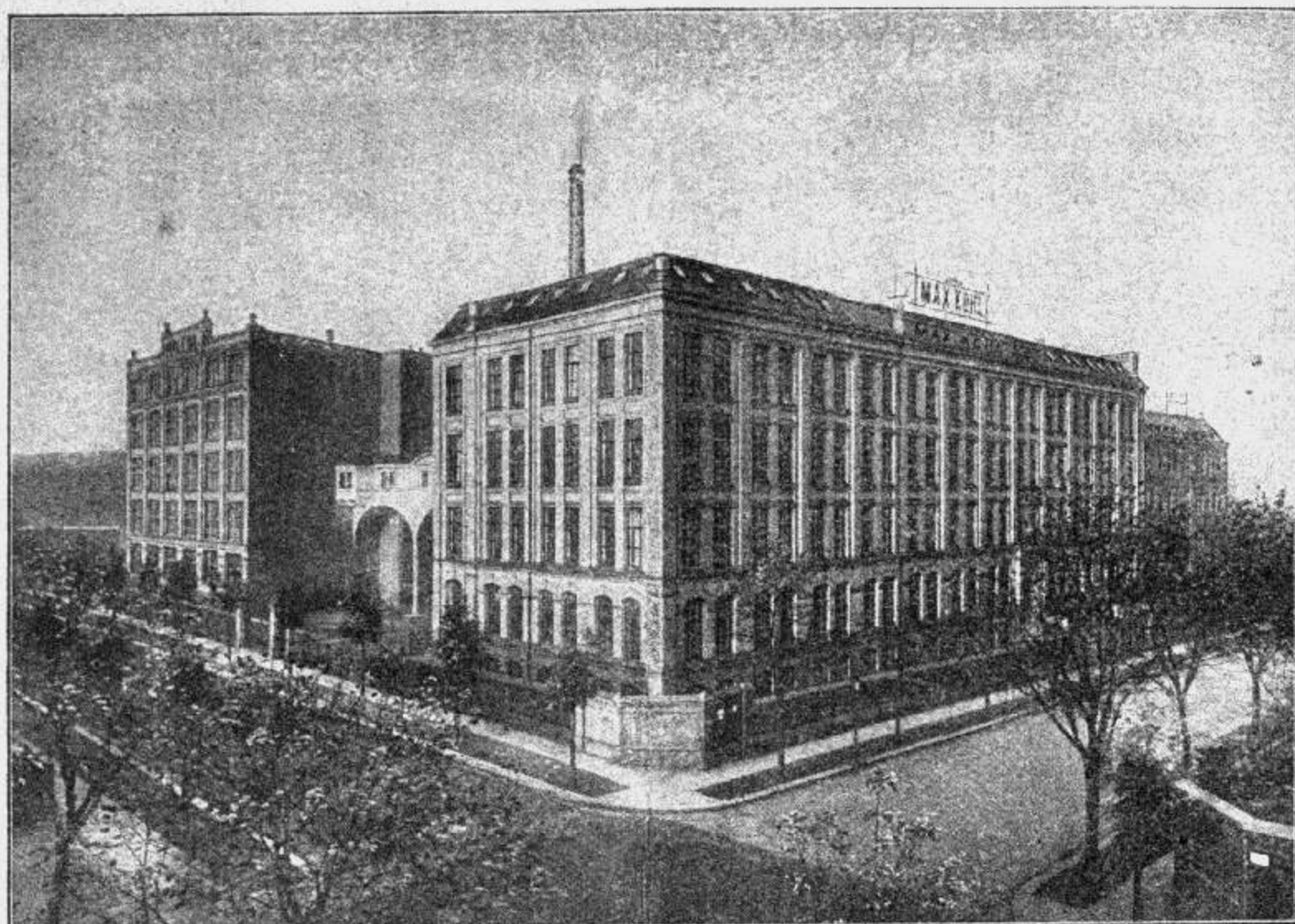


**MAX KOHL**  
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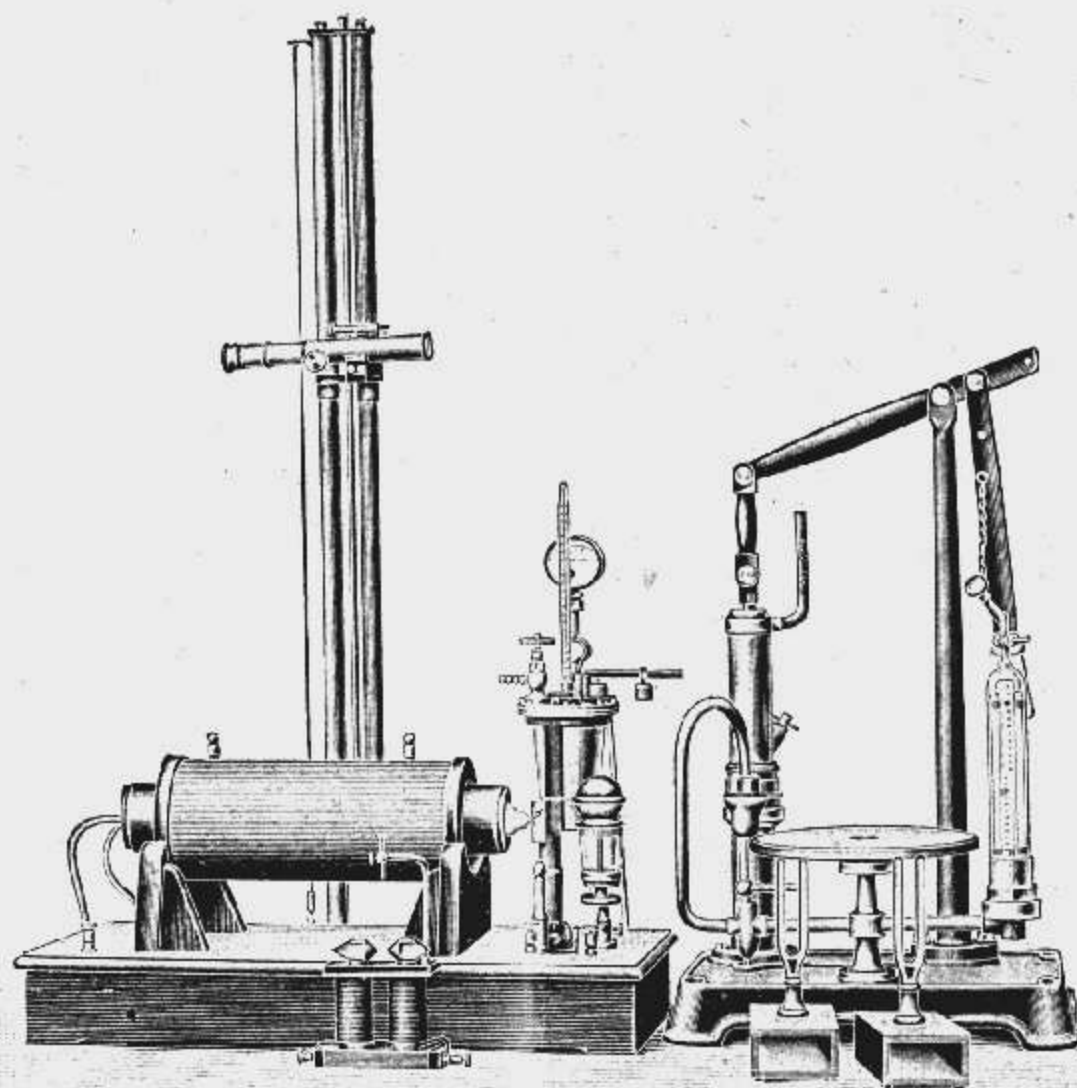


**Physical Apparatus  
in stock**

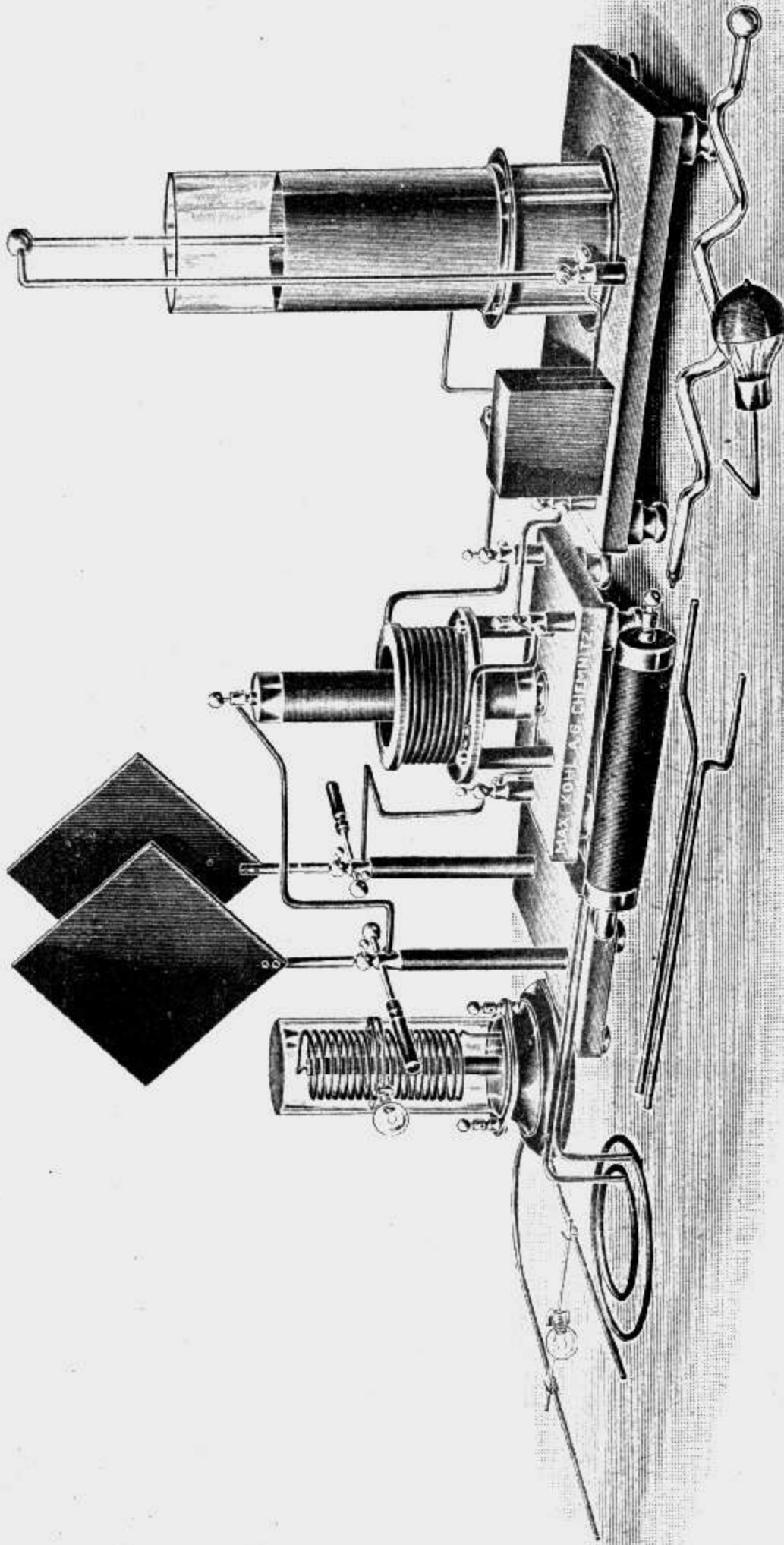
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**MAX KOHL**  
AKTIENGESELLSCHAFT  
**CHEMNITZ - GERMANY**



**Physical Apparatus  
in stock**



63206. 1 : 8.

**Complete Apparatus for the Experiments with Currents of High Frequency and Tension, after Tesla, with Elster & Geitel High Tension Transformer.**

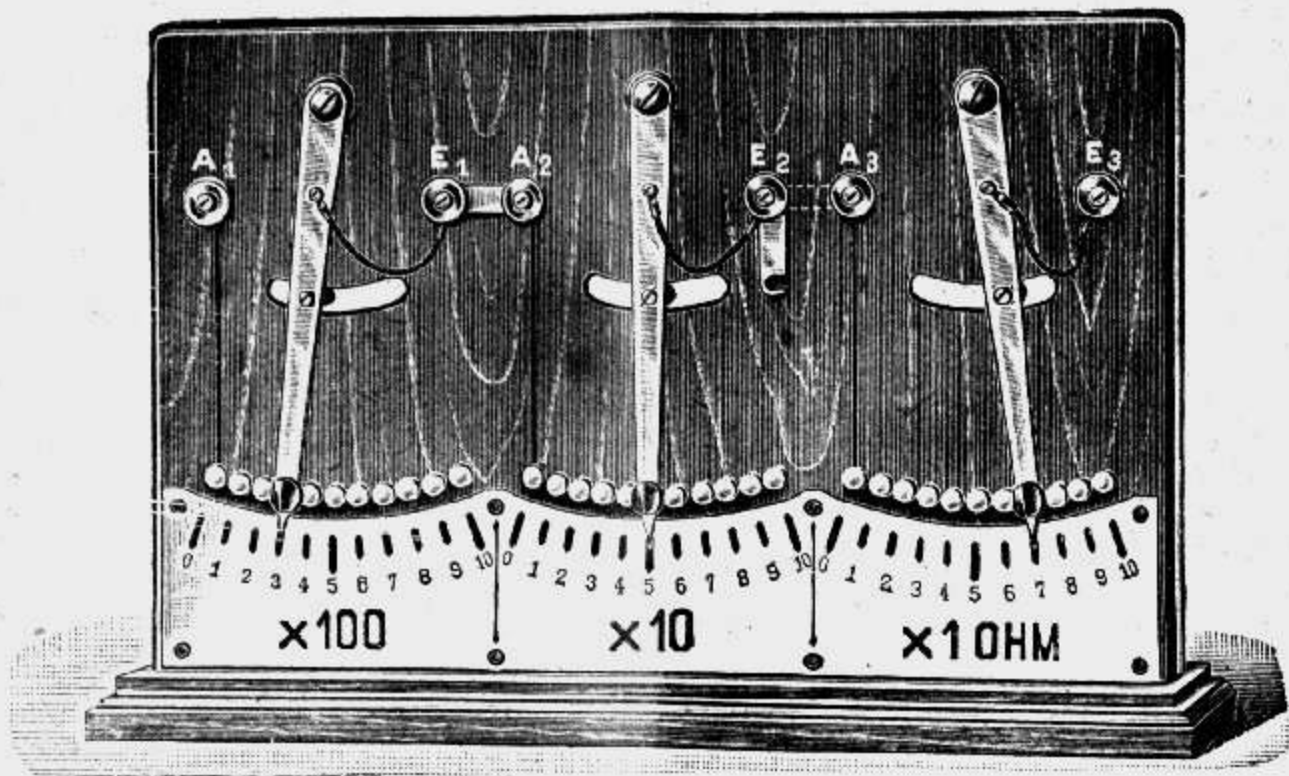
The apparatus consists of: 1 Leyden jar 40 cm high and 1 spark micrometer with zinc points, all mounted on polished oak board; 1 Elster & Geitel high tension transformer, and 1 sparking pillar, 2 induction spirals insulated from each other by a glass cylinder, the secondary spiral carrying a glow lamp, 1 copper stirrup with 1 glow lamp for the impedance phenomenon, 2 brass plates as conductors, 2 circular thick copper wires for concentrating the brush discharges, 2 parallel wires for the same experiment, 1 Tesla lamp with a fine, long filament and an external electrode and with fittings, and 1 electrodeless Tesla tube 50 cm long.

## Preface.

This list is intended to give a general view of the Physical Apparatus which we have generally in stock. We are naturally not able to guarantee that each item therein specified is on hand by the time it is ordered, as daily items are taken from the stock and new ones are coming in. We, however, think the list will prove advantageous in cases where a quick delivery is required. In general any apparatus specified in our catalogue No. 50 vol I—III may be delivered, such as are not in stock may be made in a short time.

The references are taken from our large catalogue which we sent you some time ago and which, we hope, will still be in your possession. Should this not be the case, we shall gladly send you another one on request.

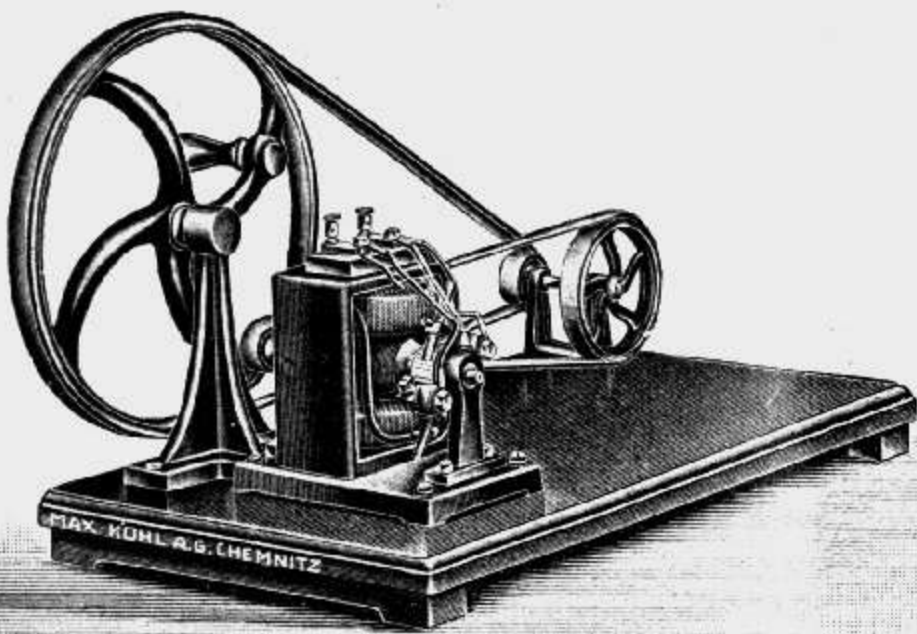
**Max Kohl**  
Aktiengesellschaft.



61879. 1 : 6.

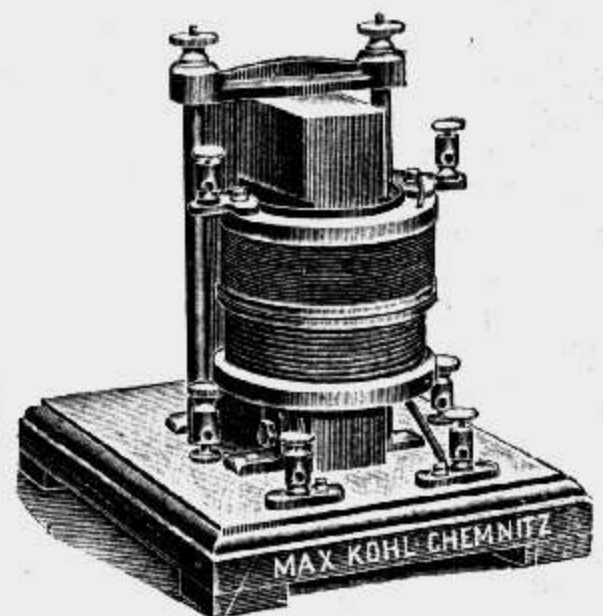
**Switch Contact Rheostat for school use.**

The resistance comprises three decades of  $10 \times 1$ ,  $10 \times 10$  and  $10 \times 100$  ohms, a total of 1100 ohms, which can be used both in series and, by loosening the two connecting bars, separately in single decades for different circuits. The handle, which is manipulated backwards and from the front serves at the same time as a resistance indicator.



62777. 1 : 12.

**Shunt Dynamos for Direct Current** also constructed as Universal Dynamos, with 4 slip rings, for Direct, Alternating and Three-phase Current, with Drum Armature (cf. Gan.-Man. Fig. 806).



62967 B. 1 : 5.

**Alternating Current Transformer (Core Transformer)** for demonstration purposes; It can be taken entirely to pieces.

Price List No. 50, Vol. I.

Equipment of the Class Rooms.

Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
<b>Accessories for the Lecture Tables.</b>					
50 089	Glass Case for erection on the gas draught pipe of the Lecture Table . . . . .	3	50 144	Water Jet Blower . . . . .	3
50 090	Oak Stink Cupboard . . . . .	5	50 145	Pipe Union . . . . .	3
50 091	Collapsible Stink Cupboard . . . . .	2	50 146	Water Jet Blower . . . . .	3
50 095	Draught Pipe for chemical experiments . . . . .	2	50 148	Water Air Pump and Water Jet Blower . . . . .	1
50 096	2 Supports (oak) . . . . .	1	50 160	Large Water Jet Blower . . . . .	1
50 097	Iron Suspension Device . . . . .	2	50 164	Pressure and Vacuum Gauge after Landolt . . . . .	1
50 103	Light Burner with large Shade . . . . .	8	50 164a	idem, with 3-way cock . . . . .	2
50 104	Gas Distributing Device . . . . .	1	50 165	Water Air Pump and Water Jet Blower . . . . .	—
50 105	Shade for electric glow lamps . . . . .	—	<b>Heliostats and divers Apparatus.</b>		
50 111	Table and Microscope Lamp . . . . .	1	50 205	Wall Heliostat . . . . .	4
50 113	Electric Table and Microscopic Lamp . . . . .	2	50 206	idem . . . . .	3
50 114	Table Lamp . . . . .	1	50 207	idem . . . . .	1
50 115	I-Beam with Traveller . . . . .	1	50 208	idem . . . . .	4
50 116	Screw Pulley Blocks . . . . .	3	50 209	Wall Heliostat, for wall to 66 cm thick . . . . .	1
50 118	Wall Bracket . . . . .	6	50 210	Wall Heliostat . . . . .	—
50 119	Suspended Board for the Reflecting Galvanometer . . . . .	—	50 211	Shutter Heliostat . . . . .	—
50 121	7 metres triple flexible cord . . . . .	5	50 212	idem . . . . .	5
50 124	Transparent Galvanometer Scale . . . . .	2	50 213	Clockwork Heliostat after Müller . . . . .	1
50 127	Water Air Pump and Water Jet Blower . . . . .	1	50 214	Special Attachment for screwing on the Shutter . . . . .	3
50 128	idem, with mercury manometer . . . . .	3	50 215	Clockwork Heliostat . . . . .	2
50 129	Water Air Pump . . . . .	6	50 222a	idem, after Fuess . . . . .	—
50 130	idem . . . . .	3	50 226	Universal Motion Mirror . . . . .	4
50 132	idem . . . . .	2	50 226a	Plane Mirror with coarse and fine adjustment . . . . .	1
50 134	Glass Water Air Pump . . . . .	4	50 247	Tool Cupboard with Joiner's Tools . . . . .	2
50 135	idem, without stand . . . . .	1	50 261	12 Cylindrical Wood Chucks . . . . .	1
50 136	Water Air Pump after Bunsen . . . . .	2	50 267	Wall Bracket for carrying the Balance . . . . .	9
50 137	idem, with mercurial pressure gauge . . . . .	1	50 268	Blower . . . . .	—
50 138	Water Air Pump after Stuhl . . . . .	4	50 271	Blower's Table . . . . .	—
50 139	Table for Water Air Pump, 24 cm diameter . . . . .	8	50 292	Laboratory Stool, with fixed seat . . . . .	1
50 140	idem, with barometric gauge . . . . .	18	50 354	Table Draught Pipe with Stand Arrangement . . . . .	4
50 141	idem, 32 cm diameter . . . . .	3	50 368	Electric Lamp for Microscopy . . . . .	6
50 142	idem, 28 cm diameter . . . . .	5	50 394	Geysers, gas heated . . . . .	3
50 143	Rubber hose for above . . . . .	3			

No.	Object	Piece	No.	Object	Piece
50 411	Electric Dark Room Standing Lamp . . . . .	1	50 736	Projection Apparatus . . . . .	—
50 414	idem . . . . .	1	50 753	Tilting Device . . . . .	3
<b>Experimental Switchboards and Experimental Resistances.</b>			50 755	Cooling Chamber . . . . .	1
7 086	Simple Experimental Switchboard	1	50 761	idem . . . . .	2
50 471	Experimental Switchboard to 110—16i volts C. C. . . . .	3	50 767	idem . . . . .	2
50 473	idem, to 220 volts D. C. . . . .	—	50 768	Projection Apparatus, low Type	1
50 485	Experimental Switchboard Type C <sub>2</sub> , Wall Pattern . . . . .	1	50 773	idem . . . . .	2
50 516	Experimental Switchboard with 2 Switch Handles, to 110 volts	2	50 778	idem . . . . .	1
50 517	idem, for 220 volts. . . . .	1	50 790	Projection Apparatus . . . . .	3
50 518	idem smaller, for 110 volts . . . . .	3	50 791	idem . . . . .	1
50 519	Rheostat with 17 contacts, 20 ohms resistance . . . . .	3	50 796	idem . . . . .	—
50 520	Rheostat . . . . .	9	50 841	idem . . . . .	2
50 521	Rheostat with 21 contacts, 30 ohms resistance . . . . .	2	50 844	Skiopticon . . . . .	—
50 524	Sliding Resistance . . . . .	—	50 856	Projection Apparatus on Stand with triple Nernst Lamp . . . . .	1
50 525	idem . . . . .	—	50 858	Projection Apparatus on Stand	2
50 526	idem . . . . .	—	50 876	Fixed Type Serie Resistance . . . . .	2
50 527	idem . . . . .	3	50 878	Switchboard . . . . .	8
50 547	Carbon Resistance after Gross	1	50 890	Projector Arc Lamp, for hand regulation . . . . .	3
50 556	Gasoline Generator . . . . .	—	50 892	idem . . . . .	—
<b>Projection Apparatus and Accessories.</b>			50 922	6 Cored Carbons filled with Salts . . . . .	5
50 735	Projection Apparatus with Arc Lamp for hand regulation. . . . .	2	50 923	Nernst Projection Lamp . . . . .	1
			50 936	Limelight Burner . . . . .	—
			50 944	Limelight Burner for Ether and Oxygen . . . . .	1
			50 951	Foot Board for Oxygen cylinders	1
			50 960	Retort for generating Oxygen	3
			50 961	idem, of copper . . . . .	2
			50 974	Slider with stand . . . . .	12
			50 975	idem . . . . .	4
			50 976	Cooling Tank . . . . .	1
			50 977	idem . . . . .	3
			50 978	Universal Stand. . . . .	9
			50 979	Bi-concave Lens for condensers 102 mm diameter . . . . .	12
			50 980	idem, 122 mm diameter. . . . .	6
			50 981	Bi-concave Lens for 152 mm diameter . . . . .	4
			50 982	Collimating Lens . . . . .	4
			50 983	Diaphragmic Disc . . . . .	6
			50 984	Iris Diaphragm . . . . .	2
			50 985	Adjustable Slit . . . . .	2
			50 986	idem, adjustable by micrometer screw motion . . . . .	6
			50 987	Adjustable Slit with Diaphragmic Disc . . . . .	19

Max Kohl A. G. in Chemnitz.

50 735 1:16



Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
50 987a	Adjustable Slit with micrometer screw . . . . .	—	51 063	Other Collection of 50 preparations	2
50 988	Adjustable Slit . . . . .	4	51 064	Projection Chromoscope after Ives. . . . .	1
50 988a	idem, with Iris Diaphragm . .	2	51 065	Photographs for chromoscope No. 51064 . . . . .	5
50 989	Undulating Slit . . . . .	1	51 067	Cinematograph . . . . .	1
50 990	Row of holes . . . . .	2	51 074	Polarisation Apparatus . . . .	—
50 991	Diaphragmic Disc . . . . .	4	<b>Separate Pamphlet.</b>		
50 992	idem . . . . .	1	9 510	Kohl's Megadiascope, small Modell	2
50 994	Stand for Projection Lanterns	1	9 525	Objective Holder . . . . .	1
50 995	idem . . . . .	1	9 531	Projection Microscope . . . . .	3
50 998	Travelling Table for Projection Apparatus . . . . .	1	9 532	Ocular Tube . . . . .	—
51 003	Small Transparent Projection Screen . . . . .	8	9 536	Insertion Tubes for the objectives . . . . .	—
51 006	Projection Screen with Rolling-up Device, Size m 2.5 × 3 . . . . .	—	9 539	Box for storing the Projection Microscope . . . . .	1
51 007	idem, Size m 3 × 3 . . . . .	2	9 544	Above Microscope Stand, with folding condensers . . . . .	1
51 008	idem, Size m 3.5 × 3.5 . . . . .	1	9 547	Arrangement for permitting of the microscope being placed higher on the optical bench	2
51 013	Projection Screen with Metallic Coating, Size 3 × 3 meter . .	1	9 550	Small reversing prism . . . . .	1
51 033	Apparatus for Projecting Horizontal Objects . . . . .	1	9 551	Adjustable slit with micrometer screw . . . . .	3
51 039	idem . . . . .	1	9 552	1 Collimator lens . . . . .	5
51 040	Reflecting Prism, 45 × 45 mm	4	9 565	1 Direct vision prism . . . . .	1
51 041	Reflecting Prism . . . . .	1	9 568	Bi-concave lens with diaphragm and Holder . . . . .	5
51 042	idem, 70 × 70 mm . . . . .	4	9 570	Rotary object holder . . . . .	—
51 043	Reflecting Prism . . . . .	2	9 575	2 Bearings for the nicols . . . .	—
51 045	Megascope for Projecting opaque objects, simple design . . . . .	2	9 584	Observing tube . . . . .	3
51 046	Megascope . . . . .	2	9 614	Diaphragm, with fine aperture	7
51 047	Projection Microscope for Projecting Microscopical Preparations . . . . .	6	9 623	Switchboard for connecting the Megadiascope with the wall, for 30 amperes . . . . .	1
51 043	Megascope for Projecting opaque objects, large Model . . . . .	5	9 641	Rheostat, for placing on the floor . . . . .	1
51 050	Objective . . . . .	—	9 649	Water Inlet and Waste . . . . .	3
51 058	Projecting Microscope . . . . .	1			
51 059	2 Nicol Prisms . . . . .	1			
51 060	Complete Set of Accessories . .	1			
51 062	Collection of Microscopical Preparations for the School . .	2			

## Price List No. 50, Vols. II and III.

## Physical Apparatus.

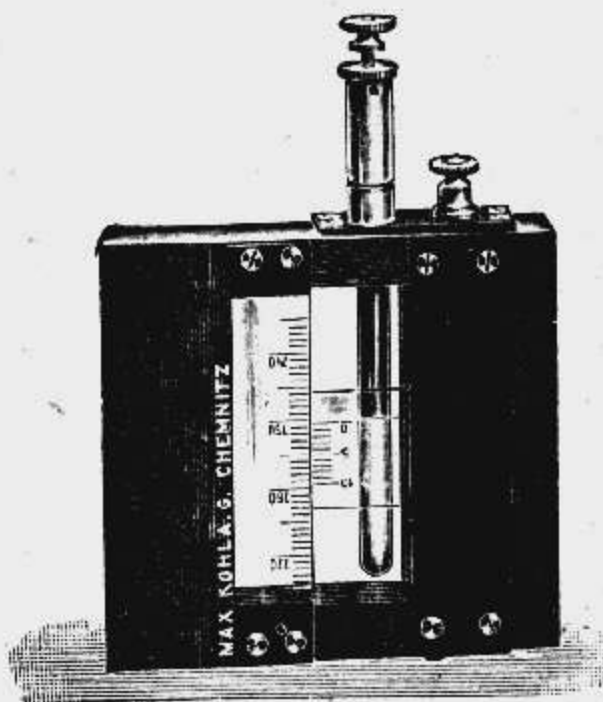
No.	Object	Piece	No.	Object	Piece
<b>Apparatus, Supplies and Materials for General Use.</b>			<b>51 128</b>	Laboratory Stand . . . . .	<b>3</b>
			<b>51 129</b>	idem, free from iron . . . . .	—
			<b>51 131</b>	Gauss Stand, simpler. . . . .	<b>4</b>
<b>51 100</b>	Physical Work Stand after Edelmann, of iron. . . . .	<b>2</b>	<b>51 132</b>	Tables for setting up apparatus	<b>16</b>
<b>51 101</b>	idem, of Brass . . . . .	<b>4</b>	<b>51 133</b>	idem . . . . .	<b>19</b>
<b>51 102</b>	idem, of Brass . . . . .	<b>5</b>	<b>51 134</b>	idem . . . . .	<b>27</b>
<b>51 103,1</b>	2 Glass Tubes . . . . .	<b>2</b>	<b>51 135</b>	idem, iron-free . . . . .	<b>11</b>
<b>51 103,2</b>	6 Carbon Rods for demonstrating the electric arc . . . . .	<b>2</b>	<b>51 136</b>	idem . . . . .	<b>7</b>
<b>51 103,3</b>	The stand, assembled as a Henley discharger serves for the ignition of gun-cotton . . . . .	<b>2</b>	<b>51 137</b>	idem . . . . .	<b>7</b>
			<b>51 138</b>	idem, with double extension. . . . .	<b>3</b>
<b>51 103,4</b>	Rogets Spiral. . . . .	<b>1</b>	<b>51 139</b>	idem . . . . .	<b>5</b>
<b>51 103,5</b>	Reading Telescope. . . . .	<b>1</b>	<b>51 140</b>	idem . . . . .	<b>6</b>
<b>51 103,6</b>	Glass Funnel . . . . .	<b>2</b>	<b>51 143</b>	Levelling Board. . . . .	<b>1</b>
<b>51 103,7</b>	Glass Vessel . . . . .	<b>2</b>	<b>51 144</b>	idem . . . . .	—
<b>51 103,8</b>	Scale for galvanometer readings	<b>2</b>	<b>51 145</b>	idem, with micrometer adjustment	<b>1</b>
<b>51 103,9</b>	4 Lenses, 2 diaphragms, etc. . . . .	<b>1</b>	<b>51 146</b>	Parallelepipedic Wood Blocks . . . . .	<b>4</b>
<b>51 103,10</b>	Lamp, slit diaphragm, etc. . . . .	<b>2</b>	<b>51 147</b>	Wood Supports . . . . .	<b>18</b>
<b>51 104</b>	Universal Stand after Bunsen . . . . .	<b>12</b>	<b>51 148</b>	2 Support Boxes with hole for gripping . . . . .	<b>2</b>
<b>51 104a</b>	Bunsen Burner for above . . . . .	<b>3</b>	<b>51 149</b>	1 Set of thin wood wedges . . . . .	<b>10</b>
<b>51 105</b>	Universal Double Socket . . . . .	<b>22</b>	<b>51 150</b>	4 Wide wood wedges . . . . .	<b>9</b>
<b>51 105a</b>	Westien Universal Clamp . . . . .	<b>10</b>	<b>51 153</b>	Mirror, on stand . . . . .	<b>4</b>
<b>51 106</b>	Heavy Iron Tripod. . . . .	<b>8</b>	<b>51 154</b>	Flexible Leads, length 60 cm	<b>6</b>
<b>51 107</b>	Bunsen Universal Stand, light construction . . . . .	<b>23</b>	<b>51 155</b>	Flexible Leads, Cross-section, sq. mm 2.5 . . . . .	<b>6</b>
<b>51 108</b>	Precision Work Stand after Weinhold . . . . .	<b>3</b>	<b>51 156</b>	idem, Cross-section, sq. mm 2.5	<b>3</b>
<b>51 110</b>	Retort Holder. . . . .	<b>6</b>	<b>51 157</b>	idem, Cross-section, sq. mm 2.5	<b>2</b>
<b>51 111</b>	Filter Stand, iron . . . . .	<b>1</b>	<b>51 158</b>	1 Set Flexible Leads. . . . .	<b>18</b>
<b>51 112</b>	Boiling Stand, iron . . . . .	<b>6</b>	<b>51 160</b>	Copper Wire, 0.9 mm thick, 10 m	<b>29</b>
<b>51 114</b>	Burette Stand. . . . .	<b>4</b>	<b>51 162</b>	0,5 kg of various copper wire	<b>7</b>
<b>51 116</b>	Burette Holder . . . . .	<b>4</b>	<b>51 163</b>	Set Rubber Tubing . . . . .	<b>10</b>
<b>51 117</b>	idem . . . . .	<b>2</b>	<b>51 167</b>	Bent Brass Tube . . . . .	<b>1</b>
<b>51 118</b>	Burette Stand. . . . .	<b>13</b>	<b>51 168</b>	T-Piece for hose unions. . . . .	<b>2</b>
<b>51 119</b>	Burette Stand for 2 burettes . . . . .	<b>4</b>	<b>51 169</b>	T-piece for hose connections of glass . . . . .	<b>4</b>
<b>51 120</b>	Universal Clamp . . . . .	<b>15</b>	<b>51 170</b>	+ - Piece for hose connections, of brass . . . . .	<b>11</b>
<b>51 121</b>	American Clamps, 10 cm span. . . . .	<b>4</b>	<b>51 171</b>	idem, of glass. . . . .	<b>23</b>
<b>51 122</b>	idem, 15 cm span . . . . .	<b>11</b>	<b>51 172</b>	Cock, of pressed glass . . . . .	<b>10</b>
<b>51 123</b>	idem, 20 cm span . . . . .	<b>7</b>	<b>51 175</b>	Glass Cock with detachable hose-piece . . . . .	<b>1</b>
<b>51 124</b>	Gauss Stand . . . . .	<b>3</b>	<b>51 176</b>	Double Regulating Bock . . . . .	<b>5</b>
<b>51 125</b>	idem, iron parts entirely excluded	—	<b>51 177</b>	Precision Stopcock. . . . .	<b>2</b>
<b>51 126</b>	idem . . . . .	<b>2</b>			

No.	Object	Piece	No.	Object	Piece
51 178	Precision Stopcock. . . . .	2	51 232	Water Bath, of copper. . . . .	4
51 183	Thermo-Regulator for + 20° - 150° C . . . . .	3	51 233	idem, with constant level. . . . .	3
51 184	Bunsen Burner, without tap. . . . .	40	51 234	Evaporation Apparatus. . . . .	1
51 186	idem, with tap . . . . .	17	51 240	Liebig's Coolers. . . . .	—
51 188	Chimney, with holder . . . . .	15	51 242	Sand Baths. . . . .	—
51 189	Annex for carrying small dishes, etc. . . . .	12	51 246	Calibrated Glass Bells . . . . .	1
51 190	Sieve Annex . . . . .	2	51 252	Gasometer after Pepys, 30 l capacity . . . . .	—
51 191	Crown Piece . . . . .	8	51 253	idem, 50 l capacity . . . . .	1
51 192	Slit Annex . . . . .	2	51 256	Gasometer of glass, 15 l capacity	2
51 195	Universal Gas Burner after Teclu	3	51 257	Gasometer of glass, 25 l capacity	3
51 195a	Universal Gas Burner . . . . .	4	51 258	Bell Gasometer . . . . .	1
51 195b	idem . . . . .	8	51 271	Aspirator, of sheet zinc . . . . .	3
51 195c	idem . . . . .	6	51 272	Aspirator . . . . .	1
51 195d	idem (star-shaped). . . . .	1	51 273	Aspirator, with 2 vessels, 5 l content . . . . .	5
51 195e	idem (Chimney with holder) . . . . .	8	51 274	idem, 10 l content. . . . .	1
51 196	Universal Gas Burner after Teclu smaller . . . . .	13	51 278	Gas Generating Apparatus . . . . .	1
51 196a	mushroom shaped burner . . . . .	9	51 279	idem . . . . .	2
51 196b	cross-slot attachment . . . . .	15	51 284	Hydrogen Generating Apparatus	2
51 196c	slot attachment. . . . .	20	51 285	Weinhold's Steam Boiler . . . . .	4
51 196d	star-shaped attachment . . . . .	7	51 286	American Freezer . . . . .	3
51 196e	chimney with holder . . . . .	9	51 287	Ice Chopper for above . . . . .	7
51 199	Gas Burner, triple-jet . . . . .	—	51 288	Ice Machine after Liebreich. . . . .	1
51 201	Gas Burner . . . . .	3	51 290	Vessel for preserving the ice blocks . . . . .	2
51 203	Blast Burner for gas. . . . .	6	51 291	idem . . . . .	4
51 205	idem . . . . .	3	51 293	Mercury Board, can be used as a tray. . . . .	12
51 208	Spirit Lamp, of sheet brass, 75 ccm capacity. . . . .	3	51 294	Mercury Box, capacity 1 kg. . . . .	3
51 210	idem, 150 ccm capacity. . . . .	4	51 295	idem, 3 kg capacity . . . . .	2
51 211	Spirit Lamp, Capacity 200 ccm	15	51 296	idem, 5 kg capacity . . . . .	—
51 212	Spirit Lamp of sheet brass, 75 ccm capacity . . . . .	7	51 297	Mercury Box, with steel tap, 1 kg capacity . . . . .	5
51 213	idem, 150 ccm capacity . . . . .	3	51 298	idem, 3 kg capacity . . . . .	3
51 214	Spirit Bunsen Burner . . . . .	3	51 299	idem, 5 kg capacity . . . . .	4
51 216	idem, larger . . . . .	1	51 300	Mercury Dropping Vessel . . . . .	2
51 220	Tripod, iron, 100 mm diameter	13	51 301	Mercury Capillary Dropper . . . . .	5
51 221	idem, 120 mm diameter . . . . .	23	51 302	Mercury Trap. . . . .	3
51 222	idem, 150 mm diameter. . . . .	19	51 303	Mercury Tongs . . . . .	9
51 223	Tripod with 2 inset plates . . . . .	6	51 304	Mercury Press . . . . .	2
51 224	Wire Triangle . . . . .	28	51 305	Tweezers. . . . .	25
51 225	idem, covered with small clay tube . . . . .	36	51 307	Tweezers of brass. . . . .	—
51 226	Wire Net, of iron . . . . .	10	51 308	Crucible Tongs, iron, lacquered	2
51 227	idem, of brass . . . . .	40	51 309	idem, of iron, polished . . . . .	9
51 228	Wire Nets, of asbestos wire . . . . .	17	51 310	idem, of German silver. . . . .	34
51 231	Asbestos Dishes, diameter 15 cm	1			

No.	Object	Piece	No.	Object	Piece
51 311	Spatulas, Length 12 cm . . . . .	2	51 428	10 mm Rules, of thin cardboard	10
51 312	idem, Length 21 cm . . . . .	—	51 429	idem, of wood . . . . .	1
51 313	idem, Length 29 cm . . . . .	2	51 431	Prismatic Rule . . . . .	5
51 314	idem, Length 40 cm . . . . .	1	51 432	Metre Rule. . . . .	1
51 319	Phosphorus Spoons, of iron . . . . .	17	51 433	idem . . . . .	9
51 320	Mortar, cast iron, with pestle . . . . .	2	51 434	Ruler . . . . .	4
51 321	Agate Mortar . . . . .	4	51 436	Mirror Rule for the class . . . . .	2
51 324	Blowpipe . . . . .	7	51 437	Steel Ruler, 1 m long (Standard Rule) . . . . .	2
51 325	idem, not collapsible . . . . .	11			
51 326	Cork Borers, brass, 12 in set . . . . .	6	51 442	Carrier . . . . .	2
51 327	idem, brass, 9 in set. . . . .	4	51 443	Demonstration Rule . . . . .	3
51 328	idem, brass, 6 in set. . . . .	10	51 444	Vertical Rule, 1.2 m long. . . . .	2
51 329	Cork Borers . . . . .	1	51 445	idem, 2 metres long . . . . .	3
51 331	Cork Boring Apparatus. . . . .	3	51 447	Simple Vertical Rule . . . . .	—
51 332	idem . . . . .	9	51 448	Vertical Rule for placing on wall	3
51 334	Sharpener for cork borers. . . . .	6	51 451	Tape Measure. . . . .	2
51 335	Cork Press . . . . .	6	51 452	Indicator Cylinder. . . . .	3
51 336	Rubber Stoppers, 16 in set . . . . .	13	51 453	Curvimeter . . . . .	2
51 337	100 Corks . . . . .	3	51 457	Vernier Caliper . . . . .	—
51 338	10 Glass Stoppers . . . . .	1	51 458	Micrometer Gauge . . . . .	35
51 339	Pneumatic Trough for Water . . . . .	2	51 459	idem . . . . .	42
51 344	Base for measuring glasses . . . . .	1	51 460	Small Spherometer. . . . .	9
51 347	Test Glass Stand . . . . .	15	51 461	Spherometer . . . . .	19
51 348	Test Glass Holders . . . . .	64	51 462	idem, with feeler lever . . . . .	2
51 350	Watch Glass Clamps, 1 set . . . . .	15	51 465	Cathetometer . . . . .	2
51 354	Holder for Porcelain Dishes and Crucibles. . . . .	60	51 466	idem . . . . .	7
51 355	Iron Dish, 80 mm diameter. . . . .	13	51 468	Apparatus for Calibrating and Testing Thermometers . . . . .	1
51 356	idem, 100 mm diameter. . . . .	—	51 469	Reading Telescope . . . . .	4
51 357	idem, 150 mm diameter. . . . .	18	51 470	Simple Reading Telescope. . . . .	2
51 409	Set of 3 U-Tubes . . . . .	1	51 476	Reading Device for Thermometers, Burettes etc. . . . .	1
51 412	Pipette . . . . .	7			
51 416	Demonstration Gas Burette after Bunte . . . . .	6			
51 419	Picein after Walter, 200 grams	10			
51 421	Glass Pearls, 1 kg. . . . .	3			
51 422	Set of 7 Glass Plates . . . . .	4			

**Measurement of Lengths,  
Angles, Surfaces and  
Volumes, Dividing Engines,  
Slide Rules.**

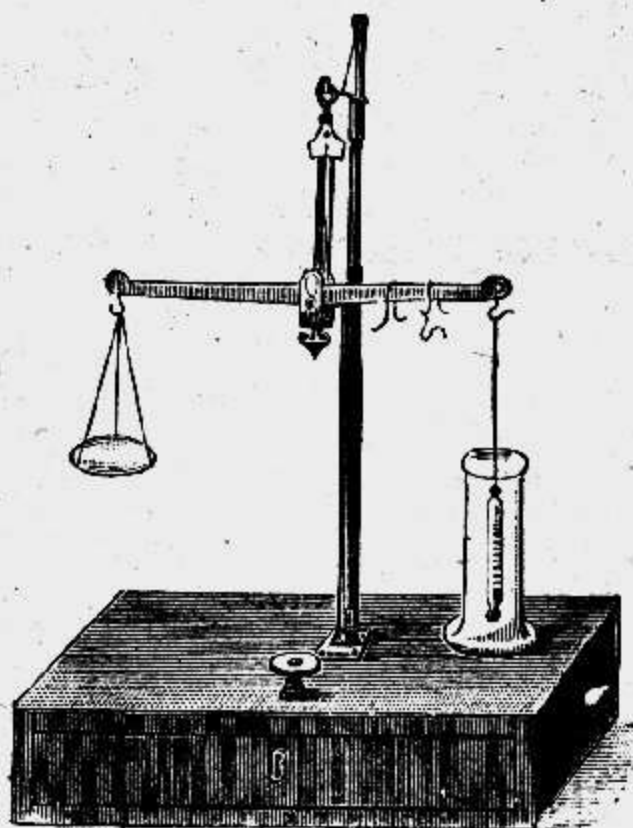
51 423	Linear Vernier Model . . . . .	—
51 424	idem . . . . .	2
51 425	idem . . . . .	4
51 426	idem . . . . .	10
51 427	idem, larger . . . . .	6



51 423. 1:4.

Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
51 477	Magnifying Glass with Cross Wires . . . . .	1	51 571	Tare Balance . . . . .	3
51 488	Circular Vernier Model . . . . .	4	51 573	Single Arm Balance after Westphal . . . . .	7
51 489	idem . . . . .	7			
51 490	idem . . . . .	5			
51 491	Wood Protractor on Stand . . . . .	3			
51 492	Plumb Bob . . . . .	5			
51 493	Plumb Bob with Spirit Level . . . . .	3			
51 494	Simple Gnomon . . . . .	2			
51 495	Surface Goniometer with fixed limbs . . . . .	1			
51 496	idem, smaller, with detachable limbs . . . . .	4			
51 496a	idem, limbs undetachable . . . . .	1			
51 497	Field Goniometer after Ohmann . . . . .	8			
51 498	Plumb Line . . . . .	4			
51 500	Amsler's Planimeter . . . . .	2			
51 501	idem, with micrometer and vernier on the travelling rod . . . . .	2			
51 506	Litre Vessel . . . . .	5			
51 507	idem, cylindrical . . . . .	4			
51 509	Hollow Cube . . . . .	—			
51 510	Vessel of 1 Cubic Inch . . . . .	9			
51 511	Metal Cube with Hollow Cube of 1 cm side . . . . .	5			
51 513	Metal Cube with Hollow Cube of 3 cm side . . . . .	1			
51 514	Cubic Decimetre of Wood . . . . .	12			
<b>Balances and Sets of Weights.</b>					
51 521	Analytical Balance, to carry 5 g . . . . .	1	51 574	Specific Gravity Balance . . . . .	8
51 522	Analytical Balance . . . . .	3	51 575	idem . . . . .	3
51 529	Short Triangular Beam Analytical Balance, to carry 200 g . . . . .	1	51 576	idem . . . . .	—
51 537	Analytical Balance, to carry 200 g . . . . .	1	51 579	Reimann's Hydrometer . . . . .	2
51 541b	Precision Balance . . . . .	1	51 581	Hydrostatic Balance . . . . .	2
51 547	Chemico-Technical Balance . . . . .	1	51 582	idem . . . . .	3
51 549	idem . . . . .	—	51 587	idem . . . . .	2
51 549a	Chemico-Technical Balance, to carry 200 g . . . . .	1	51 588	idem . . . . .	3
51 551	idem, to carry 1000 g . . . . .	2	51 590	Demonstration and Hydrostatic Balance . . . . .	3
51 569a	Mohr's Pillar Tare Balance, to carry 0,5 kg . . . . .	1	51 591	1 Case in which to lay and despatch the balance No. 51590 . . . . .	—
51 570a	idem, to carry 1 kg . . . . .	9	51 592	Arrangement for Hydrostatic Tests . . . . .	3
51 570b	idem, with polished box with 2 drawers . . . . .	1	51 593	Demonstrating and Hydrostatic Balance . . . . .	3
			51 594	New Demonstration Balance . . . . .	2
			51 595	Chemical and Hydrostatic Demonstration Balance . . . . .	2
			51 597	Demonstration Indicating Balance . . . . .	3
			51 598	Simple Accessories for Balance No. 51597 . . . . .	2
			51 600	Solenoid on Stand . . . . .	3
			51 601	Plane Plate and Hollow Hemisphere . . . . .	1
			51 602	Table for Hydrostatic Balances . . . . .	15



51 574. 1 : 8.

No.	Object	Piece	No.	Object	Piece
51 609	Hand Balance with round horn pans . . . . .	2	51 679	Calibrated Iron Weights 1 kg	1
51 610	idem . . . . .	2	51 681	idem, 5 kg . . . . .	1
51 613	Flat Balance . . . . .	3	<b>Measurement of Time.</b>		
51 622	Set Analytical Weights . . . . .	2	51 686	Sundial . . . . .	1
51 630	idem . . . . .	2	51 688	Seconds Watch (Stop Watch or Chronoscope) . . . . .	19
51 631	Analytical Weights. . . . .	1	51 693	Clock with Half-minute Signal	1
51 637	Rider Weights . . . . .	3	51 694	Clock with Minute Signal . . . . .	1
51 641	Set Precision Weights. . . . .	1	51 695	Compensating Pendulum . . . . .	1
51 649	idem . . . . .	1	51 695a	idem . . . . .	7
51 656	idem . . . . .	7	51 696	idem . . . . .	3
51 657	idem . . . . .	3	51 697	idem, with dial . . . . .	8
51 658	Precision Weights 1—20 g. . . . .	2	51 701	Seconds Pendulum . . . . .	7
51 658a	Set Precision Weights . . . . .	1	51 701a	idem . . . . .	3
51 661	idem . . . . .	4	51 703	Seconds Compensating Pendulum	1
51 661a	Precision Weights, 1—200 g. . . . .	2	51 705	Electric Dial . . . . .	1
51 662	Set Precision Weights . . . . .	1	51 725	Mälzl's Metronome, with Bell . . . . .	20
51 663	idem . . . . .	5	51 725a	idem, without Bell . . . . .	4
51 667	Precision Weights, 1 mg—1 g . . . . .	2	51 726	idem, with bell and Electric Contact . . . . .	3
51 676	Calibrated Iron Weights 100 g	1			
51 677	idem, 200 g . . . . .	2			

### Introduction to Physics and General Mechanics.

51 746	Displacing Cylinder . . . . .	3	51 784	Atwood's Fall Machine with a seconds pendulum . . . . .	2
51 747	Displacing Vessel . . . . .	—	51 787	idem, with friction rollers and seconds pendulum . . . . .	1
51 748	Overflow Vessel . . . . .	1	51 788	Electromagnet Release for the Falling Weights . . . . .	1
51 749	Pycnometer . . . . .	4	51 789	Large Atwood Fall Machine . . . . .	1
51 750	Disc with hole and glass lid . . . . .	4	51 790	Fall Machine mounted in glazed Cupboard . . . . .	1
51 751	Double Bulb on stand . . . . .	13	51 791	Atwood's Fall Machine . . . . .	1
51 752	idem, without stand . . . . .	3	51 792	Fall Apparatus and Seconds Pendulum . . . . .	—
51 760	Inertia Top . . . . .	3	51 793	Fall Apparatus after Kottenbach	2
51 761	Carriage with movable rollers . . . . .	3	51 794	Fall Apparatus for Free Fall after Edelmann . . . . .	—
51 764	Device for proving that an appreciable time is necessary for the change in the condition of motion of a body . . . . .	6	51 795	Tuning Fork Chronograph . . . . .	2
51 765	Device for showing the Inertia of a body in repose . . . . .	7	51 796	Fall Machine . . . . .	1
51 766	Inertia Pendulum . . . . .	6	51 797	Fall Machine after F. C. G. Müller . . . . .	2
51 767	Spiral Spring . . . . .	2	51 798	Fall Machine for Free Fall . . . . .	2
51 768	Dynamic Balance . . . . .	1	51 800	Tension and Acceleration Meter	1
51 769	Work Rail after Maey . . . . .	1	51 801	Poggendorff's Balance . . . . .	4
51 771	Double Gun after Grimsehl . . . . .	2	51 802	Galilei's Inclined Plane . . . . .	6
51 773	Dynamometer after Fischinger . . . . .	—			
51 777	2 Fall Cords after Babinet . . . . .	2			
51 783	Atwood's Fall Machine . . . . .	5			

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No.	Object	Piece	No.	Object	Piece
51 803	Inclined Plane . . . . .	4	51 838	Projectile Apparatus after Löwy	—
51 804	Quadruple Inclined Plane . .	10	51 839	idem, after Hartl . . . . .	3
51 805	Inclined Plane . . . . .	—	51 840	Fall Pistol after Hartl. . . . .	7
51 807	Rail Apparatus (Inclined Plane) after Hoefler . . . . .	4	51 841	Pistol, Target and Stand, with Rubber Ball . . . . .	—
51 809	Apparatus for demonstrating the Fall of a Body through the chord . . . . .	3	51 842	Apparatus after Hagenbach . .	—
51 811	Galilean Escapement Pendulum	1	51 843	idem, with diagrams . . . . .	—
51 812	Centrifugal Pendulum . . . . .	4	51 844	Water Jet Projectile Apparatus	2
51 813	Apparatus for the Parallelo- gram of Path . . . . .	3	51 846	Lantern Slide of the Trajectory of a Krupp 24 cm Gun . . . . .	8
51 814	Apparatus for showing the resultant of 2 Directions . .	5	51 847	Apparatus for showing the Pro- jection Parabola . . . . .	2
51 815	Slab for the Parallelogram of Motions and the projectile path . . . . .	3	51 850	Collection of Apparatus for de- monstrating the Laws of Mechanics . . . . .	4
51 816	Grimsehl's Apparatus . . . . .	1	<b>Mechanics of Solids (Statics and Dynamics).</b>		
51 817	Apparatus for demonstrating the Composition of two Ro- tations . . . . .	—	51 851b	Lever, of aluminium . . . . .	13
51 819	Kinegraph after Engelmeyer . .	2	51 851c <sub>1</sub>	Pulleys, with 1 hook . . . . .	107
51 820	Hartl's Apparatus for recording the Parallelograms of Motion	3	51 851c <sub>2</sub>	idem, with 2 hooks . . . . .	38
51 821	Apparatus for explaining Com- pound Motions . . . . .	6	51 851d <sub>1</sub>	Tackle with aluminium pulleys	28
51 823	Apparatus for demonstrating the Projection Theory . . . . .	2	51 851d <sub>2</sub>	idem . . . . .	11
51 824a	Oak Stand . . . . .	2	51 851e	Power Tackle . . . . .	—
51 824b	2 Rollers on cramps . . . . .	16	51 851f	Differential Tackle . . . . .	43
51 824c	13 Double-hook Weights . . . .	8	51 851g <sub>1</sub>	Arbor Wheel, 90 mm diameter	12
51 825	Parallelograms of pasteboards .	60	51 851g <sub>2</sub>	idem, 120 mm diameter . . . .	14
51 827	Wood Rod . . . . .	1	51 851h	2 Brass Pulleys on iron cramps	—
51 828	1 Set Hooked Weights . . . . .	4	51 851i	3 Brass Pendulums and 1 Wood Pendulum . . . . .	—
51 829	Parallelogram of Forces Appa- ratus . . . . .	—	51 851k	Pendulum of variable length . .	20
51 830	idem, after Bertram . . . . .	5	51 851l	Set of Weights . . . . .	11
51 831	idem . . . . .	7	51 851m	Hook with cramp . . . . .	11
51 832	Parallelogram of Forces Apparatus	6	51 853	Stand with Apparatus for demon- stration the Laws of Mechanics	4
51 832a	Force Table . . . . .	2	51 854	Universal Apparatus for demon- strating the Laws of Mechanics	5
51 833	Model No. 1 after Prof. E. Meyer for combining forces in space	4	51 856	Cycloidal Double Railway . . .	1
51 834	Model No. 21 for the equalisation of rotating Masses after Prof. E. Meyer . . . . .	2	51 857	Demonstration Apparatus for the Statics and Dynamics of Rigid Bodies . . . . .	1
51 834a	idem, smaller . . . . .	2	51 858	Accessories for explaining the Centre of Gravity . . . . .	2
51 835	Grimsehl's Cannon . . . . .	6	51 859	Apparatus for proving the Law of the Inclined Plane . . . . .	2
51 836	Couple of Forces Water Wheel	3			

No.	Object	Piece	No.	Object	Piece
51 860	Inclined Plane . . . . .	5	51 893	Precision Pulleys after F. C. G. Müller . . . . .	5
51 861	idem . . . . .	2	51 894	Tackle Frame . . . . .	4
			51 895	Power Tackle . . . . .	3
			51 896	Tackle with 2 iron blocks . . . . .	5
<p>51 860 1 : 8</p>			51 898	Differential Tackle . . . . .	3
			51 900	Wedge Apparatus . . . . .	9
<p>51 862 idem . . . . . 5</p>			51 901	idem . . . . .	2
			51 863	idem . . . . .	12
<p>51 864 idem . . . . . 4</p>			51 904	27 Double-hook Weights . . . . .	9
			51 866	idem . . . . .	—
<p>51 867 Plate Glass Slab, Sliding Body and light Balance Pan. . . . . —</p>			51 905	Wood Cylinder, with paper surface . . . . .	8
			51 869	Inclined Plane . . . . .	7
<p>51 870 idem . . . . . 8</p>			51 906	Screw Apparatus after Frick . . . . .	4
			51 870a	idem . . . . .	3
<p>51 876 Apparatus for demonstrating the tensive and compressive strain in a solid . . . . . 6</p>			51 907	idem . . . . .	2
			51 877	Apparatus for showing the Invariability of the static momentum . . . . .	—
<p>51 878 Equal-arm Lever . . . . . 28</p>			51 908	idem . . . . .	6
			51 879	idem . . . . .	6
<p>51 880 2 Metal Levers on metal stands . . . . . 4</p>			51 909	Screw Apparatus after Hartl . . . . .	3
			51 882	Metal Lever, in frame . . . . .	5
<p>51 883 Lever Apparatus . . . . . 5</p>			51 910	idem, after Grimsehl . . . . .	3
			51 884	Lever Stand . . . . .	3
<p>51 887 Apparatus for explaining the different Levers and the Balance . . . . . 4</p>			51 911	Equilibrium Apparatus . . . . .	23
			51 888	Angle Lever . . . . .	2
<p>51 889 Lever Apparatus . . . . . 3</p>			51 912	Apparatus for Stable Equilibrium idem . . . . .	1 7
			51 891	Apparatus for the Theory of the Moments of Torsion and the Conditions of Equilibrium . . . . .	1
<p>51 892 Arbor Wheel . . . . . 4</p>			51 913	Apparatus after Bock . . . . .	17
			51 893	Precision Pulleys after F. C. G. Müller . . . . .	5
<p>51 894 Tackle Frame . . . . . 4</p>			51 914	Apparatus after Bock . . . . .	17
			51 895	Power Tackle . . . . .	3
<p>51 896 Tackle with 2 iron blocks . . . . . 5</p>			51 918	Solid and hollow Semi-circle . . . . .	1
			51 898	Differential Tackle . . . . .	3
<p>51 900 Wedge Apparatus . . . . . 9</p>			51 919	Double Cone on Inclined Stand . . . . .	7
			51 901	idem . . . . .	2
<p>51 904 27 Double-hook Weights . . . . . 9</p>			51 920	Rolling Cylinder . . . . .	6
			51 905	Wood Cylinder, with paper surface . . . . .	8
<p>51 906 Screw Apparatus after Frick . . . . . 4</p>			51 921	idem . . . . .	5
			51 907	idem . . . . .	2
<p>51 908 idem . . . . . 6</p>			51 922	Leaning Tower . . . . .	4
			51 909	Screw Apparatus after Hartl . . . . .	3
<p>51 910 idem, after Grimsehl . . . . . 3</p>			51 924	2 Triangles on 1 Stand . . . . .	4
			51 911	Equilibrium Apparatus . . . . .	23
<p>51 912 Apparatus for Stable Equilibrium idem . . . . .</p>			51 925	Equilibrium Figures . . . . .	7
			51 913	Apparatus after Bock . . . . .	17
<p>51 914 Apparatus after Bock . . . . . 17</p>			51 926	idem . . . . .	12
			51 918	Solid and hollow Semi-circle . . . . .	1
<p>51 919 Double Cone on Inclined Stand . . . . . 7</p>			51 927	3 Centre of Gravity Figures . . . . .	2
			51 920	Rolling Cylinder . . . . .	6
<p>51 921 idem . . . . . 5</p>			51 928	Stability Apparatus after Weinhold . . . . .	—
			51 922	Leaning Tower . . . . .	4
<p>51 924 2 Triangles on 1 Stand . . . . . 4</p>			51 929	Board with 3 Prismatic Blocks . . . . .	1
			51 925	Equilibrium Figures . . . . .	7
<p>51 926 idem . . . . . 12</p>			51 931	Stability Prism . . . . .	1
			51 927	3 Centre of Gravity Figures . . . . .	2
<p>51 928 Stability Apparatus after Weinhold . . . . . —</p>			51 932	Lever Stand . . . . .	—
			51 929	Board with 3 Prismatic Blocks . . . . .	1
<p>51 931 Stability Prism . . . . . 1</p>			51 933	Arbor Wheel . . . . .	2
			51 932	Lever Stand . . . . .	—
<p>51 933 Arbor Wheel . . . . . 2</p>			51 935	Model of a Balance Beam . . . . .	1
			51 935	Model of a Balance Beam . . . . .	1
<p>51 935a idem . . . . . 6</p>			51 936	Model of a Roberval Weigh-bridge . . . . .	2
			51 936	Model of a Roberval Weigh-bridge . . . . .	2
<p>51 936 Model of a Roberval Weigh-bridge . . . . . 2</p>			51 937	Model of a Roman Balance . . . . .	5
			51 937	Model of a Roman Balance . . . . .	5
<p>51 937 Model of a Roman Balance . . . . . 5</p>			51 938	Roman Balance . . . . .	5
			51 938	Roman Balance . . . . .	5
<p>51 938 Roman Balance . . . . . 5</p>			51 939	Model of a Platform Weighing Machine . . . . .	7
			51 939	Model of a Platform Weighing Machine . . . . .	7
<p>51 939 Model of a Platform Weighing Machine . . . . . 7</p>			51 940	idem . . . . .	—
			51 940	idem . . . . .	—
<p>51 940 idem . . . . . —</p>			51 941	idem . . . . .	23
			51 941	idem . . . . .	23
<p>51 941 idem . . . . . 23</p>			51 942	Centrifugal Railway . . . . .	5
			51 942	Centrifugal Railway . . . . .	5
<p>51 942 Centrifugal Railway . . . . . 5</p>			51 943	idem . . . . .	3
			51 943	idem . . . . .	3
<p>51 943 idem . . . . . 3</p>			51 944	Apparatus after Schleiermacher . . . . .	1
			51 944	Apparatus after Schleiermacher . . . . .	1
<p>51 944 Apparatus after Schleiermacher . . . . . 1</p>			51 946	Regulator Model after Prof. Eugen Meyer . . . . .	2
			51 946	Regulator Model after Prof. Eugen Meyer . . . . .	2

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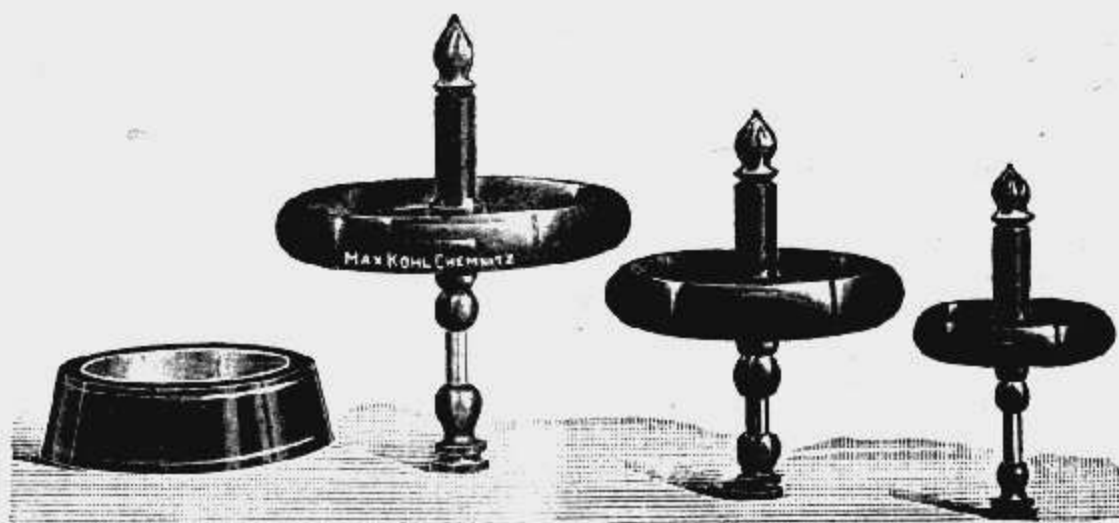


Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
51 948	Central Force Electromagnet and Iron Ball . . . . .	4	52 003	Model of Ventilator . . . . .	3
8 952	Whirling Tables with D. C. Electric Motor Drive, 110 volts	2	52 006	Wind Vane and Wind Wheel . . . . .	1
8 953	idem, 220 volts . . . . .	2	52 008	Apparatus for Free Axes . . . . .	5
8 961	Large Whirling Tables with D. C. Electric Motor Drive, 110 volts . . . . .	2	52 009	Bohnenberger's Machine . . . . .	12
8 963	idem, 220 volts . . . . .	3	52 010	Apparatus after Sire . . . . .	3
51 949	Whirling Table . . . . .	2	52 012	Ring with Hook . . . . .	13
51 950	idem, with 3-stage Pulley . . . . .	6	52 013	Rod with Hook . . . . .	5
51 959	Large Whirling Table . . . . .	—	52 014	Pendulum . . . . .	2
51 960	idem, with wide feet . . . . .	1	52 015	Apparatus after Eisenlohr . . . . .	2
51 969	Cord Gear, for rapidly rotating Colour Disc and the like . . . . .	2	52 016	Pendulum Ball . . . . .	4
51 975	Centrifugal Apparatus . . . . .	11	52 017	Pendulum for Foucault's Experiment . . . . .	3
51 976	2 Cylinders of Wood and Cork	16	52 018	5 Stroboscopic Discs . . . . .	7
51 977	2 Brass Balls . . . . .	24	52 019	Stroboscopic Cylinder . . . . .	7
51 978	Cup and Ball after August . . . . .	—	52 020	Strips alone . . . . .	12
51 979	Cup and Ball . . . . .	5	52 021	Siren-Disc . . . . .	3
51 980	Whirling Apparatus with 8 Spherical Pendulums . . . . .	5	52 022	idem . . . . .	10
51 981	Pendulum Race . . . . .	3	52 023	idem . . . . .	2
51 982	Watt's Pendulum . . . . .	6	52 024	Wave Siren-Disc after König . . . . .	4
51 983	Watt's Ball Governor . . . . .	4	52 026	Oppelt's Siren-Disc . . . . .	2
51 984	Angle Lever Apparatus . . . . .	6	52 027	Appunn's Siren-Disc . . . . .	—
51 985	Spring Balance . . . . .	6	52 028	Savart's Toothed Wheels of zinc	8
51 986	idem, after Hartl . . . . .	3	52 029	idem, with brass wheels . . . . .	3
51 987	Centrifugal Balance . . . . .	4	52 030	Apparatus for proving Doppler's principle . . . . .	3
51 988	idem . . . . .	4	52 031	Rotating Mirror Box . . . . .	2
51 990	Flattening Ring . . . . .	41	52 032	Rotating Mirror . . . . .	6
51 992	Apparatus for showing the oblateness of a sphere of oil . . . . .	4	52 033	Gas Flame Manometer . . . . .	1
51 993	Glass Vessel for Mercury and Coloured Water . . . . .	10	52 034	1 Set Colour Discs . . . . .	3
51 994	Glass Balloon . . . . .	24	52 035	Colour Disc with the 7 spectrum colours . . . . .	—
51 995	Cylindrical Attachment . . . . .	5	52 037	Disc Apparatus . . . . .	1
51 996	Angle with 2 obliquely placed tubes . . . . .	1	52 038	Coloured Convex Surface . . . . .	4
51 997	Siphon, with marking rings . . . . .	4	52 039	14 Colour Cylinders after Kolbe	14
51 998	Attachment with 3 disconnected tubes . . . . .	7	52 040	Wood Cone with pins . . . . .	4
51 999	Apparatus for clearing cloudy liquids . . . . .	2	52 041	Screen of Bristol Board . . . . .	4
52 000	Model of a Draining and Drying Apparatus . . . . .	5	52 043	Oscillating Prism, 60 × 30 mm	3
52 001	idem, after Hartl . . . . .	—	52 044	idem, 70 × 35 mm . . . . .	3
52 002	idem . . . . .	1	52 045	Glass Globe with a solution of Glycerine and Soap . . . . .	2
			52 046	Phosphroscope . . . . .	3
			52 047	Polarisation Apparatus . . . . .	2
			52 048	Apparatus for boiling by friction water, alcohol or ether . . . . .	12
			52 049	idem . . . . .	33
			52 050	Apparatus after Puluj . . . . .	—
			52 053	Wood Stand . . . . .	6

No.	Object	Piece	No.	Object	Piece
52 054	Spring Balance . . . . .	—	52 076	Apparatus for the Surface Principle . . . . .	4
52 056	Apparatus for explaining the theory of cyclones . . . . .	1	52 077	Counteraction Apparatus . . . . .	2
52 057	Rotating Device for large Geissler Tubes . . . . .	1	52 078	Schmidt's Top . . . . .	2
52 058	Disc after Poggendorff . . . . .	3	52 079	idem, in ring, with stand. . . . .	5
52 059	Apparatus for Arago's Magnetism of rotation . . . . .	3	52 080	3 Tops of different sizes . . . . .	4
52 060	Rotating Magnet . . . . .	12	52 081	idem, with stand etc. . . . .	—
52 061	Apparatus for generating Foucault Currents . . . . .	1	52 082	Model for explaining the main phenomenon in the Gyroscope . . . . .	2
52 062	Apparatus for Unipolar Induction . . . . .	1	52 083	Schmidt's Top with Hollow Sphere. . . . .	14
52 063	Apparatus for Earth Induction . . . . .	3	52 084	Gyrostat after Gray . . . . .	1
52 064	idem, with commutator and slip rings . . . . .	6	52 085	Curve Top . . . . .	1
52 065	Pacinotti's Ring . . . . .	3	52 086	Fessel's Top . . . . .	4
52 068	Model of a Short-circuited Armature in the Magnetic Field . . . . .	2	52 087	idem, with 2 rings . . . . .	—
52 068a	idem . . . . .	6	52 088	Bohnenberger's Apparatus . . . . .	6
52 069	Rotating Thermocouple. . . . .	4	52 089	idem, improved by Poggendorff . . . . .	2
<b>Inertia, Tops, Pendulums.</b>			52 092	Polytrope after Sire . . . . .	5
52 070	Apparatus for determining the Moment of Inertia . . . . .	1	52 093	Polygonal Pendulum . . . . .	4
			52 094	Conical Pendulum . . . . .	1
			52 095	Top Apparatus after Wanka . . . . .	1
			52 097	Alternating Gyroscopic Tree . . . . .	1
			52 098	Pendulum Stand . . . . .	4
			52 099	idem, of iron . . . . .	2
			52 101	4 Pendulums . . . . .	4
			52 102	Pendulum Frame . . . . .	4

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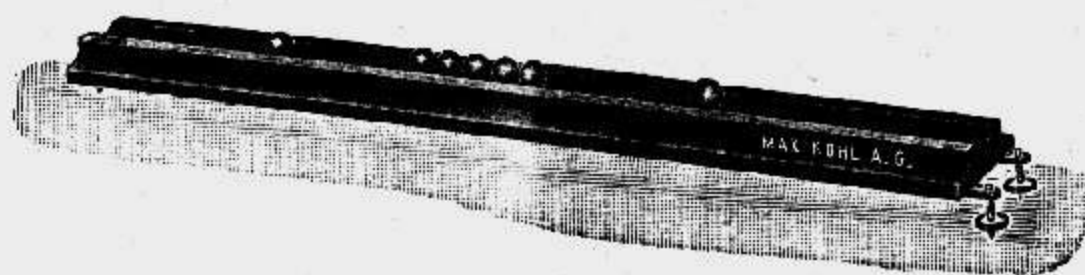


52 080 1:3

52 071	Moment of Inertia Apparatus . . . . .	2	52 103	Pendulum for explaining the Laws of the Pendulum . . . . .	7
52 072	Pendulum for Moment of Inertia . . . . .	3	52 104	Maxwell's Pendulum . . . . .	8
52 073	Apparatus for determining the Moment of Inertia . . . . .	1	52 105	Pendulum with directly measurable length . . . . .	1
52 074	Moment of Inertia Apparatus . . . . .	2	52 108	Reversing Pendulum after Weinholt . . . . .	4
52 075	Rotating Disc and Weighted Bar . . . . .	1	52 109	idem, after Frick . . . . .	13
52 075a	idem, smaller . . . . .	2			

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No.	Object	Piece	No.	Object	Piece
52 110	Reversing Pendulum . . . . .	9	52 149	Tribometer for Sliding Friction	3
52 112	idem, after Kater . . . . .	5	52 150	idem, after Coulomb, simpler than	2
52 114	Sheet Iron Pendulum . . . . .	1	52 153	Adhesion Plate of 80 mm . . . . .	10
52 115	Sheet Iron Pendulum without suspension . . . . .	6	52 154	Adhesion Plates, Diameter 120 mm	10
52 116	Hillig's Pendulum Apparatus . . . . .	2	52 155	idem, Diameter 150 mm . . . . .	2
52 117	Mach's Pendulum Apparatus . . . . .	4	52 156	idem, 200 mm . . . . .	3
52 118	Oberbeck's Cross Pendulum . . . . .	5	52 158	Cylinder of Lead and Wax . . . . .	1
52 119	idem, without stand . . . . .	4	52 159	Ivory Ball with Marble Slab . . . . .	—
52 120	Spring Pendulum after Prof. Eugen Meyer . . . . .	1	52 160	idem, with nickelled Iron Slab	4
52 124	Airy's Double Pendulum . . . . .	1	52 161	Percussion Trough . . . . .	6
52 125	idem, without stand . . . . .	2	52 162	3 Lead Balls and 3 Hardwood Balls	7
52 126	Oberbeck's Double Pendulum . . . . .	3	52 163	Percussion Apparatus . . . . .	2
52 128	Apparatus for Foucault's Pendulum Experiment . . . . .	3	52 164	idem, with ivory balls . . . . .	5
52 129	idem . . . . .	5	52 165	idem . . . . .	5
52 133	Contact Device . . . . .	1	52 166	idem . . . . .	3
52 135	Torsion Pendulum . . . . .	2	52 167	Apparatus for showing that the angle of reflection is equal to the angle of incidence . . . . .	1
52 136	U-Tube . . . . .	1	52 168	idem, after Frick . . . . .	1
52 137	Apparatus for demonstrating and explaining the harmonically Oscillating Motion . . . . .	2	52 169	idem, after Nollet . . . . .	7
52 138	Apparatus for projection harmonic vibration . . . . .	4	52 170	Glass Spiral . . . . .	8
52 139	Resonance Top . . . . .	3	52 171	Glass Vessel, cracked spiral shape	5
52 141	Resonance Top, in velvet case	1	52 172	Rubber Hose for Elasticity Experiments . . . . .	—
52 142	Resonance Apparatus after Prof. Eugen Meyer . . . . .	1	52 173	Apparatus for demonstrating and measuring the expansion and elasticity of wires of different metals . . . . .	3
52 143	Analysing Apparatus . . . . .	3	52 174	Wood Rod . . . . .	5
52 144	Apparatus for Cavendish's Experiment on the Attraction of Mass . . . . .	7	52 175	S'Gravesande's Apparatus . . . . .	2
			52 176	Apparatus for determining elasticity in bending . . . . .	1
			52 178	One Set Weights . . . . .	4



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**Molecular Effects of Solids.**

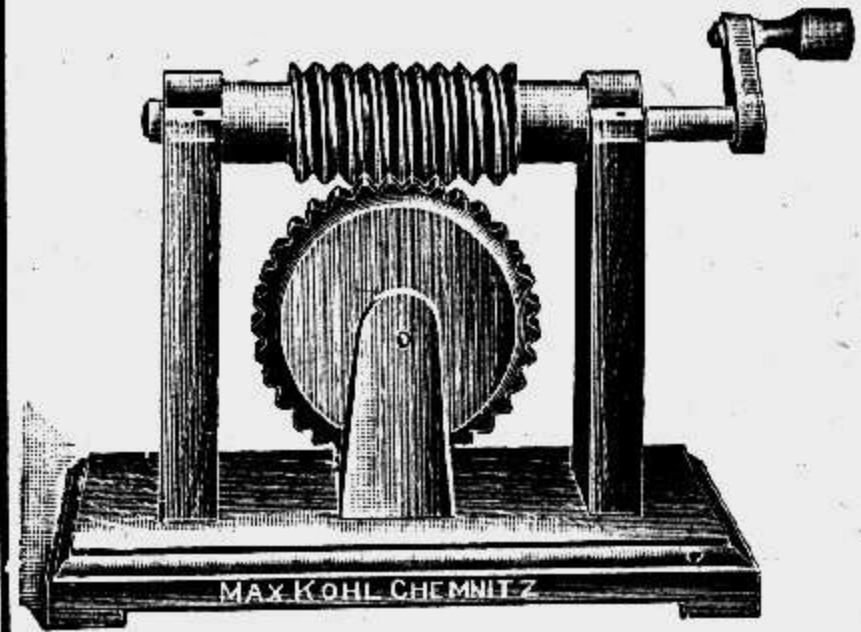
52 146	Molecule Model after Körner . . . . .	2	52 179	Transverse Strength Apparatus	2
52 147	idem, after Hartl . . . . .	2	52 179a	idem, smaller . . . . .	1
52 148	Hartl's Tribometer . . . . .	1	52 180	Bent Crankshaft, after Prof. Eug. Meyer . . . . .	3
			52 181	Prof. Eug. Meyer's Bending Model	
			52 181a	idem, smaller . . . . .	1

No.	Object	Piece	No.	Object	Piece
52 182	Crankshaft with moving parts .	4	52 206	Dynamometer (Spring Balance) for tensile forces after Hesehus . . . . .	7
52 183	Apparatus for Determining the Statically Indefinite Forces on a Bearing . . . . .	3	52 207	Poncelet's Dynamometer . . . . .	2
52 183a	(smaller pattern) Apparatus for Determining the Statically Indefinite Forces on a Bearing . . . . .	4	52 208	Dynamometer with balance pan	3
52 184	Model for Demonstrating Mohr's Law on the Elastic Line after Prof. Eug. Meyer . . . . .	2	52 209	idem with stirrup and handle	1
52 184a	(smaller pattern) Apparatus for Demonstrating Mohr's law . . . . .	1	52 211	idem for Compression . . . . .	4
52 185	Prof. Eug. Meyer's Rivetting Model . . . . .	2	52 212	idem for Compression and Extension . . . . .	4
52 186	Bach's Breaking Model . . . . .	3	52 213	idem . . . . .	2
52 187a	Apparatus for Demonstrating Resistance to Breaking Strain of Bars after Prof. Michel . . . . .	1	52 215	6 Pieces of Wire, with lugs, for breaking tests . . . . .	5
52 188	Model for Explaining Tension after Prof. Eug. Meyer . . . . .	—	52 216	Balance Pan . . . . .	—
52 189	Prandl's Apparatus . . . . .	3	52 218	Sheet Iron Strip . . . . .	1
52 190	Apparatus for Demonstrating the Deformation of a Parallelepipedic Body on the end surfaces of which normal shearing stresses act simultaneously . . . . .	2	52 219	U-shaped Bar . . . . .	2
52 191	idem . . . . .	3	52 221	Arrangement for Elasticity, Expansion and Breaking Tests . . . . .	2
52 192	Apparatus for Determining Young's Modulus . . . . .	2	52 222	Batavian Glass Drops . . . . .	500
52 194	2 Bars for Comparing Torsion of Elasticity . . . . .	2	52 223	Bologna Flasks . . . . .	500
52 195	Apparatus for Determining Torsional Elasticity . . . . .	—	52 227	Hardness Scale after Mohr . . . . .	2
52 196	idem . . . . .	3	<b>Models of Machine Elements and Parts and of complete Machines.</b>		
52 198	Torsional Force Model . . . . .	2	52 228	Prism with its hollow mould . . . . .	2
52 199	Jolly's Spring Balance . . . . .	11	52 229	Shoe Guide . . . . .	1
52 200	Simple Spring Balance . . . . .	5	52 230	Journal with bearing . . . . .	1
52 201	idem, with stand and balance pan . . . . .	5	52 232	Bolt and Nut . . . . .	2
52 202	Spring Balance after Friedr. C. G. Müller . . . . .	2	52 233	Triangular Screw Thread with Nut cut trough . . . . .	2
52 203	Kleiber's Universal Spring Balance . . . . .	2	52 234	Square Screw Thread with Nut cut trough . . . . .	—
52 204	Model of a Spring Balance, so called Kitchen Balance . . . . .	4	52 235	Model of Screw . . . . .	4
52 205	Spring Balance . . . . .	3	52 236	Simple Machines . . . . .	9
			52 237	Fixed Nut with Rotary Screw Spindle . . . . .	2
			52 238	Fixed Screw Spindle, with Rotary Progressive Nut . . . . .	2
			52 239	Screw Spindle, rotary, resting immovably in its bearings, with straight guided, progressive nut . . . . .	2
			52 240	Rotary Nut, incapable of lateral movement, with straight guided, progressive screw spindle . . . . .	2
			52 241	Screw with Right-and-Left-Handed Thread . . . . .	2

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No.	Object	Piece	No.	Object	Piece
52 242	Screw with two Threads of Different Pitch . . . . .	6	52 311	Rack with Spur Wheel Motion	3
52 243	Screw Thread with Ratchet Brace	3	52 312	Emsmann's Universal Wheel Apparatus . . . . .	1
52 244	Screw Press . . . . .	2	52 314	Mangle Gear . . . . .	4
52248	Parallel Crank . . . . .	2	52 316	idem, rectangular; Crown Wheel with lantern wheels . . . . .	2
52 250	Anti-parallel Cranks . . . . .	2	52 317	idem, with double lantern wheel drive . . . . .	2
52 252	Crank Shaft . . . . .	5	52 320	Two Toothed Wheels with Excentric Axes . . . . .	1
52 253	Oscillating Thrust Crank, Driving Wheel with Connecting Rod	2	52 321	Two Cam-shaped Toothed Wheels	1
52 255	Rotating Crank and Slot . . .	2	52 322	Two Congruent Elliptical Toothed Wheels . . . . .	3
52 256	Crank and Slot . . . . .	2	52 323	Two Toothed Wheels shaped according to the logarithmic spiral . . . . .	3
52 258	Oscillating Cross Slot . . . . .	2	52 324	Mitre Gearing . . . . .	2
52 259	Rotating Cross Slot . . . . .	1	52 325	Two Bevel Wheels . . . . .	3
52 260	Oldham's Coupling . . . . .	1	52 326	idem . . . . .	2
52 261	Model of the Bent Lever . . .	2	52 328	Spur Wheels with Screw Tothing, Hook's Gearing . . . . .	1
52 262	Peaucellier's Guide . . . . .	1	52 329	Two Wheels with Screw Tothing	1
52 263	Watt's Parallelogramm . . . . .	1	52 331	idem, with inclining axes . . .	2
52 264	Beam for Steam Engines . . . . .	1	52 334	Worm and Wheel . . . . .	2
52 266	Stephenson's Link . . . . .	3	52 335	idem . . . . .	3
52 267	Gooch's Link . . . . .	2			
52 268	Model Table for demonstrating the Static Equilibrium Conditions of the Centrifugal Governor . . . . .	3			
52 272	Cardan's Coupling . . . . .	5			
52 273	idem, with graduation . . . . .	6			
52 274	Cardanic Double Coupling . . .	1			
52 275	Goubet's Coupling . . . . .	2			
52 278	Excentric Drive with guides . .	1			
52 279	Simple Excentric . . . . .	1			
52 282	Double Excentric with reverse motion . . . . .	—			
52 283	Cam Disc . . . . .	4			
52 284	Cam Motion . . . . .	4			
52 285	Archimedian Spiral Disc . . . . .	3			
52 286	Arc Triangle . . . . .	1			
52 301	Two Spur Wheels with external tooth-contact . . . . .	2			
52 302	Spur Wheel Sector and Small Spur Wheel . . . . .	1			
52 303	idem, with involute profile . .	3			
52 305	Large Spur Wheel Sector with Small Spur Wheel . . . . .	1			
52 309	Wheel Suspension with five toothed wheels . . . . .	1			
52 310	Internal Toothed Wheel and Spur Wheel . . . . .	3			



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52 335a	Worm and Wheel with flat, double thread . . . . .	3
52 338	Double-Thread Worm . . . . .	2
52 339	Screw Thread with Worm . . .	2
52 340	Hyperbolical Toothed Wheels .	2
52 341	Spiral Wheel with Toothed Wheel	2

No.	Object	Piece	No.	Object	Piece
52 344	Differential Epicycloidal Gear	2	52 394	Windlass with Crank . . . . .	4
52 347	Labire Guides . . . . .	2	52 395	Differential Windlass, of wood . . . . .	—
52 350	Planet Wheels . . . . .	1	52 396	idem, of metal . . . . .	1
52 360	Differential Epicycloidal Gear with Bevel Wheels . . . . .	1	52 397	Pair of Spur Wheels with Weights, on stand . . . . .	5
52 365	Ratchet Gear, working with half teeth . . . . .	1	52 398	Windlass with simple Toothed Gearing . . . . .	5
52 366	idem, with continuous motion . . . . .	2	52 399	Windlass with Toothed Wheel and Gearing . . . . .	4
52 370	Coupling with Brake and Claws	2	52 401	Windlass with Double Gearing	1
52 371	Coupling with Friction Cone and Claws . . . . .	3	52 402	Windlass with Double Intermediate Gearing. . . . .	1
52 379	Engaging Gear with Intermediate Gearing . . . . .	1	52 404	Ship's Capstan, of wood . . . . .	2
52 380	Band Brake . . . . .	1	52 405	idem, of metal . . . . .	2
52 382	Cord Drive. . . . .	2	52 406	Jack, with 3 legs . . . . .	1
52 383	Step Cone Transmission by Belt	2	52 408	German Hoisting Jack . . . . .	1
52 386	Belt Gear disengaged by a loose pulley . . . . .	2	52 411	Crane with Invariable Jib. . . . .	3
52 388	Belt Gear for two axes inclined towards each other. . . . .	—	52 413	Crane with variable Jib . . . . .	1
52 389	Belt Transmission with two Belt Pulleys with variable angles	2	52 414	Wall Crane . . . . .	2
52 391	Gall Chain Transmission . . . . .	2	52 416	Shore Turning Crane. . . . .	2
52 392	Simple Windlass, of wood. . . . .	3	52 422	Pile Driver . . . . .	2
52 393	idem, of metal . . . . .	7	52 424	Brake Dynamometer . . . . .	5
			52 425	idem . . . . .	5
			52 427	Model of a Pendulum Escapement	10
			52 428	Model of a Clock . . . . .	8

**Equilibrium, Motion and Molecular Effects of Liquids.**

52 435	Universal Hydrostatic Apparatus	—	52 451	Apparatus for Propagation of glass	—
52 436	idem, but constructed half as large again. . . . .	1	52 452	idem, of brass, with Pressure Gauges . . . . .	11
52 436a	Universal Hydrostatic Apparatus	2	52 453	Apparatus for the Propagation of Pressure in Liquids and Gases, on stand . . . . .	5
52 437	idem, in box . . . . .	—	52 454	Brass Cube for Pressure Propagation . . . . .	2
<b>Equilibrium of Liquids.</b>			52 455	Apparatus for demonstrating the Distribution of Pressure in Long Tubes . . . . .	2
52 441	Tube Level Model . . . . .	1	52 457	Tube with closed Pressure Gauges	3
52 441a	idem . . . . .	2	52 458	Recknagel's Hydrostatic Apparatus . . . . .	4
52 442	Tube Level. . . . .	9	52 459	Hydraulic Bellows . . . . .	1
52 443	idem, smaller and simpler pattern	3	52 461	Hydraulic Press . . . . .	3
52 444	Spirit Level . . . . .	—	52 463	idem . . . . .	5
52 447	Round Spirit Level . . . . .	3	52 464	idem, with Pressure Gauge . . . . .	2
52 448	idem . . . . .	3			
52 448a	idem . . . . .	6			
52 450	Apparatus for Propagation of Pressure. . . . .	15			

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No.	Object	Piece	No.	Object	Piece
52 465	Hydraulic Press with Glass Cylinder . . . . .	3	52 496	Communicating Tubes . . . . .	15
52 467	Hydraulic Press . . . . .	—	52 497	idem . . . . .	2

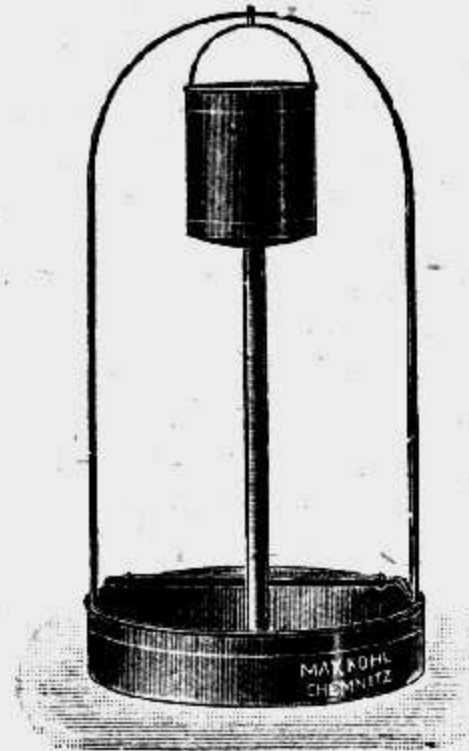


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52 470	Model for explaining the Hydraulic Press . . . . .	10
52 472	idem, Double Size . . . . .	5
52 473	Rubber Vessel . . . . .	3
52 474	Sheet Iron Cylinder with holes at different heights . . . . .	—
52 475	Pressure - Increase Apparatus after Hartl . . . . .	3
52 476	idem, with Pointer Reading . . . . .	4
52 478	Apparatus for proving Pascal's Law . . . . .	—
52 479	Pascal's Apparatus . . . . .	4
52 481	idem . . . . .	6
52 482	idem . . . . .	2
52 483	Hartl's Apparatus . . . . .	1
52 485	Pellat's Apparatus . . . . .	3
52 488	Haldat's Apparatus . . . . .	3
52 489	Hartwich's Apparatus for the Hydrostatic Paradox . . . . .	3
52 490	Sire's Apparatus . . . . .	2
52 492	Buoyancy Apparatus . . . . .	8
52 494	idem . . . . .	2
52 495	3 Communicating Tubes . . . . .	6

52 496	Communicating Tubes . . . . .	15
52 497	idem . . . . .	2
52 498	Communicating Vessels . . . . .	2
52 500	Channel Balance . . . . .	5
52 501	idem, better type . . . . .	6
52 502	Model of the Channel Balance . . . . .	3
52 503	U-shaped Tubes for liquids of different gravity . . . . .	6
52 504	idem . . . . .	2
52 505	idem . . . . .	4
52 507	idem . . . . .	1
52 508	Apparatus for proving the Archimedian Law . . . . .	3
52 509	Solid and Hollow Cylinders . . . . .	10
52 510	idem, smaller . . . . .	32
52 511	Apparatus for explaining the Archimedian Principle . . . . .	5
52 512	Apparatus for demonstrating the Archimedian Principle . . . . .	1
52 513	Float Apparatus after Schellen . . . . .	—
52 514	idem, simpler . . . . .	5
52 515	Float and Glass Cylinder with plane base . . . . .	1
52 516	idem . . . . .	1
52 517	Float after Haedicke . . . . .	5
52 519	Float Apparatus after Vogel . . . . .	10
52 520	Float and Glass Cylinder . . . . .	9
52 524	Half-Cylinder for the Metacentre . . . . .	—
52 525	Section of Cylinder with 2 equilibrium positions . . . . .	—
52 526	Cold Water Float, Hollow Brass Sphere . . . . .	6
52 528	Glass Body . . . . .	2
52 529	Small Flask and Watch Glass . . . . .	9
52 531	Displacing Apparatus . . . . .	1
52 533	idem, large pattern . . . . .	—
52 540	Displacing Bodies . . . . .	—
52 542	Hydrometer after Nicholson, of brass . . . . .	8
52 543	idem, of glass . . . . .	7
52 544	Hydrometer after Tralles . . . . .	10
52 545	idem, after Fahrenheit . . . . .	5
52 546	2 Hydrometers . . . . .	29
52 547	idem . . . . .	47
52 548	Hydrometer of high Sensitivity . . . . .	4
52 549	Hydrometer, high Sensitivity Pattern . . . . .	4

No.	Object	Piece	No.	Object	Piece
52 550	Universal Hydrometer . . . . .	26	52 595	Hartl's Apparatus . . . . .	2
52 551	idem . . . . .	3	52 596	Barker's Mill . . . . .	2
52 552	Hydrometer . . . . .	3	52 597	idem . . . . .	7
52 553	Large, Flat Hydrometer . . . . .	12			
52 554	Specific Gravity Indicator . . . . .	6			
52 557	Alcoholimeter after Tralles . . . . .	17			
52 559	Glass Cylinder . . . . .	2			
52 560	Hydrometer with Centrigram Spindle . . . . .	3			
52 561	Pneumatic Densimeter . . . . .	6			
52 562	idem, after Mohr . . . . .	1			
52 563	idem, after Babinet . . . . .	1			
52 564	2 Immersion Tubes . . . . .	1			
52 566	Pycnometer . . . . .	1			
52 567	idem . . . . .	12			
52 568	idem . . . . .	29			
52 569	idem . . . . .	8			
52 570	idem . . . . .	4			
52 571	idem, after Sprengel . . . . .	7			
52 572	Pycnometer . . . . .	—			
52 573	1 Cubic Centimetre . . . . .	6			
52 574	12 Cubic Centimetres in case . . . . .	5			
52 575	12 Bars . . . . .	4			
52 576	4 Metal Strips . . . . .	3			
52 577	14 Metal Strips . . . . .	5			
52 578	3 Cylindrical Bodies . . . . .	2	52 598	idem . . . . .	3
52 579	Cylindrical Glass Vessel . . . . .	5	52 599	idem . . . . .	5
52 580	6 Liquids of different specific gravities . . . . .	—	52 600	idem . . . . .	4
			52 602	Hydraulic Ram, of glass . . . . .	14
			52 603	idem, of metal and glass . . . . .	2
			52 604	Hydraulic Ram . . . . .	2
			52 607	Indifferent Immersion Body . . . . .	—
			52 610	Diminution of Pressure Appa- ratus . . . . .	—
			52 611	Apparatus for showing Dimi- nution of Pressure in Cylindrical Tubes . . . . .	4
			52 612	Attachment for above . . . . .	3
			52 613	Two Glass Tubes . . . . .	3
			52 614	Glass Tube . . . . .	—
			52 622	Model of an Overshot Water Wheel . . . . .	6
			52 623	idem, larger . . . . .	1
			52 624	Model of an Undershot Water Wheel . . . . .	4
			52 625	idem, larger . . . . .	1
			52 626	Overshot and Undershot Water Wheel . . . . .	2
<b>Motion of Liquids.</b>					
52 582	Outflow Apparatus . . . . .	6			
52 583	idem, after Weisbach . . . . .	—			
52 587	Well Spring . . . . .	1			
52 588	Apparatus for showing that a Jet of Water flowing into the air is composed of drops . . . . .	5			
52 589	Apparatus for showing the para- bolic form of the outflowing Water Jet . . . . .	—			
52 590	Apparatus for showing the para- bolic form of the outflowing water . . . . .	2			
52 591	Reaction Float . . . . .	3			
52 592	Reaction Apparatus . . . . .	1			
52 593	idem, after Hartl . . . . .	3			



52 598. 1:10.

Max Kohl A. G. in Chemnitz.



Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
52 632	Model of a Turbine . . . . .	—	52 672	Apparatus for showing and measuring Surface Tension . . . . .	6
52 633	idem . . . . .	—	52 673	Apparatus after Rebenstorff . . . . .	2
52 634	Model of a Jonval Turbine . . . . .	1	52 674	idem . . . . .	8
52 636	Model of a Fourneyron Turbine . . . . .	1	52 676	Dropping Pipette . . . . .	12
52 639	Model of the Ship's Screw . . . . .	9	52 677	Wide Tube and Capillary Tube . . . . .	7
52 640	Model of a Wheel with movable Paddles . . . . .	3	52 678	idem, with short Capillary Limb . . . . .	4
52 641	Model of an Archimedian Water Screw . . . . .	7	52 679	2 Wide Tubes with Capillary Tubes . . . . .	9
52 644	Model of an Apparatus for raising the Sluices . . . . .	1	52 680	Wide Tube with 5 Communicating Capillary Tubes . . . . .	—
52 645	idem . . . . .	2	52 682	Apparatus for Capillary Depression and Ascension of Liquids . . . . .	12
52 646	idem . . . . .	1	52 684	5 different Capillary Tubes . . . . .	6
<b>Molecular Effects of Liquids.</b>			52 686	5 Capillary Tubes with stand . . . . .	5
52 647	Piezometer after Weinhold . . . . .	6	52 687	Capillary Tubes alone . . . . .	7
52 648	idem, after Grimsehl . . . . .	4	52 688	4 Capillary Tubes of different shapes . . . . .	3
52 649	idem, after Oersted . . . . .	3	52 689	Apparatus for showing the behaviour of wetting and non-wetting liquids in a conical tube . . . . .	10
52 650	idem, after Oersted . . . . .	—	52 690	1 Set Capillary Tubes . . . . .	5
52 653	Attachment with two Gas Pressure Tubes . . . . .	1	52 691	Apparatus for demonstrating Migration of a Mercury Drop by the electrolytically-produced inequality of surface tension . . . . .	4
52 654	Attachment with 1 Ether Vessel and 1 Water Vessel . . . . .	2	52 692	Capillary Plates, without stand . . . . .	4
52 655	Attachement . . . . .	1	52 693	idem, with stand . . . . .	12
52 656	Attachment with Four Tubes . . . . .	1	52 694	idem, larger . . . . .	7
52 657	Piezometer after Regnault . . . . .	3	52 695	Apparatus after Arrhenius . . . . .	4
52 659	Plateau's Apparatus . . . . .	4	52 696	Apparatus after Jamin . . . . .	6
52 660	idem . . . . .	4	52 697	Striation Apparatus . . . . .	1
52 661	4 Cohesion Plates . . . . .	4	52 698	Apparatus after Uppenborn . . . . .	5
52 662	4 Hollow Spheres, of glass . . . . .	—	52 699	Endosmometer . . . . .	5
52 663	Plateau's Equal-weight Figures . . . . .	4	52 700	idem . . . . .	3
52 666	Vacuum Syphon . . . . .	5	52 701	Endosmometer . . . . .	3
52 667	Cohesion and Adhesion Tube . . . . .	3	52 702	Endosmometer after Pfeffer . . . . .	1
52 668	Apparatus for showing that Liquids endeavour to Contract . . . . .	2	52 703	Osmostic Apparatus . . . . .	1
52 670	idem, simple . . . . .	1	52 704	Vessel for Dialysis . . . . .	2
52 671	Apparatus for demonstrating Surface Tension . . . . .	3			

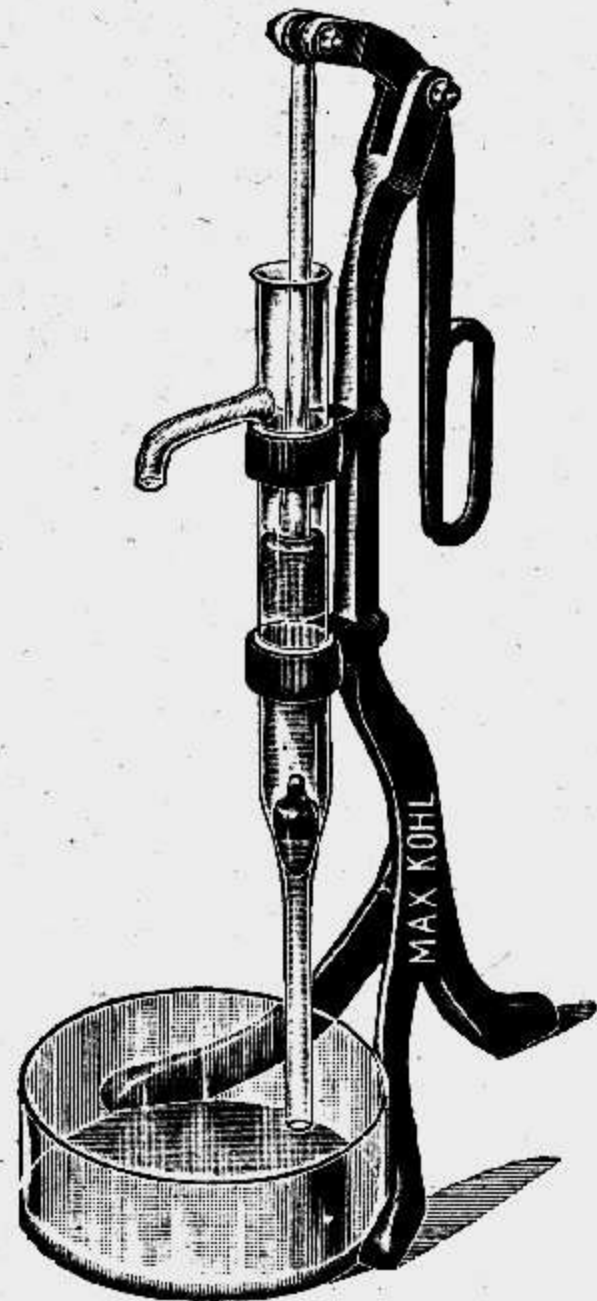
**Equilibrium, Motion and Molecular Effects of Gases.**

<b>Equilibrium of Gases.</b>					
52 705	Apparatus for Experiments with Glass and Vapours . . . . .	3	52 709	Pressure Flask, after Schneider . . . . .	1
52 707	idem, with Gases, after Schneider . . . . .	1	52 710	Diving Bell . . . . .	1
52 708	idem, with iron stand . . . . .	3	52 712	Indiarubber Balloon in wood box . . . . .	4
			52 713	Apparatus for showing the Elasticity of Air . . . . .	3

No.	Object	Piece	No.	Object	Piece
52 715	Glass Tube for determining the Specific Gravity of Gases . .	3	52 778	Syphon Barometer . . . . .	—
52 717	Baroscope after Schoentjes . .	4	52 779	idem, in case, portable . . . .	5
52 720	Further Constituents of Apparatus for Experimental Measurements with Air Balloons . . . . .	1	52 781	Syphon Barometer . . . . .	1
52 730	Pressure Level . . . . .	4	52 783	Syphon Barometer, after Krajevitch . . . . .	3
52 731	idem . . . . .	1	52 785	Syphon Barometer, with adjustable Barometer Tube . . . .	1
52 733	Pressure Gauge Apparatus . .	5	52 786	Fortin Station Barometer . . .	—
52 734	Pressure Gauge . . . . .	6	52 787	idem . . . . .	3
52 735	Pressure Gauge with 3-way stopcock . . . . .	2	52 788	Travelling and Altitudinal Barometer, after Fortin . . . . .	—
52 737	Sensitive Syphon Pressure Gauge	2	52 789	idem, as Station Barometer . .	1
52 738	Duplex Pressure Gauge . . . .	2	52 790	Travelling and Altitudinal Barometer after Gay-Lussac . . . .	5
52 739	Open Mercurial Pressure Gauge for 2 atm. . . . .	2	52 791	Bourdon's Tube . . . . .	—
52 740	idem, for 3 atm. . . . .	2	52 792	Aneroid Barometer . . . . .	3
52 741	Closed Mercurial Pressure Gauge	3	52 793	idem . . . . .	2
52 746	Vacuum Gauge after MacLeod	1	52 795	Demonstration Aneroid Barometer . . . . .	3
52 747	idem, smaller and simpler . .	1	52 796	idem . . . . .	—
52 748	Barometrical Pressure Gauge .	1	52 799	Altitudinal Barometer . . . . .	1
52 749	Barometer Tube, without graduation . . . . .	12	52 804	Aneroid Barometer . . . . .	12
52 750	idem, with etched graduation .	6	52 805	Good Round Pattern Barometers	1
52 752	3 Barometer Tubes . . . . .	3	52 806	Metal Barometer with Bourdon Tube . . . . .	4
52 753	idem . . . . .	1	52 811	Boyle's Law Apparatus, after Feilitzsch . . . . .	2
52 754	4 Barometer Tubes . . . . .	6	52 815	Boyle's (Mariotte's) Law Apparatus . . . . .	2
52 755	idem, without graduation . .	2	52 816	idem, after Szekely . . . . .	2
52 756	Demonstration Barometer Tube	3	52 817	idem, after Huber . . . . .	—
52 757	idem, with one platinum electrode	1	52 818	idem, small pattern . . . . .	—
52 758	Barometer Tube . . . . .	16	52 819	idem . . . . .	2
52 759	idem . . . . .	—	52 820	idem . . . . .	2
52 760	Tripod Stand, of wood . . . .	3	52 823	Volumnometer, after Regnault .	3
52 761	Barometer Tube . . . . .	5	52 824	Volumnometer . . . . .	7
52 762	Barometer Tube with Tube Holder and Index . . . . .	2	52 825	Stereometer, after Say . . . .	1
52 763	Duplex Barometer . . . . .	1	52 826	Bathometer, of glass . . . . .	3
52 764	idem, with two vessels . . . .	2	52 827	Vestal Sieve . . . . .	3
52 765	Duplex Barometer after Kleiber	7	52 828	Magic Jug . . . . .	4
52 766	Apparatus for the Torricellian Experiment . . . . .	7	52 829	Tantalus Cup . . . . .	6
52 770	Simple School Model of Syphon Barometer . . . . .	2	52 830	Magic Pitcher . . . . .	5
52 771	Barometer, simple . . . . .	5	52 831	Magic Tun . . . . .	2
52 773	Standard Barometer after Regnault . . . . .	1	52 832	Magic Funnel . . . . .	2
52 774	Barometer . . . . .	—	52 833	Inverted Float . . . . .	5
52 776	Syphon Barometer, after Brunn	—	52 834	Mariotte's Bottle . . . . .	9
			52 835	idem . . . . .	6
			52 836	idem . . . . .	5

Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
52 838	Syphon, of glass . . . . .	1	<b>Motion of Gaseous Bodies.</b>		
52 839	Connecting Syphon . . . . .	2	<b>Vacuum Pumps.</b>		
52 840	Plunging Syphon, of glass . . . . .	50	52 885	Small Stopcock Vacuum Pump	9
52 841	Luhme's Pipette . . . . .	2	52 886	idem, larger . . . . .	—
52 842	Syphon for poisons . . . . .	12	52 887	Vacuum Pump . . . . .	—
52 844	Poison Syphon for easily flowing liquids . . . . .	2	52 888	idem . . . . .	5
52 846	Weinhold's Syphon . . . . .	13	52 891	Stopcock Vacuum Pump with 2 Barrels . . . . .	1
52 848	Syphon Apparatus . . . . .	1	52 892	Model of a Babinet Vacuum	1
52 849	Circulating Syphon . . . . .	2			
52 850	Apparatus for showing the circulation of the blood . . . . .	2			
52 852	Heron's Ball . . . . .	—			
52 853	Small Heron's Ball . . . . .	9			
52 854	Heron's Ball . . . . .	1			
52 855	idem . . . . .	1			
52 856	idem, with Force Pump . . . . .	2			
52 857	idem . . . . .	6			
52 858	Heron's Fountain . . . . .	—			
52 859	idem . . . . .	—			
52 860	idem, large . . . . .	2			
52 861	Intermittent Fountain . . . . .	4			
52 863	idem, large pattern . . . . .	1			
52 864	Cartesian Diver . . . . .	8			
52 865	idem . . . . .	1			
52 866	idem . . . . .	4			
52 867	6 Glass Tubes . . . . .	2			
52 868	Model of a Suction Pump . . . . .	1			
52 869	idem, of glass . . . . .	19			
52 870	idem, with metal stand . . . . .	14			
52 871	idem, of glass and metal . . . . .	2			
52 872	idem, large and massive pattern	—			
52 874	Suction Pump, with electric motor drive . . . . .	—			
52 875	Model of a Force Pump . . . . .	19			
52 876	idem . . . . .	12			
52 877	idem . . . . .	4			
52 878	idem . . . . .	—			
52 879	idem, French form . . . . .	3	52 897	Vacuum Pump with 2 Vertical Glass Barrels . . . . .	—
52 880	Model of a Centrifugal Pump . . . . .	2	52 898	idem . . . . .	2
52 881	Model of a Fire Engine . . . . .	10	52 899	idem . . . . .	2
52 882	idem . . . . .	9	52 900	Model of a Double Barrel Vacuum Pump . . . . .	—
			52 901	Vacuum Pump with Oil-packed Piston . . . . .	4
			52 902	idem . . . . .	5
			52 903	idem . . . . .	3

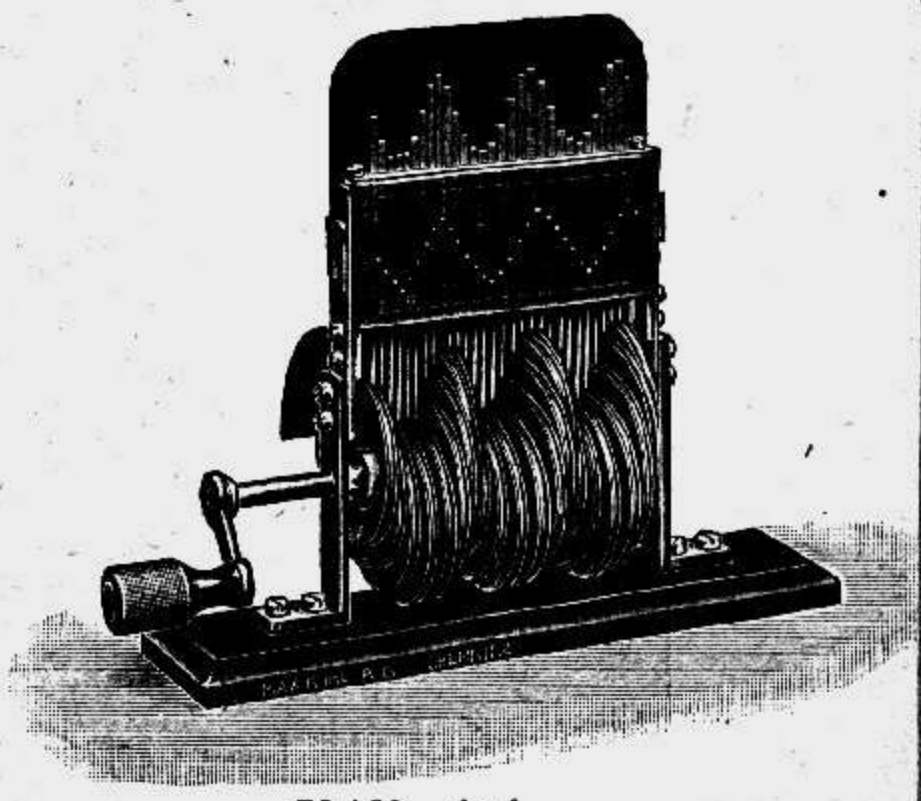


52 870. 1:5.

No.	Object	Piece	No.	Object	Piece
52 904	Vacuum Pump with Oil-packed Piston. . . . .	4	53 034	Two Glass Spheres. . . . .	3
52 905	idem . . . . .	—	53 035	Magdeburg Hemispheres, 100 mm diameter. . . . .	—
52 906	idem . . . . .	1	53 036	idem, 120 mm diameter . . . . .	6
52 907	idem . . . . .	6	53 037	idem, 200 mm diameter . . . . .	3
52 908	idem . . . . .	3	53 038	Dasymeter, small . . . . .	8
52 915	Duplex Vacuum Pump with Oil-packed Piston. . . . .	1	53 039	idem, larger . . . . .	9
52 916	Duplex Vacuum Pump with Oil-packed Piston, Plate and Barometer Gauge. . . . .	1	53 040	idem, very large. . . . .	1
52 919	idem . . . . .	2	53 041	idem, after Prof. F. C. G. Müller	1
52 920	idem . . . . .	—	53 044	Apparatus for Bursting Bladders	1
52 933	idem . . . . .	1	53 045	idem . . . . .	2
52 945	Rotary Oil Vacuum Pump, Size 1	3	53 047	idem . . . . .	1
52 946	idem, Size 2 . . . . .	1	53 048	Apple Cutter . . . . .	1
52 947	idem, Size 3 . . . . .	17	53 049	Mercury Shower Apparatus . . . . .	5
52 986	Mercury Vacuum Pump . . . . .	1	53 050	idem . . . . .	19
52 988	idem . . . . .	1	53 051	Rubber Balloon . . . . .	2
52 989	idem . . . . .	—	53 052	Small Tripod with vessel underneath . . . . .	2
52 992	Rotary Mercury High-Vacuum Pump. . . . .	—	53 053	Apparatus for showing the uniform pressure of air in all directions . . . . .	4
52 997	Rotary Mercury Vacuum Pump	1	53 054	Apparatus for showing the uniform pressure of air in all directions with three brass hemispheres . . . . .	2
52 998	Mercury Distilling Apparatus for gas heating . . . . .	3	53 055	Syphon Fountain . . . . .	5
53 001	Mercury Filtration Apparatus . . . . .	1	53 056	Small Heron's Ball . . . . .	5
<b>Accessories for Vacuum Pumps.</b>			53 057	Mercury Syphon . . . . .	5
53 008	Receivers . . . . .	—	53 058	Air Reaction Wheel . . . . .	10
53 009	idem . . . . .	41	53 059	Fall Cylinder . . . . .	8
53 010	idem . . . . .	29	53 060	Fall Tube . . . . .	2
53 011	idem . . . . .	22	53 061	idem . . . . .	3
53 012	idem . . . . .	38	53 062	idem . . . . .	2
53 013	idem . . . . .	76	53 063	idem, after Puluj . . . . .	4
53 014	idem . . . . .	20	53 065	idem, with stopcock . . . . .	1
53 015	idem . . . . .	15	53 066	Wind Fan . . . . .	4
53 016	idem . . . . .	10	53 067	Double Fan . . . . .	4
53 017	Stuffing Box Receiver. . . . .	12	53 069	Bell with clockwork . . . . .	—
53 018	idem . . . . .	6	53 070	idem . . . . .	—
53 019	idem . . . . .	4	53 071	idem . . . . .	5
53 028	Drying Apparatus for the air pump . . . . .	8	53 072	Electric Bell in a receiver . . . . .	—
53 029	Barometric Gauge, small . . . . .	3	53 073	Apparatus for forming ice . . . . .	4
53 030	idem, larger . . . . .	1	53 074	Freezing Apparatus after Carré	7
53 031	Standing Barometer in receiver 85 cm high. . . . .	2	53 075	idem . . . . .	8
53 032	Receiver with Barometer and Manometer . . . . .	4	53 076	idem . . . . .	2
			53 077	Apparatus after Davy . . . . .	—
			53 078	Apparatus for demonstrating the cooling Action of Gases, after Tyndall . . . . .	6

Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
53 082	Receiver with Carbon Rods for producing an electrifying arc .	4	53 118	Sectional Model of a Membrane Valve . . . . .	2
53 083	Glow Lamp Filament in Receiver	3	53 121	Windmill, of cardboard . . . .	—
53 089	Model of Compression Pump .	—	53 122	Screw Flyer . . . . .	8
53 091	Compression Pump . . . . .	1	53 123	idem . . . . .	3
53 092	idem . . . . .	1	53 124	Throwing Apparatus wound by a spring . . . . .	—
53 096	Air Reaction Wheel . . . . .	3	53 126	Throwing Apparatus for Boomerangs . . . . .	1
53 097	idem, entirely of metal . . . .	2	<b>Molecular Effects of Gaseous Bodies.</b>		
53 099	Gas Reaction Wheel . . . . .	6	53 129	Döbereiner's Tinder Box . . . .	1
53 101	Steam Reaction Wheel . . . . .	1	53 132	Apparatus for showing the Diffusion of Gases . . . . .	12
53 102	idem . . . . .	5	53 133	idem, with Manometer. . . . .	5
53 103	Draught Apparatus after Meidinger . . . . .	—	53 134	Gas Endosmose Apparatus . . . .	6
53 105	Apparatus for Suction Phenomena of Outflowing Gases . . . . .	5	53 136	Demonstration Gas Indicator . .	5
53 106	Apparatus for Suction Phenomena	12	53 137	Gas Indicator . . . . .	2
53 107	idem . . . . .	5	53 139	Silver-Plated Copper Plate . . .	1
53 108	idem . . . . .	1	53 140	Endosmometer after Beclar . . .	4
53 109	Model of Injector . . . . .	3	53 141	Apparatus for showing the absorption of Gases . . . . .	1
53 110	idem . . . . .	4	53 142	Absorptiometer after Bunsen . .	—
53 111	Pulverising Tube of glass . . . .	5	53 143	Effusiometer after Henninger . .	2
53 112	Apparatus for demonstrating the Breathing of human beings . .	7	<b>Wave Motions.</b>		
53 113	idem, with stand . . . . .	2	53 144	Longitudinal Wave Machine after Weinhold . . . . .	—
53 116	Sectional Model of a Conical Valve . . . . .	1	53 145	idem, each winding weighted with a lead ball . . . . .	—
53 117	Sectional Model of a Plate Valve	1	53 146	Wave machine after Mach . . . .	1
			53 148	Wave Machine, after Silvanus Thompson . . . . .	—
			53 149	Wave Machine after Hillig . . . .	—
			53 152	Wave Trough after Weber . . . .	3
			53 153	Apparatus for the Repulsion and Interference of Wave Motion . .	3
			53 154	Adjustable Mirror and Large B.-convex Lens for above. . . .	4
			53 155	Rope Wave Apparatus . . . . .	3
			53 156	4 Stands for Volkmann's Rope Wave Apparatus . . . . .	5
			53 157	4 Stands Clamps for preceding Stands . . . . .	4
			53 158	Indiarubber Cords . . . . .	4
			53 159	idem . . . . .	2



53 169. 1: 4.

53 160	Brass Wire Spiral on Silk Fibre	2
53 161	Brass Wire Spiral with Steel Rod	4
53 162	Apparatus after Rosenberg . . .	3

No.	Object	Piece	No.	Object	Piece
53 163	2 Spiral Spring Models . . . . .	3	53 174	Wave Machine after Fessel and Plücker . . . . .	2
53 164	Wave Apparatus after Melde . . . . .	4	53 175	Wave Machine after Christiani . . . . .	2
53 165	idem . . . . .	1	53 177a	Projection Wave Machine . . . . .	8
53 166	idem, larger . . . . .	1	53 178	Wave Machine after Crova . . . . .	3
53 168	Rotary Screw Spiral . . . . .	3	53 179	Stroboscopic Cylinder . . . . .	12
53 169	Transverse Wave Machine . . . . .	5	53 180	Wave Apparatus for Explaining the Vibration of Sounds . . . . .	2
53 171	Wave Machine after Steindel . . . . .	1	53 182	Wave Machine after Grimsehl . . . . .	1
53 172	Transverse Wave Machine . . . . .	1			
53 173	Wave Machine . . . . .	1			

**Acoustics.**

**Propagation of Sound, Pressure Changes, Reflection and Refraction of Sound.**

53 183	2 String Telephones . . . . .	4
53 184	Apparatus for demonstrating the Propagation of Sound in Liquids and Solids . . . . .	8
53 185	Sensitive Flame Burner after König . . . . .	1
53 186	Sensitive Flame Burner, after Weinhold . . . . .	4
53 187	idem . . . . .	6
53 188	Sensitive Flame after Rebenstorff . . . . .	2
53 189	Air Concussion Apparatus . . . . .	3
53 190	idem, after Weinhold . . . . .	12
53 193	Apparatus for showing the Pressure Change in Sound Waves, after Szymanski . . . . .	7
53 194	Tyndall's Apparatus for showing the Propagation of Sound in Long Tubes . . . . .	4
53 196	Megaphone . . . . .	5
53 196a	Megaphone, smaller . . . . .	2
53 197	Sondhaus's Lens . . . . .	5

**Sound Generation, Sirens and Blowers.**

53 199	Trevelyan's Rocker . . . . .	2
53 200	idem, without resonance box . . . . .	5
53 201	idem, after König . . . . .	2
53 203	Siren Disc . . . . .	6
53 204	Pipe with 4 nozzles . . . . .	7

53 208	Universal Mouthpiece for blowing the vacuum oris, flasks etc. . . . .	4
53 209	Siren, small pattern . . . . .	8
53 210	idem, with counting mechanism . . . . .	16
53 211	idem, large pattern . . . . .	4
53 212	idem, with counting mechanism . . . . .	3
53 213	Chord Siren after Dove . . . . .	2
53 214	Siren arranged to sound under water . . . . .	1
53 215	Double Siren . . . . .	1
53 216	Double Siren after Helmholtz, driven by a 110 volt D. C. electric motor . . . . .	2
53 220	Blowing Table with Siren . . . . .	1
53 221	Blowing Table for Acoustic Experiments . . . . .	1
53 229	Blowing Table for Constant Pressure . . . . .	1
53 232	Acoustic Bellows . . . . .	4
53 233	Acoustic Bellows after Bertram . . . . .	2
53 234	Wind Pressure Regulator . . . . .	3
53 235	Wind Chest, with four valves . . . . .	—
53 237	idem, with thirteen valves . . . . .	1

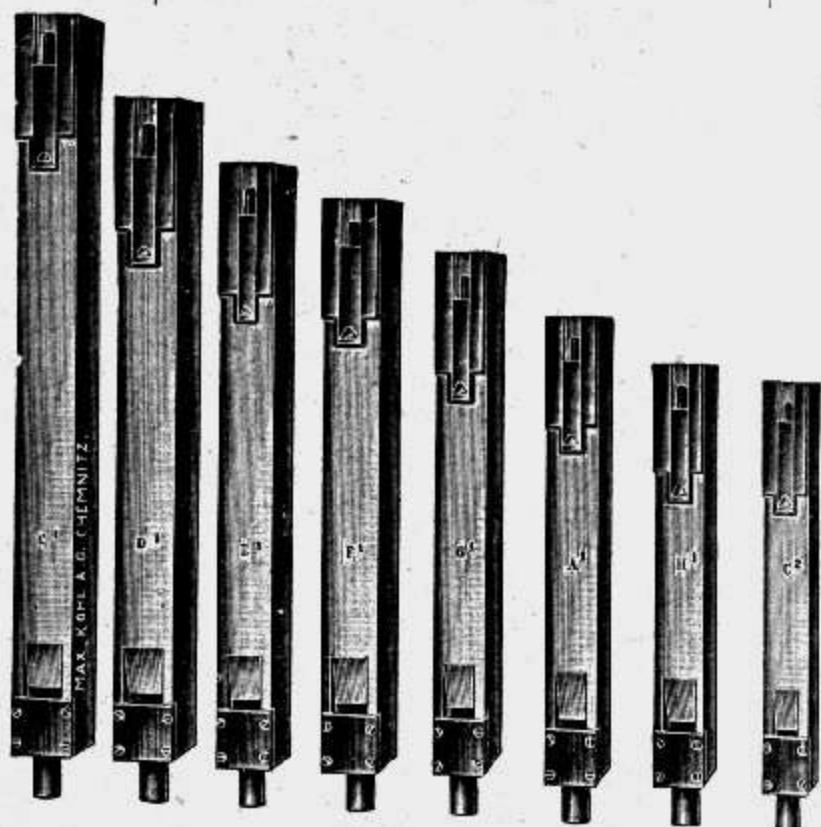
**Vibrating Air Columns, Pipes, Sound Analysis.**

53 238	4 Tubes with pistons . . . . .	2
53 239	Labial Pipe . . . . .	2
53 240	idem, of wood . . . . .	5
53 241	idem . . . . .	—
53 242	idem . . . . .	6
53 243	idem . . . . .	—
53 244	2 Long Brass Pipes . . . . .	7
53 245	4 Labial Pipes of Zinc . . . . .	—

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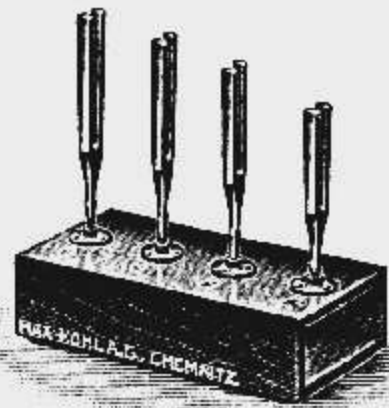
No.	Object	Piece	No.	Object	Piece
53 246	4 Labial Pipes of wood . . . . .	3	53 280	Free-vibrating Reed Pipe . . . . .	3
53 247	8 Labial Pipes . . . . .	—	53 281	Membrane Reed Pipe . . . . .	1
53 251	Organ Pipe Mouthpiece . . . . .	1	53 282	Reed Pipe with Sound Trumpet	—
53 255	2 Open Pipes . . . . .	1	53 283	idem . . . . .	5
53 256	Labial Pipe, with parchment wall	5	53 284	Horn with Reed . . . . .	4
			53 286	Chemical Harmonica . . . . .	1
			53 287	idem . . . . .	4
			53 288	idem . . . . .	3
			53 289	idem . . . . .	—
			53 290	idem, after Dr. Bresina . . . . .	—
			53 291	Gas Harmonica . . . . .	2
			53 293	Tube for Rijke's experiment . . . . .	6
			53 294	Electric Harmonica . . . . .	2
			53 297	Rotating Mirror Box, with Elec- tric Motor Drive . . . . .	5
			53 298	Rotating Mirror Box, larger . . . . .	6
			53 301	Rotating Mirror, on stand with clockwork . . . . .	3
			53 304	Stroboscopic Disc, with 110 volts D C. Electric Motor and Tacho- meter . . . . .	1
			53 305	Stroboscopic Disc . . . . .	2
			53 306	Gas Flame Manometer, after Weinhold . . . . .	3
			53 307	Gas Flame Manometer, with rotating burner and driving device . . . . .	1
			53 308	Gas Flame Manometer, with a rotating mirror . . . . .	2
			53 309	Mach's Organ Pipe . . . . .	6
				<b>Vibrating Bars, Velocity of Sound.</b>	
			53 311	Apparatus for the Longitudinal Vibration of Bars . . . . .	2
			53 312	4 Wood Bars . . . . .	7
			53 313	8 Wood Bars . . . . .	—
			53 314	Apparatus for showing the Ex- pansion and Contraction of a Longitudinally Vibrating Bar	2
			53 315	Kundt's Dust Figure Apparatus	2
			53 315a	idem . . . . .	2
			53 316	idem . . . . .	3
			53 317	Apparatus for determining the Velocity of Sound by observing stationary vibrations . . . . .	2
			53 318	2 Suitable Tuning Forks . . . . .	1
			53 319	idem . . . . .	5
			53 320	8 Steel Bars on one resonance box	6



53 247. 1:11.

53 257	Labial Pipe . . . . .	5
53 258	Small Double Pipe . . . . .	—
53 259	Horn without reed . . . . .	3
53 260	Labial Pipe with adjustable membrane . . . . .	9
53 261	idem . . . . .	—
53 262	Labial Pipe with long glass tube	4
53 263	Manometric Flame Pipe, after König . . . . .	10
53 264	idem, with Töpler's Flame Indi- cators . . . . .	2
53 265	Kundt's Covered Pipe . . . . .	6
53 266	Labial Pipe . . . . .	4
53 267	2 similar Labial Pipes . . . . .	1
53 268	2 Labial Pipes . . . . .	4
53 269	Open Pipe . . . . .	1
53 270	Cubic Pipe . . . . .	1
53 271	Cubic Labial Pipe, open . . . . .	2
53 272	2 Closed Cubic Pipes . . . . .	3
53 273	2 Covered Triangular Prismatic Labial Pipes . . . . .	1
53 274	3 Open Labial Pipes . . . . .	1
53 275	Tone Manometer, after Grimsehl	3
53 278	Reed Pipe . . . . .	15
53 279	idem . . . . .	11

No.	Object	Piece	No.	Object	Piece
53 321	Tuning Fork $a_1$ . . . . .	1	53 412	Tuning Fork $b_1$ . . . . .	4
53 325	idem $c_3$ . . . . .	6	53 413	5 Tuning Forks with Resonators	3
53 326	12 Massive Forks with Stand .	1	53 414	Tuning Fork with Resonator .	1
53 327	4 Tuning Forks . . . . .	5	53 418	Recording Tuning Fork $c_0$ . .	5
53 328	Tuning Fork, for proving Dopp- ler's Theorem . . . . .	2	53 420	Ivory Hammer . . . . .	3
53 329	13 Standard Tuning Forks . .	1	53 421	Hammer with rubber strikers .	6
53 334	Tuning Fork with electromag- netic drive . . . . .	2	53 422	Metal Drum Stick with leather discs . . . . .	—
53 335	2 Small Tuning Forks . . . . .	4	53 423	Cello Bow . . . . .	4
53 336	idem . . . . .	5	53 424	Bass Fiddle Bow . . . . .	2
			53 425	Tuning Fork Exciter Clamp .	4



53 337. 1:6.

53 337	4 Small Tuning Forks . . . . .	2
53 340	2 Tuning Forks $c_1$ . . . . .	1
53 341	2 Tuning Forks $a_1$ . . . . .	7
53 342	2 Tuning Forks $c_2$ . . . . .	7
53 343	4 Large Tuning Forks . . . . .	1
53 344	4 Large Tuning Forks . . . . .	1
53 346	1 Tuning Fork $d_1$ . . . . .	1
53 347	idem, $e_1$ . . . . .	1
53 348	idem, $f_1$ . . . . .	1
53 349	16 Tuning Forks on Resonance Boxes . . . . .	2
53 351	1 Tuning Fork $b_1$ . . . . .	1
53 354	idem, $e_2$ . . . . .	2
53 356	idem, $g_2$ . . . . .	—
53 370	13 Tuning Forks on Resonance Boxes . . . . .	1
53 382	Tuning Fork $a_1$ , with detachable electromagnetic drive . . . . .	2
53 383	2 Large Tuning Forks, with sliding weights . . . . .	6
53 411	Drumstick for striking Tuning Forks . . . . .	6

Vibrating Strings, Plates, Bells, etc.		
53 426	Monochord . . . . .	6
53 427	idem . . . . .	2
53 428	idem . . . . .	4
53 429	idem, with 4 Strings . . . . .	4
53 430	4 Iron Weights with Hooks .	4
53 432	Tuning Fork $c_1$ . . . . .	5
53 433	idem, $d_1$ . . . . .	2
53 435	10 Riders of Aluminium Wire	—
53 437	Apparatus for showing the posi- tion of the Nodes on the oppo- site sides of a longitudinally vibrating Horse Hair . . . . .	1
53 438	Apparatus for Chladni's Figures	9
53 439	idem, with two Metal Discs .	—
53 441	Chladni's Sound Figure Disc .	17
53 443	Tube with Stand for Chladni's Discs . . . . .	—
53 445	2 Metal Discs of same shape	2
53 447	Square Paper Membrane . . . . .	2
53 453	Apparatus for showing the Vibra- tion of Liquid Films . . . . .	1
53 454	Glass Bell on wood base . . . . .	5
53 455	Glass Bell with 4 Pendulums .	6

**Resonance Phenomena.  
Organs of Human Speech  
and Hearing.**

53 456	2 Tuning Forks . . . . .	—
53 458	Resonance Apparatus, after Sa- vart . . . . .	—
53 459	idem, after Drenteln . . . . .	5
53 461	Model of Larynx . . . . .	1

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No.	Object	Piece	No.	Object	Piece	
53 462	Model of Larynx . . . . .	1		<b>Demonstration of Lissajous Curves, Recording Tuning Forks, Drums and Vibrographs.</b>		
53 463	idem . . . . .	4				
53 464	Model of Ear . . . . .	3				
53 465	Model of Ear . . . . .	1				
53 468	4 Steel Bars . . . . .	2				
53 469	5 Steel Bars . . . . .	6				
53 470	10 Steel Cylinders . . . . .	4				
53 471	22 Steel Cylinders . . . . .	1	53 519		Apparatus for Demonstrating the Lissajous Curves . . . . .	1
53 476	Pipe for the Higher Tones . . . . .	1	53 520		Kaleidophone . . . . .	1
53 477	idem, small . . . . .	1	53 521		idem . . . . .	1
53 478	Galton's Whistle . . . . .	—	53 522		Universal Kaleidophone, after Melde . . . . .	1
53 479	idem, new improved pattern . . . . .	3	53 523		Pendulum Apparatus . . . . .	4
53 480	Dust Figure Apparatus . . . . .	1	53 524		Apparatus for Demonstrating the Lissajous Figures . . . . .	3
<b>Tonometric Apparatus and Resonators.</b>			53 525		idem . . . . .	6
53 481	Tone Variators after Prof. Stern . . . . .	1	53 526		idem after Pfaundler . . . . .	4
53 482	idem . . . . .	—	53 528	Electric Glow Lamp . . . . .	3	
53 483	idem . . . . .	—	53 530	Tuning Fork Apparatus . . . . .	1	
53 484	idem . . . . .	4	53 541	Tuning Fork Apparatus for subjective and objective Demonstration . . . . .	1	
53 485	idem . . . . .	2	53 543	Tuning Fork Apparatus . . . . .	2	
53 486	idem . . . . .	4	53 544	Large Tuning Fork Apparatus . . . . .	—	
53 487	idem . . . . .	3	53 552	7 Tuning Fork Curves on Stand . . . . .	7	
53 489	idem, simple pattern . . . . .	2	53 553	Chronographic Tuning Fork . . . . .	—	
53 490	idem . . . . .	1	53 554	idem . . . . .	3	
53 491	idem . . . . .	2	53 559	Recording Device for Determining the Frequency of a Tuning Fork . . . . .	—	
53 493	idem . . . . .	3	53 567	Vibrograph after Duhamel . . . . .	3	
53 494	idem . . . . .	1	53 574	Vibration Microscope . . . . .	1	
53 500	Overtone Apparatus . . . . .	1	53 575	Vibration Microscope . . . . .	1	
53 501	idem . . . . .	1	53 576	idem, after Weinhold . . . . .	1	
53 507	3 Resonators . . . . .	4	53 583	Sound Analysis Apparatus after König . . . . .	2	
53 508	Resonance Tube on Base . . . . .	4	53 584	idem, larger . . . . .	1	
53 509	Tuning Fork for above . . . . .	1	53 586	Vowel Apparatus after von Helmholtz, with 10 harmonic tones . . . . .	1	
53 510	Tuning Fork $c_2$ . . . . .	2	53 587	Telephone after Ph. Reis . . . . .	1	
53 511	idem, $g_2$ . . . . .	1	53 589	Small Edison Phonograph . . . . .	2	
53 512	9 Resonators conical, open . . . . .	3	53 592	Gramophone with Clockwork . . . . .	—	
53 513	9 Resonators . . . . .	5	53 595	Sound Interference Tube . . . . .	2	
53 514	11 Cylindrical Resonators . . . . .	1	53 596	idem . . . . .	3	
53 516	19 Resonators for Pipe No. 53282 . . . . .	3	53 598	idem, after Nörrenberg . . . . .	1	
53 518	14 Universal Resonators after König . . . . .	1	53 599	Sound Interference Apparatus after Drenteln . . . . .	1	

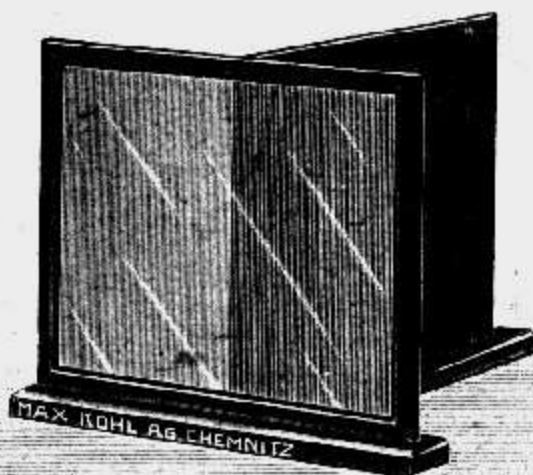
No.	Object	Piece	No.	Object	Piece
53 600	Sound Interference Apparatus with Tuning Fork and Receiver Membrane . . . . .	4	53 610	Acoustic Reaction Wheel . . . . .	12
53 601	Apparatus for Comparing Two Tones of Pipes . . . . .	1	53 611	idem . . . . .	4
53 602	Fork-shaped Tube . . . . .	4	53 612	idem . . . . .	7
53 603	Sound Interference Apparatus after König . . . . .	1	53 613	Resonator with 4 Apertures . . . . .	1
53 608	Device for Acoustic Attraction and Repulsion . . . . .	2	53 614	Glass Cylinder . . . . .	2
53 609	Device for Acoustic Attraction and Repulsion for Gases . . . . .	4	53 615	Stand with Steel Pivot . . . . .	5
			53 617	Small Paper Wheel . . . . .	2
			53 618	Glass Resonator . . . . .	3
			53 619	Resonator for Tone $g_1$ . . . . .	2
			53 620	Massive Tuning Fork $g_1$ . . . . .	2
			53 621	Sound Radiometer . . . . .	2
			53 623	Phonometer . . . . .	1

Optics.

Propagation and Intensity of Light.

53 624	1 Photometer Screen . . . . .	3
53 625	Sal-ammoniac Vapour Apparatus	6
53 626	Apparatus for Demonstrating the Rectilinear Propagation of Light . . . . .	4
53 627	Apparatus after Grimschl for Determining the Ratio of the Velocity of Light in Air and Water . . . . .	4
53 628	idem, for air and glass . . . . .	2
53 630	Aperture Goniometer after Gotschlich . . . . .	5
53 631	Photometer . . . . .	1
53 633	Photometer after Wingen . . . . .	—
53 634	idem, with Hefner Lamp . . . . .	1
53 635	3 Demonstration Photometers after Lambert . . . . .	—
53 637	Photometer after Bunsen . . . . .	4
53 639	idem . . . . .	1
53 643	Photometer after Rumford . . . . .	1
53 645	Photometer after Foucault . . . . .	3
53 646	Photometer after Ritchie . . . . .	5
53 647	Demonstration Photometer . . . . .	4
53 648	Diffusion Photometer . . . . .	—
53 649	Photometer after Wheatstone . . . . .	5
53 651	Flicker Photometer Head . . . . .	—
53 652	Lummer - Brodhun Photometer Head . . . . .	2
53 653	idem . . . . .	5
53 654	Photometer after Leonh. Weber . . . . .	2
53 655	Photometer after Rousseau . . . . .	1

53 656	Glow Lamp Photometer . . . . .	—
53 658	Angle Mirror . . . . .	1
53 660	Glow Lamp for use as Comparison Lamp . . . . .	1
53 663	Hefner Lamp . . . . .	3
53 664	idem . . . . .	5
53 665	idem . . . . .	5
53 667	Hefner Lamp verified . . . . .	11
53 668	Hefner Lamp . . . . .	2
53 672	Optical Bench . . . . .	1
53 673	idem . . . . .	1
53 674	idem . . . . .	—
53 675	idem . . . . .	4
53 676	idem . . . . .	2
53 677	Optical Bench 3 m long . . . . .	2



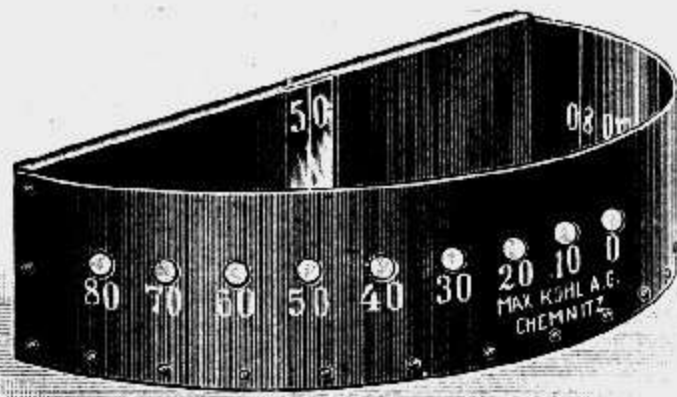
53 644. 1: 15.

53 678	Photometrical Accessories with electric light . . . . .	12
53 680	Photometer Screen after Töpler . . . . .	11
53 681	Photometrical Accessories for Gas Light . . . . .	5

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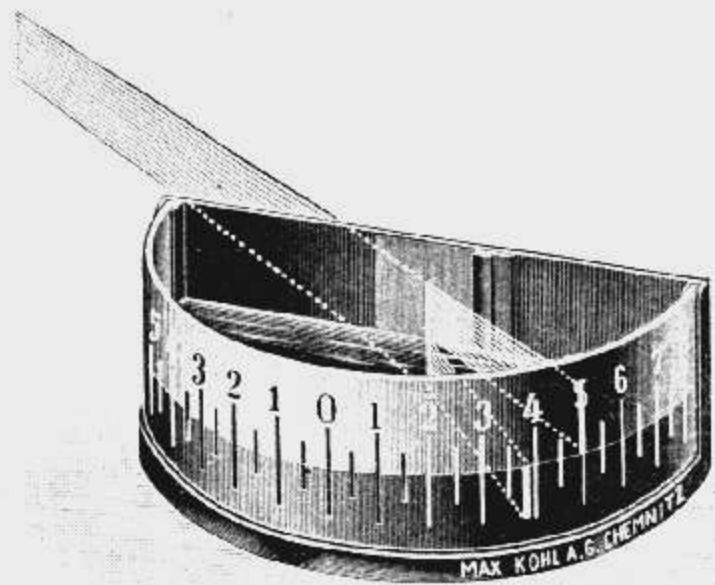
No.	Object	Piece	No.	Object	Piece
53 683	Bunsen Photometer Head . . . . .	2	53 741	Parallel Mirrors . . . . .	1
53 686	Stands, smaller ones . . . . .	372	53 743	Kaleidoscope . . . . .	1
	Stands, bigger ones . . . . .	22	53 744	idem . . . . .	1
53 687	Glow Lamp for 110 volts . . . . .	10	53 745	idem, good pattern, on stand . . . . .	7
53 688	Perforated Cylinder . . . . .	—	53 746	Projection Kaleidoscope . . . . .	8
53 689	Perforated Cylinder . . . . .	11	53 747	Kaleidoscope . . . . .	1
53 690	Diaphragmic Cylinder . . . . .	2	53 748	Conical Mirror . . . . .	4
53 691	idem . . . . .	3	53 749	Cylindrical Mirror . . . . .	1
53 692	2 Greens . . . . .	7	53 750	Parabolic and Cylindrical Mirror . . . . .	6
53 693	4 Lenses in brass mounts with Haft . . . . .	13	53 751	Parabolic and Circular Mirror Ring . . . . .	4
53 694	Convex Lens . . . . .	5	53 752	Model of a Concave Mirror . . . . .	8
53 695	Lens Holder with Haft . . . . .	7	53 753	Model of a Convex Mirror . . . . .	6
53 696	Optical Bench . . . . .	—	53 754	Concave Mirror, 60 mm diameter . . . . .	4
53 698	Arc Light . . . . .	1	53 755	idem, 90 mm diameter . . . . .	6
53 699	Rectangular Platinum Wire Glow-Light . . . . .	2	53 756	Spherical Concave Mirror . . . . .	5
53 703	Incandescent Gas Lamp . . . . .	1	53 757	Concave Mirror, 150 mm diameter . . . . .	—
53 705	Prism, Disc and Cylinder of Card-board . . . . .	6	53 760	Convex Mirror, 120 mm diameter . . . . .	—
53 706	Photometer Screen . . . . .	1	53 762	Concave and Convex Mirror, 60 mm diameter . . . . .	1
	<b>Reflection of Light.</b>		53 763	Concave and Convex Mirror, 90 mm diameter . . . . .	3
53 707	Apparatus for Explaining the Laws of Reflection, after Weinhold . . . . .	3	53 764	idem, 120 mm diameter . . . . .	6
53 708	idem, after J. Müller . . . . .	4	53 765	idem, 150 mm diameter . . . . .	—
53 709	idem, after Tyndall . . . . .	10	53 767	Concave Mirror, 100 mm diameter . . . . .	—
			53 768	idem, 150 mm diameter . . . . .	—
			53 769	Convex Mirror, 100 mm diameter . . . . .	13
			53 770	idem, 150 mm diameter . . . . .	9
			53 771	Concave and Convex Mirror, 100 mm diameter . . . . .	14
			53 772	idem, 150 mm diameter . . . . .	4
			53 775	Convex Mirror on Stand, 100 mm diameter . . . . .	4
			53 777	Concave and Convex Mirror on Stand, 100 mm diameter . . . . .	6
			53 778	Convex Mirror . . . . .	2
			53 779	Spherical Concave Mirror . . . . .	3
			53 789	Spherical Concave Mirror, 200 mm diameter . . . . .	3
			53 791	idem, 400 mm diameter . . . . .	3
			53 794	Spherical Mirror, 100 mm diameter, on Stand . . . . .	4
			53 797	Black Mirror . . . . .	1
			53 799	Plane Mirror . . . . .	1
			53 806	Demonstration Goniometer after Weinhold . . . . .	1
			53 807	Demonstration Goniometer . . . . .	1
			53 810	idem, small pattern . . . . .	1
			53 812	idem . . . . .	—



53 707. 1:4.

53 710	Reflection Apparatus after Stahlberg . . . . .	3
53 712	idem, after Friedr. C. G. Müller . . . . .	3
53 713	Polemoscope . . . . .	1
53 737	Angle Mirrors . . . . .	7
53 738	idem . . . . .	4
53 739	idem . . . . .	2
53 740	Angle Mirror and Parallel Mirror . . . . .	11

No.	Object	Piece	No.	Object	Piece
53 813	Simple Goniometer for students' use after Noack . . . . .	4	53 845	Refraction and Reflection Apparatus after Grimsehl . . . . .	—
53 816	Accessories for Magnetic and Electric Experiments . . . . .	1	53 846	Rectangular Glass Vessel . . . . .	5
53 818	Goniometer and Spectrum Apparatus . . . . .	2	53 847	Apparatus for showing the curvilinear path of the rays through a medium of unequal optical density . . . . .	1
53 819	Reflecting Goniometer . . . . .	1	53 848	10 Bottles, with Glycerine-Water mixtures . . . . .	6
53 820	idem . . . . .	3	53 849	Apparatus for Reflection and Refraction in Water . . . . .	3
53 821	idem, simple . . . . .	1	53 850	Light-Refraction Apparatus after Tyndall . . . . .	4
53 824	Reflecting Goniometer for the Laboratory . . . . .	2	53 851	Light-Refraction Apparatus . . . . .	1
53 825	Centering Device . . . . .	2	53 852	idem, after Mach . . . . .	2
53 826	Reflecting Goniometer . . . . .	3	53 853	Apparatus for Determining the Refractive Indices of Liquids, after Blümel . . . . .	—
53 827	Reflecting Goniometer . . . . .	3	53 855	Apparatus for the Laws of Refraction, etc. . . . .	—
53 829	Mirror Sextant . . . . .	12	53 856	Apparatus for the Laws of Refraction, Reflection . . . . .	2
53 832	Pocket Heliotrope . . . . .	1	53 857	Reflection and Refraction Apparatus . . . . .	4
			53 858	idem, after Silbermann . . . . .	5
			53 859	Optical Disc after Hartl . . . . .	3
			53 860	Addition to the Optical Disc . . . . .	4
			53 861	Reflector . . . . .	—
			53 862	Polarisation Apparatus . . . . .	7
			53 863	Rapidly annealed Glasses . . . . .	—
			53 864a	Projection Lens . . . . .	—
			53 865	Universal Optical Apparatus after Rosenberg . . . . .	2
			53 867	Universal Optical Apparatus after Rosenberg, larger pattern . . . . .	1
			53 868	Apparatus for Demonstration of the Refraction of Light in Glass and in a Glass Prism . . . . .	3
			53 870	Glass Plate for Refraction Experiments . . . . .	1
			53 871	Light-Refraction Apparatus after B. Kolbe . . . . .	7
			53 872	idem, with glass disc 240 mm diameter . . . . .	2
			53 874	Light-Refraction Apparatus after Reusch . . . . .	4
			53 876	Apparatus for Refraction in Plane Glasses . . . . .	7
			53 878	Collection of Apparatus for Demonstrating the Laws of Reflection and Refraction . . . . .	1



53 833. 1:7.

**Refraction, Total Reflection**

53 833	Light-Refraction Apparatus, after Müller . . . . .	5
53 834	idem, entirely of glass . . . . .	13
53 836	idem, after Neumann . . . . .	2
53 837	Light-Refraction Trough after Neumann . . . . .	4
53 838	Rectangular Glass Box . . . . .	9
53 839	Rectangular Glass Box for Experiments on Refraction and Total Reflection . . . . .	8
53 840	Rotary Mirror . . . . .	4
53 841	Refraction Box after Stahlberg . . . . .	1
53 842	idem, without Watch Glasses . . . . .	1
53 843	Light-Refraction Apparatus . . . . .	2
53 844	Refraction and Reflection Apparatus after Weinhold . . . . .	3

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No.	Object	Piece	No.	Object	Piece
53 880	Small Tube with Cedarwood Oil	—	53 932	Supplementary Apparatus . . .	5
53 881	2 Glass Plates . . . . .	3	53 932a	Fillet with 2 lens mounts . . .	4
53 882	Prism . . . . .	39	53 932b	30 Lenses, in box . . . . .	—
53 883	Apparatus for Total and Partial Reflection in Glass Rods . . .	4	53 932c	2 Glow Lamp Holders and 1 Lens Mount . . . . .	—
53 884	2 Rectangular Prisms of Plate Glass . . . . .	2	53 934	Total Reflectometer after Kohlrausch . . . . .	—
53 885	idem . . . . .	1	<b>Spectrum Analysis and Synthesis.</b>		
53 886	Glass Cube, after Rosenberg . . .	18	53 935	Glass Prism . . . . .	—
53 888	Glass Box for Total Reflection	3	53 936	Plate Glass Prism . . . . .	—
53 889	Built-up Model of a Convex Lens and of a Concave Lens . . .	5	53 938	idem . . . . .	4
53 890	Model of a Convex Lens . . . . .	3	53 941	Plate Glass Prism . . . . .	1
53 891	Model of a Concave Lens . . . . .	4	53 942	idem, long pattern . . . . .	4
53 892	Demonstration Apparatus for the Refraction of Light . . . . .	4	53 943	idem . . . . .	—
53 893	2 Slabs with Pair of Pulleys and velvet Supports . . . . .	4	53 944	idem . . . . .	4
53 894	6 Lenses, 50 mm diameter . . . . .	—	53 949	Crown Glass Prism, 30 mm length	7
53 896	6 Lenses, 40 mm diameter . . . . .	—	53 950	idem, 35 mm length . . . . .	2
53 897	idem . . . . .	12	53 953	idem, 50 mm length . . . . .	3
53 898	Plano-Convex-Lens 200 mm diameter . . . . .	4	53 955	Crown Glass Prism, long pattern, 25 × 50 . . . . .	1
53 899	Achromatic Lens System, 30 mm diameter . . . . .	3	53 956	idem, 30 × 60 . . . . .	3
53 900	idem, 40 mm diameter . . . . .	1	53 957	idem, 35 × 70 . . . . .	1
53 901	Achromatic Lens . . . . .	2	53 958	Crown Glass Prism, long pattern	—
53 902	Achromatic Lens, 60 mm diameter	3	53 960	idem . . . . .	—
53 903	idem, 70 mm diameter . . . . .	5	53 962	Flint Glass Prism . . . . .	9
53 904	idem, 80 mm diameter . . . . .	3	53 963	Flint Glass Prism, 35 mm length	2
53 906	Stand for above . . . . .	1	53 964	idem . . . . .	5
53 907	Cylindrical Lens, 60 mm diameter	10	53 966	idem, 50 mm length . . . . .	1
53 908	idem, 80 mm diameter . . . . .	3	53 967	idem, 60 mm length . . . . .	1
53 909	2 Convex Lenses, 80 mm diameter	3	53 968	idem, long pattern . . . . .	10
53 910	Hollow Lens, 50 mm diameter . . .	3	53 969	idem . . . . .	1
53 912	idem, 105 mm diameter . . . . .	1	53 972	idem . . . . .	1
53 917	Hollow Lens, plano-convex, 100 mm diameter . . . . .	1	53 977	Prism of Rock Crystal . . . . .	—
53 920	Lens Stand . . . . .	1	53 988	Prism Stands . . . . .	18
53 921	idem . . . . .	3	53 989	idem . . . . .	6
53 922	idem . . . . .	4	53 990	idem . . . . .	14
53 923	Hollow Concave Lens . . . . .	5	53 991	idem . . . . .	9
53 924	Lens Apparatus after Dr. Zwick	1	53 992	idem . . . . .	4
53 925	idem, larger Pattern . . . . .	3	53 993	idem . . . . .	1
53 926	Optical Apparatus after Dr. Zwick	2	53 994	idem . . . . .	2
53 927	idem . . . . .	—	53 996	Double Prism on Stand . . . . .	2
53 929	Optical Bench . . . . .	3	54 000	Polyprism on stand . . . . .	—
53 931	Optical Apparatus after Mach	2	54 001	idem . . . . .	1
			54 002	idem . . . . .	5
			54 003	idem . . . . .	1
			54 004	Carbon Disulphide Prism . . . . .	4

No.	Object	Piece	No.	Object	Piece
54 005	Carbon Disulphide Prism . . . . .	4	54 095	Spectrum Apparatus . . . . .	2
54 006	Hollow Prism . . . . .	1	54 096	idem . . . . .	4
54 012	Hollow Prism of Crystal Glass . . . . .	13	54 097	School Spectrum Apparatus . . . . .	19
54 013	Hollow Prism of Crystal Glass, 90 × 60 mm . . . . .	1	54 099	Spectrum Apparatus for Chemi- cal and Pharmaceutical Re- searches . . . . .	1
54 014	idem, 100 × 80 mm . . . . .	1	54 100	Spectograph . . . . .	1
54 015	Hollow Prism with Partition Wall . . . . .	4	54 101	Direct-vision Spectroscope . . . . .	—
54 029	Direct-Vision Prism after Königs- berger . . . . .	—	54 111	Spectroscope after Mousson . . . . .	2
54 033	Variable Angle Prism . . . . .	5	54 112	idem, without comparison prism . . . . .	1
54 034	idem . . . . .	—	54 113	School Spectroscope . . . . .	2
54 035	Prism Apparatus . . . . .	5	54 116	Student's Spectroscope . . . . .	—
54 036	Achromatic Prisms . . . . .	3	54 119	Pocket Spectroscope . . . . .	2
54 037	idem . . . . .	2	54 120	idem . . . . .	4
54 038	idem . . . . .	10	54 121	idem, without comparison prism . . . . .	10
54 039	idem . . . . .	5	54 128	Universal Stand for Spectrum experiments . . . . .	3
54 040a	Prism System after Amici with direct vision side abt. 10 mm . . . . .	2	54 129	Small Glass Tube with platinum lugs . . . . .	6
54 042a	idem, side abt. 20 mm . . . . .	5	54 130	Stand for holding the small glass tubes . . . . .	5
54 043a	idem, side abt. 25 mm . . . . .	5	54 131	Burner for Monochromatic light after Terquem . . . . .	2
54 044a	idem, side abt. 30 mm . . . . .	2	54 132	idem, after Noack . . . . .	1
54 052a	idem, quintuple . . . . .	5	54 133	Breitenlohner's Spirit Lamp . . . . .	7
54 060	Model of the Porro Prism-com- bination . . . . .	2	54 134	Spirit Lamp . . . . .	3
54 061	Adjustable Rotary Stage for setting up any kind of Prism . . . . .	2	54 136	Spectrum Lamp after Beckmann . . . . .	3
54 062	Pyramidal Rectangular Prism . . . . .	3	54 137	Large Spectrum Lamp for chemi- cal pulverisation . . . . .	3
54 063	Crystal Glass Cone . . . . .	3	54 138	7 Diaphragms for Relief Spectra . . . . .	1
54 066	idem . . . . .	—	54 139	Lantern for objective Chemical Spectra . . . . .	1
54 069	Rainbow Apparatus after Grim- sehl . . . . .	4	54 141	Collimator Tube with Micrometer Gap . . . . .	8
54 070	Apparatus for Demonstrating the Spectrum and the Fraunhofer Lines . . . . .	3	54 142	Mitscherlich's Apparatus . . . . .	2
54 072	Apparatus with 7 Mirrors . . . . .	2	54 143	Revolving Device on Stand . . . . .	4
54 073	idem . . . . .	8	54 144	Revolving Device for Arc Lamps . . . . .	3
54 074	idem, with three mirrors . . . . .	1	54 145	Apparatus for investigating Metal Spectra . . . . .	1
54 075	Laminated Mirror . . . . .	2	54 146	idem, simpler . . . . .	1
54 076	Top for Rotating Colour Discs . . . . .	5	54 147	Spark Tube after Delachanel and Mermet . . . . .	7
54 078	Colour Disc with Rotating Appa- ratus . . . . .	4	54 148	idem, with stand . . . . .	7
54 079	Transparent Colour Disc . . . . .	1	54 150	Sparking Pillars after Browning . . . . .	2
	<b>Spectrum Apparatus and Accessories, Spectro- meters, Spectrographs, etc.</b>		54 160	2 Sheet Iron Electrodes . . . . .	2
54 092	Spectrum Apparatus with a Rutherford Prism . . . . .	3	54 161	Spectrum Tube after Geissler . . . . .	203
54 094	Spectrum Apparatus . . . . .	2	54 162	Spectrum Tube . . . . .	—
			54 163	idem, with 2 cocks . . . . .	—

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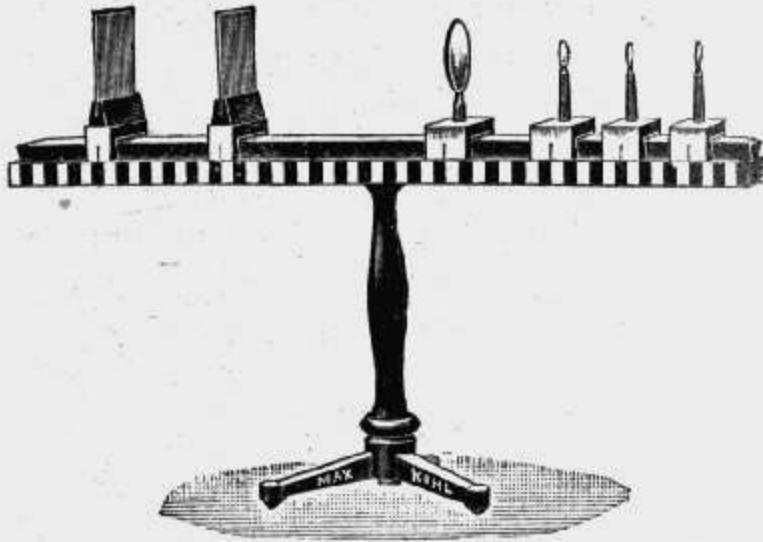
No.	Object	Piece	No.	Object	Piece
54 164	Stand for Spectrum Tubes . . .	11	54 229	Star Spectra Table . . . . .	21
54 169	Spectrum Tube with Capillary	1	54 230	idem . . . . .	20
54 173	Mercury Spectrum Lamp . . .	3	54 231	Solar Spectrum . . . . .	—
54 174	Mercury Arc Lamp . . . . .	1	54 232	idem . . . . .	2
54 176	Small Flasks with absorbent Liquids . . . . .	—	54 233	idem, transparent . . . . .	9
54 177	Small Flasks with absorbent Liquids . . . . .	—	<b>Fluorescence, Phosphorescence and Photography.</b>		
54 178	idem . . . . .	—	54 234	3 Cubes . . . . .	1
54 179	Absorption Box . . . . .	1	54 235	Cube of Fluorspar . . . . .	16
54 180	Absorption Box, rectangular form	36	54 236	Cube of uranium glass . . . . .	7
54 182	Absorption Box . . . . .	7	54 237	idem . . . . .	—
54 183	idem . . . . .	14	54 238	Cube of Didymium Glass . . . . .	3
54 184	Hollow Crystal Glass Cube, external size 30 mm . . . . .	12	54 239	Holder for Fluorescent Cubes . . . . .	1
54 185	idem, external size 40 mm . . . . .	14	54 240	Uranium Glass Plate . . . . .	9
54 186	Hollow Crystal Glass Cubes . . . . .	8	54 243	Collection of Fluorescent Liquids	5
54 187	idem, external size 60 mm . . . . .	4	54 244	idem . . . . .	4
54 188	idem, external size 80 mm . . . . .	7	54 245	idem . . . . .	—
54 189	Absorption Box . . . . .	3	54 246	idem . . . . .	1
54 192	Prismatic Trough . . . . .	10	54 251	Apparatus for Demonstrating the Fluorescence Spectrum of the Electric Light . . . . .	2
54 194	Absorption Vessel . . . . .	2	54 252	Violet Glass Plate 150 × 150 mm	3
54 195	Absorption Trough for filling with gases . . . . .	2	54 254	Fluorescent Portfolio . . . . .	1
54 196	Stand for holding Absorption Boxes, Troughs etc. . . . .	6	54 255	Phosphorescent Substances . . . . .	4
54 197	3 Gelatine Plates . . . . .	7	54 256	idem . . . . .	—
54 198	3 Coloured Glass Plates . . . . .	6	54 257	idem . . . . .	4
54 199	Coloured Plate . . . . .	6	54 258	Case with 6 Phosphorescent Substances . . . . .	7
54 200	idem, simpler . . . . .	8	54 261	Phosphoroscope . . . . .	1
54 203	Preparations for Spectrum Experi- ments, in box . . . . .	4	54 263	Phosphorescent Paint . . . . .	1
54 214	10 Reagents . . . . .	5	54 272	Scholars' Stand Camera . . . . .	2
54 215	6 Reagents . . . . .	8	<b>The Eye and Phenomena of Vision.</b>		
54 216	Box with Salts and Small Bottles	8	54 290	Model of the Eye . . . . .	4
54 217	Box with Tubes, small Glass Vessels and Reagents . . . . .	3	54 291	idem . . . . .	2
54 218	Collection of 18 Preparations . . . . .	5	54 292	Ophthalmotrope . . . . .	—
54 220	Apparatus for Reversal of the Sodium Line after Bunsen . . . . .	2	54 293	Device for receiving an Ox's Eye . . . . .	—
54 221	idem, after Weinhold . . . . .	10	54 294	Optical Eye after Kühne . . . . .	2
54 222	idem, after Frankland . . . . .	3	54 295	Water Chamber . . . . .	1
54 223	Sodium Tube . . . . .	1			
54 225	Bunsen-Burner with Pan an Sheet-iron Cylinder . . . . .	1			
54 226	Stand with illuminating Tube	—			
54 227	Table of Spectra. . . . .	21			
54 228	idem . . . . .	22			

No.	Object	Piece	No.	Object	Piece
54 298	Optical Eye after Lichtenecker	2	54 331	Apparatus for Eye Fatigue and the successive Colour-contrast	3
54 299	Optical Eye . . . . .	10	54 333	2 Coloured Glass Plates for simultaneous Contrast . . .	3
 <p>54 299. 1:6.</p>			54 334	Apparatus for Showing the Contrasted Colours as Coloured Shadows . . . . .	2
			54 335	Apparatus for Coloured Shadows	—
			54 336	Apparatus for Explaining the subjective Colours . . . . .	5
			54 337	Apparatus for showing the contrasted Colours . . . . .	1
			54 338	Projection Plate for Optical Illusions . . . . .	8
			54 339	2 Plates for above . . . . .	6
			54 340	idem . . . . .	8
			54 341	Cylindrical Lens with Prism .	5
			54 343	2 Plane parallel Glass Vessels for objectively Demonstrating the Colours of Pigment Mixtures	2
			54 344	Apparatus after Rosenberg . .	4
54 300	30 Drawings for showing the blind spot . . . . .	12	54 345	Apparatus for Mixing Coloured Rays and Material Colours after Rosenberg . . . . .	2
54 301	Astigmatic Test Card . . . . .	4	54 346	2 Colour Discs . . . . .	2
54 302	Device after Steinhauser . . .	5	54 347	Anaglyphon . . . . .	2
54 303	Apparatus for explaining the plastic Vision of both Eyes and of the Stereoscope. . . .	4	54 350	Colour Top with alternating mixed colour effects. . . .	1
54 304	Wheatstone's Mirror Stereoscope	1	54 354	Model of the Perspective Images with Small House . . . . .	1
54 307	Stereoscope. . . . .	11	54 355	Camera obscura . . . . .	8
54 311	12 Demonstrations of Stereoscopic Lustre . . . . .	2	<b>Optical Instruments.</b>		
54 312	36 Stereoscopic Drawings . .	3	54 358	Camera lucida . . . . .	—
54 318	Pasteboard Model of the Shroeder Step View . . . . .	1	54 359	idem, without stand . . . . .	4
54 319	Apparatus for imitating the Irradiation of the Moon's Crescent . . . . .	—	54 361	Cylindrical Magnifying Glass .	—
54 320	2 Lantern Slides . . . . .	4	54 366	Model of the Compound Microscope . . . . .	6
54 321	Disc with sectors cut out . . .	3	54 367	Model of the Galilean Telescope	6
54 324	Stroboscope . . . . .	6	54 368	Model of the Astronomical Telescope . . . . .	5
54 325	3 Extra Discs for above . . .	7	54 369	Model of the Terrestrial Telescope . . . . .	5
54 326	Projection Stroboscope . . . .	5	54 370	Model of Newton's Reflecting Telescope . . . . .	2
54 327	Anorthoscope . . . . .	2	54 371	Model of the Brachio-Telescope	3
54 328	Apparatus for Optical Fatigue and the successive Colour-contrast . . . . .	1			
54 329	White and Gray Cardboard . .	3			
54 330	6 Different Coloured Pasteboard Squares . . . . .	3			

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No.	Object	Piece	No.	Object	Piece
54 372	Model of a Meridian Circle, of wood . . . . .	1	54 505	Newton's Colour Glass . . . . .	—
54 373	idem, of metal . . . . .	1	54 506	idem . . . . .	5



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54 374	Small Weinhold Optical Bench	1
54 375	3 Ligroin Lamps . . . . .	7
54 376	Optical Bench . . . . .	4
54 377	idem . . . . .	—
54 380	Model Theodolite . . . . .	3
54 381	idem . . . . .	5
54 382	idem . . . . .	7
54 383	Stand for Model Theodolites . . . . .	3
54 385	Model Theodolite for Student's Exercises . . . . .	3
54 394	Large Microscope, Stand Ic. . . . .	1
54 399	Microscope . . . . .	1
54 406	idem . . . . .	1
54 408	Laboratory Microscope, Stand V . . . . .	4
54 440	Set of accessories for Microscopy . . . . .	3
54 441	idem . . . . .	3
54 442	idem . . . . .	2
54 443	6 Small Coloured Bottles . . . . .	2
54 448	Solar Microscope . . . . .	1
54 463	Telescope with extension . . . . .	1
54 488	Telescope . . . . .	1
54 500	Dynameter . . . . .	1

**Interference and Diffraction.**

54 501	Small Metal Frame for Soap Solution . . . . .	1
54 504	Comparison of Superficial Colours . . . . .	7

54 505	Newton's Colour Glass . . . . .	—
54 506	idem . . . . .	5
54 507	idem . . . . .	—
54 508	idem . . . . .	2
54 509	idem, rotary on stand . . . . .	4
54 510	Newton's Colour Glasses rotary on Stand . . . . .	1
54 512	Newton's Colour Glass . . . . .	1
54 513	Colour Ring Apparatus after Grimsehl . . . . .	3
54 514	Interference Apparatus . . . . .	3
54 515	idem . . . . .	—
54 516	idem . . . . .	2
54 517	Fresnel's Mirror Apparatus . . . . .	6
54 518	idem . . . . .	4
54 519	idem . . . . .	4
54 520	idem, simple . . . . .	3
54 521	idem . . . . .	4
54 522	idem . . . . .	6
54 523	Interference Mirror after Fresnel . . . . .	3
54 524	idem . . . . .	2
54 525	Ocular Micrometer after Fresnel . . . . .	6
54 526	Fresnel's Mirror for Students' Use . . . . .	10
54 527	Interference Apparatus after Grimsehl . . . . .	3
54 528	Screen with ground glass disc . . . . .	1
54 529	Interference Apparatus after Classen . . . . .	3
54 530	Adjustable Gap . . . . .	5
54 531	idem, with Micrometer Screw . . . . .	14
54 532	Adjustable Gap . . . . .	3
54 533	idem, with Micrometer Screw . . . . .	14
54 536	Interference Prism . . . . .	3
54 537	Billet's Half-lenses . . . . .	—
54 538	Lens of short focal length . . . . .	1
54 539	Analyser after Delezenne . . . . .	7
54 540	Large Optical Bench for Interference and Diffraction Experiments . . . . .	—
54 544	Diffraction Apparatus . . . . .	2
54 545	idem . . . . .	1
54 546	Nickelled Metal Sphere . . . . .	2
54 547	Diffraction Apparatus, after Hoffmann . . . . .	1
54 548	idem, after Grimsehl . . . . .	5
54 549	idem, for Student's Use, after Grimsehl . . . . .	3

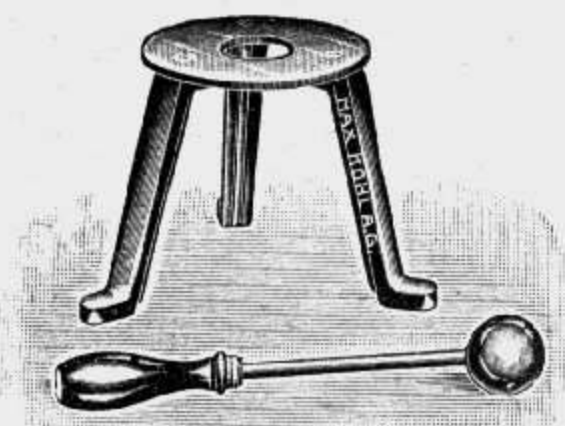
No.	Object.	Piece	No.	Object	Piece
54 552	Glass Grating . . . . .	—		<b>Paalzow Optical Benches.</b>	
54 553	idem . . . . .	—			
54 558	Double Grating . . . . .	—	54 634	Large Paalzow Optical Bench	1
54 559	Wire Grating . . . . .	1	54 642	Fresnel's Press . . . . .	1
54 560	Photographed Grating after Nobert	4	54 643	Glass Bending Press . . . . .	4
54 561	Copy of a genuine Rowland Grating . . . . .	4	54 644	Black Mirror . . . . .	3
54 584	Dust Glass . . . . .	3	54 645	idem . . . . .	3
	<b>Polarisation of Light.</b>		54 646	Column of Glass Plate . . . . .	4
54 590	Polarisation Apparatus . . . . .	—	54 647	idem . . . . .	6
54 593	idem . . . . .	—	54 648	2 Double-refracting Prisms . . . . .	3
54 594	Demonstration Polariser after Grimsehl . . . . .	8	54 649	idem . . . . .	3
54 595	Demonstration Analyser after Grimsehl . . . . .	3	54 650	Right- and Left-rotating quartz plate . . . . .	1
54 596	Plate of Mirror Glass with Haft	3	54 651	Small Window . . . . .	4
54 597	Glass Tube for Polarisation Ex- periments with Liquids . . . . .	3	54 652	Nicol with sharp edges . . . . .	5
54 599	Demonstration Polarisation Appa- ratus . . . . .	—	54 653	Observation Tube . . . . .	1
54 600	Simple Polarisation Apparatus	3	54 654	8 Rapidly Annealed Glasses . . . . .	1
54 602	Large Projection - Polarisation Apparatus . . . . .	2	54 655	2 Crossed Annealed Glasses . . . . .	1
54 603	Polarisation Apparatus after Nörrenberg . . . . .	5	54 656	Rock Crystal . . . . .	1
54 603a	Polarisation Apparatus with Glass Plate Column . . . . .	2	54 657	Aragonite . . . . .	1
54 605	Polarisation Apparatus after Nörrenberg . . . . .	2	54 658	Calc-spar . . . . .	1
54 606	idem . . . . .	2	54 659	Gypsum with movable hyperbolae	2
54 607	idem . . . . .	6	54 660	2 Gypsum Plates . . . . .	1
54 608	idem . . . . .	6	54 661	idem, $\frac{1}{4}$ wave length . . . . .	1
54 609	idem . . . . .	7	54 662	2 Gypsum Figures . . . . .	1
54 612	Simple Polarisation Apparatus	4	54 665	Stage for prisms . . . . .	4
54 613	Polarisation Apparatus for Students' Use . . . . .	4	54 668	Complete Installation for Inter- ference and Diffraction Experi- ments . . . . .	1
54 614	Column of Glass Plates . . . . .	1	54 670	Polarisation Apparatus with Divided Circle . . . . .	2
54 615	Black Mirror . . . . .	3	54 684	Gas Sodium Lamp . . . . .	1
54 616	idem . . . . .	1		<b>Double Refraction, Preparations.</b>	
54 618	Microscopic Polarisation Apparatus	1	54 687	Model showing the passage of converging polarised Light through a Calc-spar Plate, etc.	1
54 622	Tourmaline Tongs . . . . .	10	54 689	10 Pasteboard Models . . . . .	5
54 623	idem . . . . .	5	54 690	2 Plaster Models . . . . .	3
54 624	idem, with 6 different preparations	4	54 691	2 Wood Prisms . . . . .	2
54 627	Wedge Compensator after Babinet	7	54 692	Model of the Vibration Planes of the Light . . . . .	4
54 628	Compensator after Soleil . . . . .	—	54 693	Glass Plate with Letters and Calc-spar Plate . . . . .	12
54 629	Polariscope . . . . .	2	54 700	Dichroscopic Magnifier . . . . .	5
54 633	Fresnel's Parallelepiped . . . . .	—			

No.	Object	Piece	No.	Object	Piece
54 703	Apparatus after Beer . . . . .	3	54 750	Glan-Thompson Prism . . . . .	—
54 731	Nicol Prism . . . . .	—	54 754	Mounts for Nicol Prism . . . . .	2
54 733	idem . . . . .	19	54 775	Calc-spar Cube . . . . .	—
54 735	idem . . . . .	19	54 778	Quartz Lens . . . . .	1
54 737	idem . . . . .	6	54 780	idem . . . . .	—

Heat.

General.  
Thermal Expansion.

54 785	Brass Sphere with Ring . . . . .	3
54 786	idem, larger . . . . .	—



54 787. 1: 6.

54 787	Brass Sphere on stem . . . . .	8
54 788	Glass Sphere with tube closed at top . . . . .	7
54 789	Glass Sphere with Capillary Tube . . . . .	15
54 790	idem, without filling . . . . .	10
54 791	Square formed of Tubes . . . . .	9
54 792	Air Thermoscope . . . . .	4
54 793	Thermoscope after Drebber . . . . .	3
54 794	Tyndall's Apparatus for showing the Expansion of Gases . . . . .	—
54 795	Contraction Apparatus after Tyndall . . . . .	13
54 796	4 Bunsen Burners . . . . .	4
54 796a	Simple Stand . . . . .	—
54 797	Contraction Apparatus . . . . .	12
54 798	idem . . . . .	2
54 799	Pyrometer . . . . .	6
54 800	idem . . . . .	7
54 801	3 Bars . . . . .	—
54 802	Pyrometer with 2 Pointers . . . . .	12
54 803	Pyrometer, steam heated . . . . .	14
54 805	Drum Pyrometer . . . . .	6

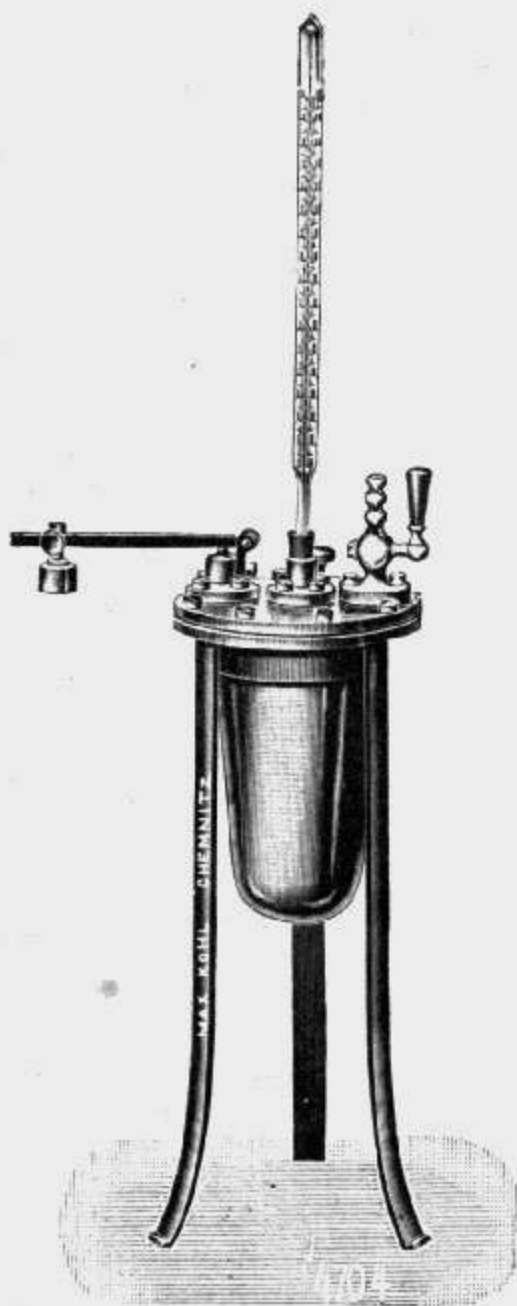
54 806	Apparatus for measuring the linear Expansion of Rigid Bodies . . . . .	3
54 807	Tube Expansion Apparatus . . . . .	2
54 808	Apparatus for the Linear Expansion of Steel and Zinc . . . . .	2
54 809	idem, smaller . . . . .	2
54 810	Apparatus for determining the Linear Expansion Coefficient of Bars . . . . .	2
54 811	idem . . . . .	2
54 813	Dilatometer . . . . .	2
54 814	Weight Dilatometer . . . . .	4
54 815	idem . . . . .	1
54 816	idem . . . . .	1
54 817	idem . . . . .	5
54 818	3 Expansion Flasks . . . . .	2
54 819	Projection Water Dilatometer . . . . .	5
54 821	Compensated Water Dilatometer . . . . .	15
54 822	idem . . . . .	—
54 823	Glass Cylinder with Heating Device . . . . .	10
54 824	Glass Cylinder with Cooling Ring . . . . .	6
54 825	2 Thermometers with annular, horizontally arranged Vessels . . . . .	2
54 826	Thermoscope after Weinhold . . . . .	10
54 827	Apparatus after Wais . . . . .	5
54 829	Lantern Slide . . . . .	6
54 830	Apparatus after Weinhold . . . . .	2
54 831	Glass Tube for showing the Circulation of Water . . . . .	12
54 832	idem . . . . .	6
54 833	Overflow Apparatus after Schäffer . . . . .	2
54 834	Hot water Heating . . . . .	2
54 835	Apparatus for showing the Expansion of Mercury . . . . .	4
54 836	idem, after Dulong and Petit . . . . .	1
54 837	Apparatus after Rühlmann . . . . .	—
54 838	Apparatus for determining the Expansion Coefficient of Gases . . . . .	4

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No.	Object	Piece	No.	Object	Piece
54 839	Apparatus for determining the Expansion Coefficient of Gases	4	54 886	Electric contact Thermometer .	1
54 840	idem, after Regnault . . . . .	1	54 887	Boiling point Determination Apparatus for Thermometers	1
54 841	Gas Dilatometer . . . . .	3	54 888	idem . . . . .	2
54 842	Apparatus for determining the Expansion Coefficient of Gases after Regnault . . . . .	2	54 889	Freezing Point Determination Apparatus . . . . .	4
54 844	Gas Dilatometer . . . . .	2	54 891	Strips of Steel and Zinc . . .	29
<b>Thermometers, Pyrometers and Thermoscopes.</b>			54 892	idem, of Steel and Ebonite . .	6
54 845	Thermometer Tube . . . . .	35	54 893	Strips of Steel and Zinc . . .	3
54 846	Thermometer with ground milk-glass plate . . . . .	1	54 894	Metallic Thermometer . . . . .	—
54 847	The Thermometer in 7 Stages of Construction . . . . .	2	54 895	idem, with electric contact . .	1
54 848	Thermometer with 3 Scales . .	—	54 896	Metallic Thermometer after Bréguet . . . . .	6
54 849	Demonstration Thermometer . .	2	54 898	Metallic contact Thermometer	1
54 850	idem . . . . .	14	54 900	Air Thermometer after Régnault	3
54 851	idem . . . . .	5	54 903	idem, after Jolly . . . . .	1
54 852	Water Thermometer . . . . .	2	54 904	idem . . . . .	1
54 853	Water Thermometer and Mercury Thermometer . . . . .	5	54 909	Self-correcting Air Thermometer	3
54 854	3 small Thermometers . . . . .	12	54 910	idem . . . . .	—
54 855	Projection Thermometer . . . . .	4	54 945	Pyrometer after Wedgwood . .	3
54 856	idem . . . . .	5	54 947	Seeger Cones, one set . . . . .	—
54 857	idem . . . . .	12	54 948	Water Pyrometer after Siemens	2
54 858	Cylindrical Thermometer . . . .	25	54 949	idem, after Fischer . . . . .	2
54 859	idem . . . . .	18	54 950	Thermoscope after Weinhold . .	—
54 860	idem . . . . .	31	54 952	Leslie's Differential Thermometer	22
54 861	idem . . . . .	1	54 953	Dilatation Thermometer . . . .	7
54 862	idem . . . . .	9	54 954	Differential Thermoscope . . . .	5
54 864	idem . . . . .	2	54 955	Double Thermoscope after Looser	10
54 866	idem . . . . .	—	54 957	Accessories . . . . .	3
54 867	Standard Thermometer . . . . .	1	54 957a	idem . . . . .	—
54 868	idem . . . . .	3	54 958	idem . . . . .	30
54 869	idem . . . . .	22	54 959	idem . . . . .	4
54 870	idem . . . . .	1	54 959a	idem . . . . .	3
54 872	Thermometer for screwing to the window . . . . .	3	54 960	2 Crystal Plates . . . . .	1
54 877	1 Maximum and 1 Minimum Thermometer . . . . .	4	54 962	Accessories . . . . .	4
54 878	Thermometrograph after Six . .	12	54 962a	Small Collection of Accessories for Experiments on Radiant Heat . . . . .	3
54 879	idem . . . . .	2	54 963	Accessories . . . . .	8
54 880	Minimum Thermometer . . . . .	5	54 963a	idem . . . . .	12
54 881	Maximum Thermometer . . . . .	5	54 964	idem . . . . .	—
54 884	Small Thermograph . . . . .	1	54 965	idem . . . . .	6
			54 965a	idem . . . . .	7
			54 966	Accessories for Heat Experiments on Condensation of Gases and Vapours . . . . .	4
			54 967	Accessories . . . . .	8
			54 967a	idem . . . . .	2
			54 968	idem . . . . .	5

No.	Object	Piece	No.	Object	Piece
54 968a	Small Collection of Accessories for Experiments on Thermal Effects of the Electric Current	25	55 017	Iron Sphere alone . . . . .	437
54 969	Accessories . . . . .	5	55 018	Cooling Vessel . . . . .	1
54 969a	idem . . . . .	1	55 025	Wood's Metal . . . . .	1
54 970	Accessories for various Experiments . . . . .	7	55 026	Mousson's Apparatus . . . . .	3
54 971	Accessories . . . . .	—	55 027	Small Thermocouple . . . . .	6
54 972	Dew Point Finder . . . . .	2	55 028	Wood Frame, Hook and Wire	4
54 973	Differential and Double Thermoscope after Kolbe . . . . .	6	55 029	3 Moulds for Ice Regulation .	7
54 975	General Accessories for Experiments on Heat . . . . .	7	55 030	2 Iodine Tubes . . . . .	5
54 976	Accessories . . . . .	2	55 031	Steam Barometer . . . . .	—
54 977	Board with 15 Brass Sockets .	1	55 032	Detonation Balls . . . . .	5
54 978	Alum Slab . . . . .	2	55 033	Copper Dish with Wire Triangle	—
54 979	Gypsum Slab . . . . .	5	55 034	Aluminium Dish . . . . .	2
54 980	Mica Slab . . . . .	7	55 036	Apparatus after Boutigny for the Leidenfrost Experiment	1
54 981	Rock Crystal Slab . . . . .	10	55 037	Apparatus after Weinhold . .	4
54 982	idem . . . . .	9	55 038	idem . . . . .	2
54 984	Accessories . . . . .	—	55 039	Apparatus after Dalton-Régnault	3
54 986	idem . . . . .	—	55 040	Apparatus after Dalton . . . .	2
54 991	idem . . . . .	—	55 041	Apparatus for Measuring the Tension of Vapour form Salt Solutions . . . . .	1
54 992	6 further Metal Rods . . . . .	2	55 042	Apparatus after Gay-Lussac . .	—
54 993	Accessories . . . . .	—	55 043	Dalton's Law Apparatus . . . .	—
54 994	idem . . . . .	—	55 044	idem, after Frick . . . . .	7
54 995	idem . . . . .	—	55 045	Apparatus for Measuring the Vapour Tension . . . . .	3
54 997	idem . . . . .	1	55 046	Apparatus for Measuring the Tension of Water Vapour .	7
54 998	idem . . . . .	—	55 047	idem, on stand . . . . .	1
54 999	Sextuple Manometer . . . . .	2	55 048	Apparatus for the Tension of Water Vapour . . . . .	1
55 000	6 Receivers with Metal Rods .	2	55 049	Apparatus after Gay-Lussac . .	3
55 001	Copper Rod with 6 Receivers .	2	55 050	idem . . . . .	5
55 002	Tall Glass Vessel with 6 Receivers	2	55 051	Tube after Lehmann . . . . .	2
55 003	6 Tube Receivers with Metal Wires . . . . .	2	55 052	idem . . . . .	2
55 005	6 Double Glass Vessels . . . .	2	55 053	Apparatus after Dalton . . . .	2
55 010	Colour Thermoscope . . . . .	3	55 054	Apparatus for Measuring the Expansibility of Saturated Steam, after Régnault . . . .	—
55 011	10 thermoscopic coloured Sheets	2	55 055	Apparatus after Gay-Lussac and Thénard . . . . .	3
55 012	Autogram Discs for colour thermoscopes . . . . .	6	55 057	Apparatus for Showing the Equilibrium of Vapour Tensions	5
55 013	Sensitive thermoscopic Sound .	2	55 058	Boiling Vessel . . . . .	4
	<b>Change of State.</b>		55 059	Apparatus for Delaying Ebullition by a Soap Solution . . . . .	2
55 014	Freezing Thermometer . . . . .	4	55 060	Apparatus for Retarding Ebullition with pure Water . . . .	2
55 015	idem . . . . .	14	55 061	idem . . . . .	9
55 016	Hollow Iron Sphere with closing screw . . . . .	27			

No.	Object	Piece	No.	Object	Piece
55 062	Water Hammer . . . . .	4	55 075	Device after Faraday . . . . .	1
55 063	idem . . . . .	6	55 076	Apparatus for Freezing Mercury by Evaporating Sulphurous Acid . . . . .	6
55 064	idem . . . . .	2	55 077	idem . . . . .	5
55 065	Pulse Hammer . . . . .	8	55 078	idem . . . . .	2
55 066	Apparatus for Showing that the Boiling Point of Salt Solutions is higher than of pure Water . . . . .	6	55 079	Melting Point Determination Apparatus . . . . .	4
55 067	Apparatus for Determining Boiling Point . . . . .	3	55 080	Apparatus for Producing Ice . . . . .	6
55 068	Apparatus for Ebullition under low Pressure at low Tempe- rature . . . . .	4	55 081	Thin-walled Dish . . . . .	—
			53 076	Refrigerator after Weinhold . . . . .	—
			55 083	Apparatus for the Retardation of Freezing. . . . .	—
			55 084	Cryophorous after Wollaston . . . . .	7
			55 085	Cryophorous after Weinhold . . . . .	2
			55 086	idem, after Grimsehl . . . . .	3
			55 087	Sulphuric Acid Cryophorous . . . . .	5
			55 088	Apparatus for Evaporating Ice . . . . .	1
			55 089	idem . . . . .	1
			55 090	Andrews' Press . . . . .	9
			55 091	Carbonic Acid Generator . . . . .	1
			55 094	Tipping Device for the Carbonic Acid Cylinder . . . . .	1
			55 095	Stamp, Plate, Mould and Frame . . . . .	5
			55 096	Apparatus for Demonstrating the Liquefaction of Gases, after Cailletet . . . . .	—
			55 103	Demonstration Apparatus for Generating Liquid Air after Olszewski . . . . .	1
			55 104	Cylindrical Beaker after Dewar . . . . .	1
			55 106a	Cylindrical Beaker with Evacuated Double Wall . . . . .	1
			55 106b	idem, with Polished Wood Base . . . . .	1
			55 115	idem, after Weinhold . . . . .	2
			55 116	Double-walled Capsule . . . . .	1
			55 117	Lead Plate with Hammer and Porcelain Bowl . . . . .	4
			55 118	2 small Glasses, with Ether and Alcohol . . . . .	5
			55 119	Apparatus for the Liquefaction and Freezing of Oxygen . . . . .	2
			55 121	Apparatus for Freezing Water . . . . .	3
			55 123	Apparatus for the Critical Temperature Phenomena . . . . .	26
			55 123a	Protecting Case . . . . .	7
			55 124	Apparatus for the Liquefaction of Sulphurous Acid . . . . .	—
			55 125	Apparatus after Noack . . . . .	—

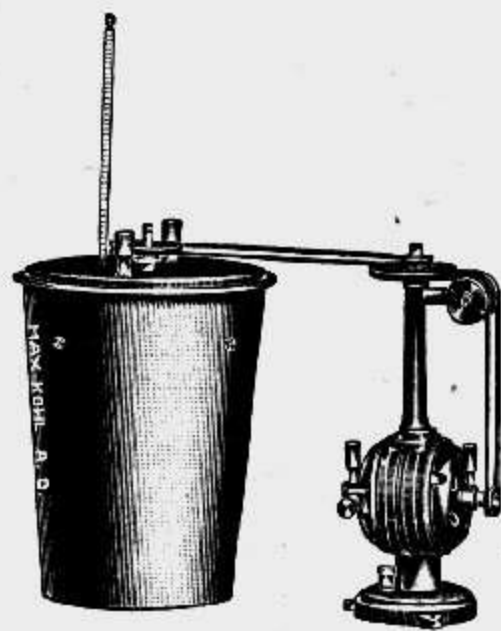


55 069. 1:6.

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No.	Object	Piece	No.	Object	Piece
55 126	Apparatus for the Liquefaction of Gases by Cooling . . .	3	55 182	Gas Calorimeter after Régnault	1
55 127	Carbonic Acid Gas Tube . . .	2	55 185	Apparatus after Clément and Désormes . . . . .	2
55 128	idem . . . . .	2	55 186	Calorimeter after Brix . . .	1
55 129	Carbonic Acid Tube . . . . .	4	55 187	Calorimeter after Schiff . . .	3
55 131	idem . . . . .	2	55 188	Berthelot's Apparatus for determination of the total Heat of Steam . . . . .	6
55 133	idem . . . . .	3	55 189	idem, electrically heated . . .	2
55 134	idem . . . . .	4	55 190	Apparatus for determining Calorific Value of Hydrogen . . .	3
55 135	Tubes with Liquefied Gases . .	12	55 192	Calorimeter after Favre and Silbermann . . . . .	1
55 136	Apparatus for Determining Gas and Vapour Densities . . . . .	1	55 193	Demonstration Calorimeter . .	2
55 137	Apparatus for Determining Vapour Density . . . . .	2	55 194	Calorimeter after Parr . . . .	7
55 138	idem . . . . .	2			
55 141	Effusimeter after Bunsen . . .	5			
<b>Specific Heat. Calorimetry. Determination of Calorific Value.</b>					
55 149	Apparatus after Tyndall . . . .	8			
55 150	Apparatus after Kolbe . . . . .	14			
55 151	Apparatus for Specific Heat, after Schoentjes . . . . .	4			
55 152	Ice Calorimeter . . . . .	7			
55 153	idem, after Bunsen . . . . .	6			
55 154	Ice Calorimeter . . . . .	10			
55 155	Heating Apparatus for Calorimetric Experiments, after Régnault . . . . .	3			
55 156	idem, after Pfaundler . . . . .	4			
55 164	Semi-cylindrically bent Plates	3	55 195	Electric Motor for 110 volts D. C.	1
55 165	Calorimeter Vessel . . . . .	2	55 197	Spare Cartridge . . . . .	7
55 166	idem . . . . .	2	55 199	Steel Cylinder for Calorimetric Experiments . . . . .	1
55 167	Calorimeter after Weinhold . .	5	55 216	Apparatus for determining the Generation of Heat by the simple Mixing of different Liquids . . . . .	1
55 168	Water Trap for No. 55 167 . . .	—	55 217	Apparatus for determining the Heat of Neutralisation . . .	1
55 169	Water Calorimeter . . . . .	4			
55 170	Double Calorimeter . . . . .	5			
55 171	3 Test Pieces . . . . .	2			
55 172	Calorimeter after Wiedemann and Ebert . . . . .	1			
55 173	Calorimeter after Régnault . .	3			
55 174	Mercury Calorimeter after Favre and Silbermann . . . . .	2			
55 175	Calorimeter for Liquids after Wiedemann . . . . .	4			
55 176	idem, after Régnault . . . . .	—			
55 177	idem, after Kopp . . . . .	4			
55 179	Calorimeter after Dulong and Petit . . . . .	5			



55194. 1:9,5.

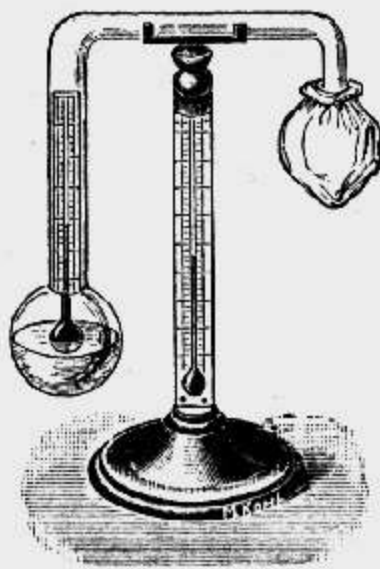
**Heat and Work.**

55 221	Apparatus after Behrendsen . .	4
55 222	Pneumatic Fire Syringe, of metal	14
55 223	idem, of glass . . . . .	8
55 224	Apparatus for showing the Action of Gunpowder . . . . .	2
55 225	Gore's Ball . . . . .	3
55 227	Apparatus after Grimsehl . . .	5

No.	Object	Piece	No.	Object	Piece
55 228	Apparatus after Christiansen . . .	—		<b>Propagation of Heat.</b>	
55 231	Apparatus after Callendar . . .	—	55 289	Apparatus for demonstrating Thermal Conduction in Metal Rods . . . . .	4
55 241	Instructional Model of a Gas Engine . . . . .	7	55 290	idem . . . . .	10
55 243	Gas Engine with Dynamo . . .	1	55 291	idem, smaller . . . . .	3
55 244	Aeolipile . . . . .	2	55 292	Apparatus with Bunsen Burner	2
55 245	Model Geyser after Wiedemann	5	55 293	Apparatus after Mühlenbein . .	2
55 246	Apparatus for demonstrating the Geyser . . . . .	5	55 294	Apparatus for showing the Conduction of Heat in Metal Rods	—
55 247	Steam Piston . . . . .	4	55 296	Apparatus for demonstrating the different Thermal Conductivity	3
55 249	Steam Piston for showing the action of Water Vapour . . .	4	55 297	Copper-Mercury Iodide . . . .	6
55 251	Sectional Model of a Steam Engine Cylinder . . . . .	6	55 298	Rods of Copper, Brass, Iron etc.	1
55 252	idem . . . . .	5	55 301	Gypsum Slab and Heating Rod	7
55 253	idem . . . . .	4	55 302	Apparatus for Explaining unequal Thermal Conduction in Crystals	2
55 254	Sectional Model of a Steam Cylinder . . . . .	5	55 303	Wood Pyramid with Brass Tube carried through . . . . .	4
55 255	Sectional Model of an Oscillating Steam Engine Cylinder . . .	3	55 304	Wood Cone for showing the Influence of Direction of Grain	2
55 256	Sectional Model of a Cylinder	1	55 305	Wire Gauze Cylinder . . . . .	4
55 256a	idem . . . . .	3	55 306	Davy's Safety Lamp . . . . .	6
55 257	idem . . . . .	1	55 307	Wolf's Safety Lamp . . . . .	5
55 258	idem . . . . .	1	55 309	Apparatus for showing Decrease of Temperature with distance from Thermal Source . . . .	4
55 259	idem . . . . .	1	55 310	Apparatus after Despretz . . .	3
55 260	idem . . . . .	2	55 311	idem . . . . .	4
55 261	idem . . . . .	1	55 312	idem . . . . .	2
55 262	idem . . . . .	1	55 313	idem . . . . .	3
55 262a	idem . . . . .	3	55 315	Apparatus for investigating the Thermal Conduction of Liquids	3
55 263	idem . . . . .	1	55 316	Tube with Heating Bulb . . . .	2
55 264	idem, after Prof. Vater . . . .	1	55 317	Apparatus for investigating the Thermal Conduction of Liquids	3
55 265	Sectional Model of a Horizontal Steam Engine . . . . .	17	55 318	Apparatus for thermal Conduction of Gases . . . . .	2
55 266	Sectional Model of a Compound Steam Engine . . . . .	1	55 319	2-Glow Lamps after Grimsehl	4
55 267	idem . . . . .	14	55 320	Apparatus for thermal Conduction of Gases . . . . .	2
55 268	Model of a Watt Low-pressure Engine . . . . .	—	55 321	idem . . . . .	1
55 271	Model Steam Engine . . . . .	11	55 325	Radiation Tube after Rebenstorff	2
55 275	Horizontal Steam Engine, $\frac{1}{10}$ HP	1	55 326	Thermal Supply for Radiant Heat	3
55 279	Sectional Model of Locomotive	3	55 328	Spherical Concave Mirror . . .	4
55 283	Locomotive Chassis . . . . .	1	55 329	idem . . . . .	6
55 285	Watt's Governor . . . . .	2	55 330	idem . . . . .	9
55 286	Parabolic Governor after Farcot	1	55 331	idem . . . . .	5
55 288	Section Model of an Injector . .	1	55 332	idem . . . . .	1



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No.	Object	Piece	No.	Object	Piece
55 333	Parabolic Concave Mirror . . .	4	55 398	Apparatus after Ritchie . . .	9
55 334	idem . . . . .	—	55 399	Thermal Radiation Apparatus .	3
55 335	idem . . . . .	5	55 400	idem . . . . .	—
55 336	idem . . . . .	6	55 401	Surface Bolometer . . . . .	1
55 337	Table for setting up Concave Mirrors . . . . .	—	55 402	idem . . . . .	3
55 338	Thermometer on Stand . . . . .	5	55 403	idem, with 4 branches . . . . .	1
55 339	Iron Wire Mantle . . . . .	2	55 404	Linear Bolometer . . . . .	3
55 342	Small Flat Flask . . . . .	20	<b>Radiometers and Radio- phonic Apparatus.</b>		
55 343	Spherical Flask . . . . .	9	55 406	Radiometer . . . . .	3
55 343a	1 Silvered and 1 blackened Glass Flask . . . . .	—	55 407	idem . . . . .	—
55 344	Thermometer in vacuo . . . . .	2	55 408	idem . . . . .	6
55 345	Plane Parallel Vessel . . . . .	6	55 411	idem, after Rebenstorff . . . . .	3
55 346	idem . . . . .	3	55 414	Radiophone after Weinhold . . .	2
55 347	Device for Absorption of Heat Rays by Coloured Glasses . . .	5	55 415	Radiophone . . . . .	2
55 348	idem . . . . .	7	<b>Meteorological Apparatus.</b>		
55 349	Apparatus for showing that air is not heated by Thermal Rays .	2	55 421	Earth Thermometer . . . . .	2
55 350	Melloni's Apparatus . . . . .	—	55 423	idem . . . . .	2
55 353	Locatelli Lamp . . . . .	5	55 425	Earth Minimum Thermometer . .	1
55 354	Weinhold Steam Capsule . . . . .	1	55 426	Spring Thermometer . . . . .	4
55 355	Stage with Stand, Platinum Spi- ral, etc. . . . .	10	55 435	Solar Radiation Thermometer . .	3
55 356b	Copper Screen . . . . .	7	55 436	idem . . . . .	1
55 358	Cube after Leslie . . . . .	19	55 437	Pair of Bulbs after Violle . . . .	1
55 359	idem . . . . .	4	55 439	Pyrheliometer after Pouillet . . .	2
55 360	idem . . . . .	4	55 441	Hypsometer after Geissler . . . .	2
55 361	Double Screen . . . . .	2			
55 362	Screen with rotary disc . . . . .	6	55 433. 1 : 6.		
55 364	Glass Tube . . . . .	3	55 443	Hygrometer after Daniell . . . . .	6
55 365	Holder for carrying Crystal and Gypsum Plates . . . . .	10	55 444	Hygrometer after Döbereiner- Régnauld . . . . .	4
55 366	Rotary Bar . . . . .	7	55 447	Hygrometer after Alluard . . . . .	—
55 367	Stages for setting up Rock Salt Prisms . . . . .	7	55 448	Capillary Hygrometer after Saus- sure . . . . .	18
55 376	Plates of Black Glass, etc. . . . .	5	55 449	idem, after Koppe . . . . .	3
55 384	Rock Salt Lens . . . . .	—			
55 387	Thermopile . . . . .	12			
55 388	idem . . . . .	13			
55 389	idem . . . . .	2			
55 390	idem . . . . .	3			
55 391	idem . . . . .	3			
55 392	idem . . . . .	—			
55 393	idem . . . . .	4			
55 395	Linear Thermopile after Rubens .	12			
55 396	Tinfoil Screen . . . . .	2			
55 397	Steam Capsule after Weinhold . .	7			

No.	Object	Piece	No.	Object	Piece
55 450	Hygrométer after Mithof . . . . .	6	55 479	Anemometer after Robinson. . . . .	1
55 451	idem, on base. . . . .	2	55 482	Anemometer after Beckley . . . . .	2
55 453	Polymeter after Lambrecht . . . . .	10	55 484	Apparatus for producing Smoke Eddies . . . . .	2
55 454	idem . . . . .	3	55 485	Eddy Apparatus after Colladon . . . . .	1
55 456	Compression Hygrometer . . . . .	1	55 486	Storm Recorder . . . . .	3
55 458	Psychrometer after August . . . . .	2	55 487	6 Meteorological Charts . . . . .	10
55 459	idem . . . . .	1			
55 460	Psychrometer, simple . . . . .	2			
55 461	Psychrometer . . . . .	3			
55 462	Centrifugal Psychrometer . . . . .	5			
55 465	Direct Reading Psychrometer . . . . .	—	55 488	Terrestrial Globe . . . . .	—
55 467	Air Tester after Wolpert . . . . .	4	55 491	Apparatus for Demonstrating Equinoctial Precession . . . . .	2
55 468	Rain Gauge . . . . .	3	55 492	Horizon after Buth. . . . .	2
55 469	idem . . . . .	3	55 497	Uranotrope after Dr. Wislicenus . . . . .	5
55 470	idem, after Bruhns . . . . .	3	55 500	Mang's collapsible Armillary Sphere . . . . .	2
55 471	idem . . . . .	1	55 503	Rotary Star Chart . . . . .	1
55 472	idem, larger . . . . .	3	55 504	Universal Clock . . . . .	2
55 473	Rain Gauge after Prof. Hellmann . . . . .	1			
55 475	Recording Rain Gauge . . . . .	2			

**Cosmology.**

**Magnetism.**

60 001	Lodestone . . . . .	7	60 019	Horse Shoe Magnet. . . . .	11
60 002	idem . . . . .	5	60 020	idem . . . . .	20
60 003	idem . . . . .	9	60 021	idem . . . . .	20
60 004	idem . . . . .	6	60 022	idem . . . . .	8
			60 023	idem, with 3 segments . . . . .	3
			60 024	idem . . . . .	3
			60 025	idem . . . . .	4
			60 026	idem, with 5 segments . . . . .	3
			60 027	idem . . . . .	3
			60 028	idem . . . . .	4
			60 029	idem, with 7 segments . . . . .	2
			60 030	idem . . . . .	5
			60 031	idem . . . . .	1
			60 032	Laminated Magnet (Jamin's) . . . . .	5
			60 033	idem . . . . .	—
			60 034	idem . . . . .	2
			60 036	Coulomb's Magnetic Magazine . . . . .	2
			60 037	idem . . . . .	2
			60 039	12 Steel Rings . . . . .	5
			60 040	1 Piece Thin Sheet Steel . . . . .	7
			60 041	Magnetic Needle . . . . .	46
			60 042	idem . . . . .	136
			60 043	idem . . . . .	71
			60 044	idem . . . . .	69
			60 045	idem . . . . .	198
			60 046	idem . . . . .	40



60 005. 1:6.

60 005	2 Bar Magnets and 2 Horse Shoe Magnets . . . . .	1
60 006	Bar Magnets . . . . .	2
60 007	idem . . . . .	12
60 008	idem . . . . .	3
60 009	idem . . . . .	8
60 010	idem . . . . .	6
60 011	idem . . . . .	3
60 012	idem . . . . .	6
60 013	idem . . . . .	14
60 014	idem . . . . .	5
50 015	2 Bar Magnets . . . . .	10
60 016	idem . . . . .	4
60 017	idem . . . . .	2
60 018	idem . . . . .	1

Max Kohl A. G. in Chemnitz.

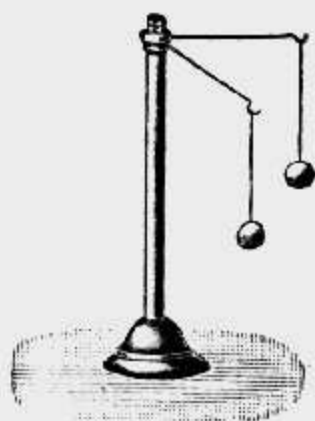
Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
60 047	Magnet Needle . . . . .	28	60 086	Apparatus for Explaining the Varying Magnitude of Inclination on the Earth . . . . .	10
60 048	idem . . . . .	37	60 087	Declination Needle . . . . .	1
60 049	idem, 200 mm length . . . . .	17	60 088	idem . . . . .	3
60 050	idem, 250 mm length . . . . .	4	60 089	idem . . . . .	—
60 051	Compass Needle . . . . .	14	60 090	Dipping Needle . . . . .	4
60 053	idem . . . . .	2	60 091	idem . . . . .	4
60 054	idem . . . . .	5	60 092	Inclination Apparatus with magnetizing spiral . . . . .	4
60 055	idem . . . . .	15	60 093	Inclinor, with electro-magnet	1
60 056	idem . . . . .	9	60 095	Declinator and Inclinor . . . . .	16
60 057	idem . . . . .	—	60 096	Dipping Circle . . . . .	3
60 058	Stand for Magnetic Needles . . . . .	53	60 097	Dip Circle . . . . .	1
60 059	Test Needle in glass cylinder . . . . .	5	60 098	idem . . . . .	2
60 060	Astatic Magnetic Needle . . . . .	8	60 100	idem . . . . .	12
60 061	idem . . . . .	1	60 101	idem . . . . .	11
60 062	idem, after Tremery, with stand	8	60 102	idem . . . . .	2
60 063	Apparatus for explaining the Fundamental Laws of Magnetism . . . . .	—	60 103	idem . . . . .	1
60 064	Apparatus for Magnetic Experiments . . . . .	1	60 107	Compass . . . . .	2
60 065	Collection of apparatus for the fundamental experiments in magnetism, etc. . . . .	4	60 109	idem . . . . .	2
60 066	Cylindrical Nickel Piece . . . . .	4	60 110	idem . . . . .	—
60 067	Magnetic Double Pendulum . . . . .	5	60 111	idem . . . . .	4
60 068	Iron and Steel Bars . . . . .	13	60 114	idem . . . . .	—
60 069	12 Round Soft Iron Bars . . . . .	5	60 117	Magnetic Needle with compass card . . . . .	2
60 070	12 Tempered Steel Wires . . . . .	13	60 119	Ship's Compass . . . . .	1
60 071	Molecular Magnet Model . . . . .	8	60 120	idem . . . . .	1
60 072	idem . . . . .	6	60 122	Compass . . . . .	4
60 073	idem . . . . .	4	60 123	W. Weber's Compass . . . . .	2
60 074	idem . . . . .	3	60 124	idem . . . . .	—
60 075	Apparatus for determining the distribution of Magnetism in a bar magnet . . . . .	3	60 125	idem, simple . . . . .	4
60 076	One Set Cardboard Sheets with magnetized sheet steel strips	2	60 128	Slider, Stage and Aluminium Bush . . . . .	3
60 077	Cardboard Sheet with magnetic bars . . . . .	3	60 129	Weber's Magnetometer . . . . .	1
60 078	Horse Shoe Magnet . . . . .	3	60 130	Coulomb's Torsion Balance . . . . .	4
60 079	2 Small Magnets, etc. . . . .	3	60 131	Apparatus after Fischer-Meutzner . . . . .	2
60 080	Glass Tube, half filled with iron filings . . . . .	—	60 134	Kleiber's Magnetic Balance . . . . .	3
60 083	Sifter . . . . .	16	60 135	Grimsehl's Pole Balance . . . . .	5
60 084	Soft Iron Rod . . . . .	2	60 136	idem . . . . .	2
60 085	Apparatus for explaining declination and inclination . . . . .	4	60 137	Magnetic Pendulum . . . . .	1
			60 139	Apparatus for determining the horizontal component of terrestrial magnetism . . . . .	1
			60 140	Thermo-magnetic Apparatus . . . . .	5

No.	Object	Piece	No.	Object	Piece
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**Static Electricity.**

60 141	2 Rods . . . . .	10
60 142	4 Rods . . . . .	3
60 143	Collection of Apparatus for the Fundamental Experiments on Magnetism, etc. . . . .	2
60 144	Flint Glass Rod . . . . .	9
60 145	idem . . . . .	10
60 146	Ebonite Rod . . . . .	4
60 147	idem . . . . .	14
60 148	Flint Glass Tube . . . . .	7
60 151	2 Ebonite Rods . . . . .	5
60 152	Brass Rod, with ebonite handle . . . . .	8
60 153	Steatite Piece with ebonite handle . . . . .	6
60 154	idem . . . . .	1
60 155	2 Double Hooks . . . . .	19
60 156	Paper Tube Drying Device . . . . .	7
60 157	5 Rods . . . . .	11
60 158	Electric Horizontal Pendulum . . . . .	7
60 159	Simple Electric Pendulum . . . . .	5
60 160	Double Electric Pendulum . . . . .	4
60 161	idem, after Kolbe . . . . .	12



60 161. 1:10.

60 162	Apparatus for the Fundamental Electrical Experiments . . . . .	24
60 163	Glass Tube . . . . .	5
60 164	Ebonite Rod . . . . .	7
60 165	Insulating Stand . . . . .	5
60 166	Horizontal Pendulum with two balls . . . . .	8
60 167	Insulating Stand . . . . .	1
60 168	idem . . . . .	8
60 169	Simple Paper Electroscope . . . . .	5
60 170	idem, double . . . . .	2
60 171	Parchment Strips . . . . .	—
60 172	Foot or Stand Clamp . . . . .	84
60 173	Mascart's Insulating Stand . . . . .	3

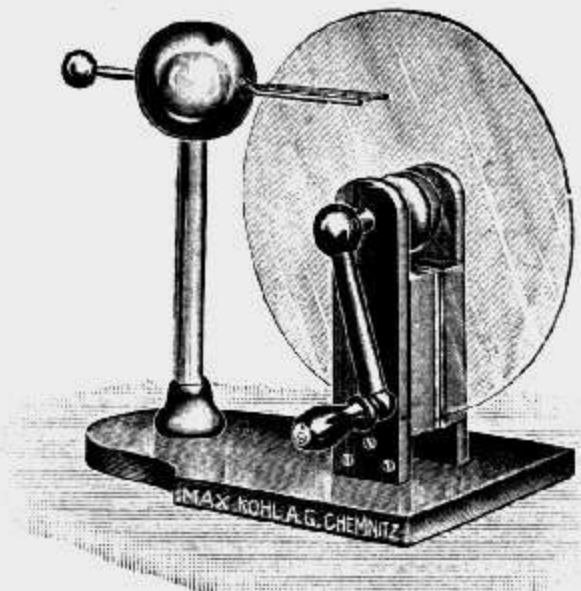
60 174	Apparatus for Demonstrating the Neutralisation of Opposite Kinds of Electricity . . . . .	2
60 175	Paper Electroscope, after Kolbe . . . . .	5
60 176	Aluminium Leaf Electroscope . . . . .	1
60 177	idem . . . . .	5
60 178	idem . . . . .	4
60 179	idem . . . . .	2
60 180	Electroscope for placing on the air pump . . . . .	2
60 181	Chatlock's Electroscope . . . . .	1
60 182	Aluminium Leaf Electroscope . . . . .	6
60 183	idem, after Kolbe . . . . .	3
60 185	Condensor alone . . . . .	10
60 186	v. Beetz's Electroscope . . . . .	9
60 188	2 Cylindrical Wire Baskets . . . . .	2
60 189	Fork Electroscope . . . . .	1
60 190	Szymansky's Electrometer . . . . .	3
60 191	Portable Electrometer . . . . .	6
60 191a	Flame Collector for above . . . . .	—
60 192	Portable Electrometer . . . . .	—
60 193	Tangent Electrometer . . . . .	1
60 194	2 Glass Rods with glass balls . . . . .	1
60 195a	Electrometer after Kohlrausch . . . . .	—
60 196	Aluminium Electrometer after Kolbe . . . . .	—
60 197	Projection Grade Scale . . . . .	2
60 198	2 Sheet Metal Pieces . . . . .	10
60 199	Hollow Ball . . . . .	—
60 200	Testing Electroscope after Kolbe . . . . .	3
60 200a	Auxiliary Electroscope . . . . .	10
60 200b	Testing Electroscope . . . . .	7
60 201	Insulated Wire Fork . . . . .	4
60 202	Grimsehl's Aluminium Leaf Elec- trometer . . . . .	8
60 203	2 Brass Condensor Plates . . . . .	4
60 204	1 Copper Condensor Plate, etc. . . . .	9
60 205	Additional Accessories for Grim- sehl's Electrometer . . . . .	2
60 206	Graphite Conductor . . . . .	3
60 207	idem, with graduation . . . . .	1
60 208	Liquid Resistance . . . . .	1
60 209	idem . . . . .	2
60 211	Absolute Lecture Electrometer after Prof. F. Braun . . . . .	—
60 212	idem . . . . .	8

Max Kohl A. G. in Chemnitz.

Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
60 213	Absolute Lecture Electrometer after Prof. F. Braun . . . . .	1	60 267	Adjustable Sounder . . . . .	6
60 214	idem . . . . .	1	60 268	2 Pairs Conducting Wires . . . . .	6
60 215	idem . . . . .	1	60 269	Connecting Wire . . . . .	7
60 217	Metal Beaker . . . . .	3	60 270	Bridge . . . . .	6
60 218	Kleiber's Electric Balance . . . . .	5	60 271	Test Disc . . . . .	4
60 221	Pendulum Electrometer . . . . .	4	60 272	1 Test Ball . . . . .	19
60 222	Odstreil's Apparatus . . . . .	3	60 273	1 Large Leyden Jar . . . . .	3
60 224	Conductor Ball . . . . .	—	60 274	2 Heavy Iron Stands, etc. . . . .	5
60 225	Electric Pendulum . . . . .	3	60 275	Porcelain Rod and Ebonite Rod . . . . .	8
60 226	2 Conductor Balls . . . . .	4	60 276	2 Condenser Plates . . . . .	4
60 229	2 Conductors . . . . .	2	60 277	1 Square Glass Slab . . . . .	5
60 230	Distributing Apparatus after Riess . . . . .	5	60 278	6 Ebonite Discs . . . . .	3
60 231	idem, after Wesselhöft . . . . .	1	60 279	Apparatus for Measuring the Potential Drop in the Neighbourhood of a Conductor . . . . .	8
60 232	idem, after Krebs . . . . .	3	60 286	Spherical Condenser, for external earthing . . . . .	1
60 233	Apparatus for Generating Electricity by Influence . . . . .	8	60 287	idem, for internal earthing . . . . .	2
60 234	Hemispherical-Ended Cylinder . . . . .	6	60 289	Double Spherical Condenser . . . . .	3
60 235	Large Egg-Shaped Conductor . . . . .	1	<b>Electrostatic Apparatus as suggested by Bruno Kolbe.</b>		
60 236	Weinhold's Apparatus . . . . .	1	60 297	2 Paper Electroscopes . . . . .	13
60 237	Sheet Iron Hollow Sphere . . . . .	3	60 298	Electric Pendulum . . . . .	5
60 238	Electric Blind . . . . .	3	60 299	Electric Needle . . . . .	3
60 239	Conductor with sharp point . . . . .	3	60 300	Flexible Wire Netting . . . . .	12
60 240	Mach's Apparatus . . . . .	7	60 301	Soap Bubble Apparatus . . . . .	4
60 241	idem . . . . .	2	60 306	Brass Rod with Balls . . . . .	6
60 242	Faraday's Beaker . . . . .	3	60 307	Conical Conductor . . . . .	6
60 243	Hollow Cylinder of Metal . . . . .	3	60 309	Wire Net Cylinder . . . . .	5
60 244	Brass Ball on Insulating Stand . . . . .	9	60 311	4 Nickelled Hollow Balls . . . . .	5
60 245	Pfaundler's Apparatus . . . . .	2	60 313	Glass Plate . . . . .	4
60 247	Lead Cap . . . . .	3	60 314	Ebonite Plate . . . . .	1
60 248	Faraday's Muslin Net . . . . .	3	60 315	White Metal Sheet Plate . . . . .	4
60 249	Leyden Jar with large Hollow Ball . . . . .	9	60 316	Wire Net Cylinder and Sheet Iron Plate . . . . .	5
60 250	Apparatus for the same experiment . . . . .	4	60 317	Candle Holder . . . . .	4
60 251	Wire Cage . . . . .	1	60 319	1 Pair Air Condenser Plates . . . . .	6
60 252	Wire Spiral . . . . .	3	60 324	Standard Condenser . . . . .	2
60 253	Lippmann's Apparatus . . . . .	2	60 325	Capacity Meter . . . . .	14
60 255	Zamboni Pile . . . . .	—	60 326	Air Condenser, on Stand . . . . .	2
60 256	idem . . . . .	2	60 327	Paraffin Plate . . . . .	3
60 257	Bohnenberger's Electrometer . . . . .	5	60 328	Ebonite Plate . . . . .	4
60 258	Water Battery . . . . .	4	60 333	Small Amalgamated Zinc Plate . . . . .	20
60 261	Sheet Iron Cube . . . . .	3	60 334	2 Induction Spirals . . . . .	3
60 262	2 Sheet Brass Hollow Cylinder . . . . .	2	60 335	Candle Holder . . . . .	2
60 263	Sheet Brass Hollow Cylinder . . . . .	13			
60 264	Insulating Table of ebonite . . . . .	6			
60 265	Paraffin Plate . . . . .	7			
60 266	2 Fixed Sounders . . . . .	7			

No.	Object	Piece	No.	Object	Piece
60 336	Paraffin Block . . . . .	5	60 380	Electric Machine, simple construction. . . . .	5
60 337	Apparatus for Electric Lines of Force . . . . .	8	60 381	Small Electric Machine . . . . .	4
60 338	Electrometer for Atmospheric Electricity . . . . .	1	60 383	Kienmayer's Amalgam . . . . .	8
60 340	Communicating Water Vessels . . . . .	2	60 384	Water Influence Machine . . . . .	1
60 341	Small Lead Plate on ebonite rod . . . . .	6	60 385	Sand Influence Machine . . . . .	2
65 345	Amber . . . . .	6	60 388	Model of a Dubrowski Influence Machine . . . . .	2
60 346	Glass Rod . . . . .	9	60 389	Self-Exciting Influence Machine . . . . .	2



60 380. 1 : 8.

**Electrophorus, Frictional Electric Machines, Influence Machines and Auxiliary Apparatus.**

60 357	Electrophorus . . . . .	11
60 358	idem . . . . .	—
60 359	idem . . . . .	2
60 360	idem . . . . .	4
60 361	Electrophorus of Palmieri insulating material . . . . .	1
60 362	Electrophorus of ebonite . . . . .	5
60 363	Tyndall's Electrophorus . . . . .	2
60 365	Disc Electric Machine . . . . .	—
60 366	idem . . . . .	1
60 367	idem . . . . .	2
60 368	idem . . . . .	—
60 370	idem . . . . .	—
60 371	idem . . . . .	1
60 375	Winter's Ring . . . . .	5
60 376	idem . . . . .	3
60 377	idem . . . . .	3
60 378	idem . . . . .	3

60 390	idem . . . . .	3
60 391	idem . . . . .	1
60 392	idem . . . . .	—
60 393	idem, with 1 fixed and 2 rotating plates . . . . .	1
60 394	idem . . . . .	1
60 397	idem . . . . .	2
60 398	idem . . . . .	2
60 399	idem . . . . .	2
60 401	idem . . . . .	1
60 402	idem . . . . .	1
60 407	idem . . . . .	2
60 410	idem, with 2 fixed and 2 rotating plates . . . . .	1
60 426	idem, with 2 rotating and 1 fixed plate . . . . .	2
60 431	idem, with double rotation, with 2 glass plates. . . . .	1
60 432	idem . . . . .	—
60 433	idem . . . . .	11
60 434	idem, with double rotation, with two ebonite plates . . . . .	4
60 435	idem . . . . .	4
60 436	idem . . . . .	12
60 438	idem . . . . .	1
60 439	idem . . . . .	1
60 441	idem, with double rotation and 2 glass plates . . . . .	1
60 444	idem . . . . .	1
60 448	idem . . . . .	1
60 449	idem . . . . .	—
60 463	Rubber Slab . . . . .	2
60 464	Metal Coating. . . . .	2
60 471	Self-Exciting Influence Machine . . . . .	1
60 473	High-Capacity Influence Machine . . . . .	—
60 476	idem . . . . .	1
60 487	Fixed Glass Plate . . . . .	—
60 488	idem . . . . .	—
60 491	idem . . . . .	—

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No.	Object	Piece	No.	Object	Piece
60 503	Glass Plate. . . . .	—	60 567	Apparatus for showing the difference between the two kinds of electricity . . . . .	4
60 513	Motor Driving Stand for Influence Machines. . . . .	1	60 568	Electric Thermometer . . . . .	4
60 521	Connecting Chain . . . . .	1	60 569	Electric Air Thermometer. . . . .	4
60 522	Elastics, lined with Copper Wire	6	60 570	idem . . . . .	1
60 527	Collection of Auxiliary Apparatus for the Influence Machine. . . . .	14	60 571	Apparatus for showing the magnetic effect of the Discharge Shock . . . . .	4
60 528	Chime . . . . .	19	60 573	Apparatus for showing the inductive effect of an Discharge Shock . . . . .	3
60 529	idem, with Leyden Jar . . . . .	6	60 576	Apparatus for demonstrating Lines of Force . . . . .	3
60 530	Apparatus for Igniting Gases . . . . .	14	60 577	Electric Egg . . . . .	21
60 531	Electric Pistol . . . . .	7	60 577a	idem . . . . .	—
60 532	Electric Whirl . . . . .	6	60 577b	idem . . . . .	1
60 534	Double Electric Whirl . . . . .	6	60 578	Geissler Tube. . . . .	17
60 535	Paper Tassel . . . . .	3	60 579	Leyden Jars . . . . .	10
60 536	Electric Dancing Balls . . . . .	12	60 580	idem . . . . .	1
60 537	Electric Mortar . . . . .	7	60 581	Leyden Jar . . . . .	9
60 538	Apparatus for Ignating Ether . . . . .	6	60 582	Leyden Jars . . . . .	9
60 539	idem . . . . .	2	60 583	idem, with removable coating . . . . .	19
60 540	idem . . . . .	5	60 584	idem, cylindrical form . . . . .	5
60 542	Apparatus for explaining Potential Difference and Potential Drop . . . . .	5	60 585	Leyden Jar Battery . . . . .	1
60 543	Press with Portrait Pattern . . . . .	2	60 586	idem . . . . .	3
60 544	Electrostatic Motor . . . . .	5	60 588	idem . . . . .	1
60 545	Electrostatic Rotary Field Motor	5	60 589	idem . . . . .	—
60 545a	idem . . . . .	3	60 605	Lane's Measuring Jar . . . . .	4
60 546	idem, with electric needle. . . . .	4	60 606	idem . . . . .	9
60 547	Electrostatic Double Roller . . . . .	1	60 607	idem . . . . .	1
60 549	Apparatus for Demonstrating the Electric Action of Points . . . . .	4	60 608	Condenser after Weinhold. . . . .	4
60 550	Smoke Condenser . . . . .	11	60 60 )	idem . . . . .	5
60 552	Fulminating Tube . . . . .	4	60 611	Condenser after Kohlrausch . . . . .	—
60 553	idem . . . . .	4	60 612	idem . . . . .	1
60 554	Fulminating Flask. . . . .	10	60 613	idem . . . . .	4
60 555	Fulminating Slab . . . . .	5	60 620	Spark Micrometer . . . . .	3
60 556	idem . . . . .	1	60 621	Discharger . . . . .	6
60 557	Electric Tourbillion . . . . .	3	60 622	idem . . . . .	5
60 558	Cup and Ball . . . . .	2	60 623	idem . . . . .	7
60 559	Henley's Quadrant Electrometer	2	60 624	idem, after Riess . . . . .	4
60 560	Apparatus for Proving that the same Kinds of Electricity repel each other . . . . .	4	60 625	Henley's Discharger . . . . .	1
60 561	Apparatus for piercing Thin Glass	8	60 626	idem . . . . .	6
60 562	idem . . . . .	8	60 627	Franklin's Plate. . . . .	3
60 563	idem . . . . .	3	60 628	Franklin's Fulminating Plate . . . . .	2
60 564	Apparatus for splintering Glass Vessels . . . . .	10	60 629	Rosetti's Fulminating Plate . . . . .	3
60 566	Insulating Stand . . . . .	3	60 630	Glass Slab . . . . .	4

No.	Object	Piece	No.	Object	Piece
60 631	Glass Slab . . . . .	2	60 645	Apparatus for approximately determining Dielectric Constants . . . . .	3
60 632	Tower with Lightning Conductor	—	60 646	2 Lodge Leyden Jars, 16 cm high	12
60 633	Apparatus for Explaining the Action of the Lightning Conductor . . . . .	1	60 647	idem, 26 cm high . . . . .	1
60 634	House with Tower and Lightning Conductor . . . . .	4	60 648	Noack's Indicator . . . . .	1
60 635	Aluminium Leaf Electroscope . . . . .	4	60 649	Apparatus after Puccianti . . . . .	5
60 640	Hydraulic Analogon . . . . .	2	60 651	Hany's Apparatus for investigating the electricity . . . . .	1
60 642	Lens Disc, after Boys . . . . .	2	60 652	Kundt's Pyro-Electric Apparatus	2

**Voltaic Electricity.**

**Accessories for the Voltaic Fundamental Experiments as suggested by Noack.**

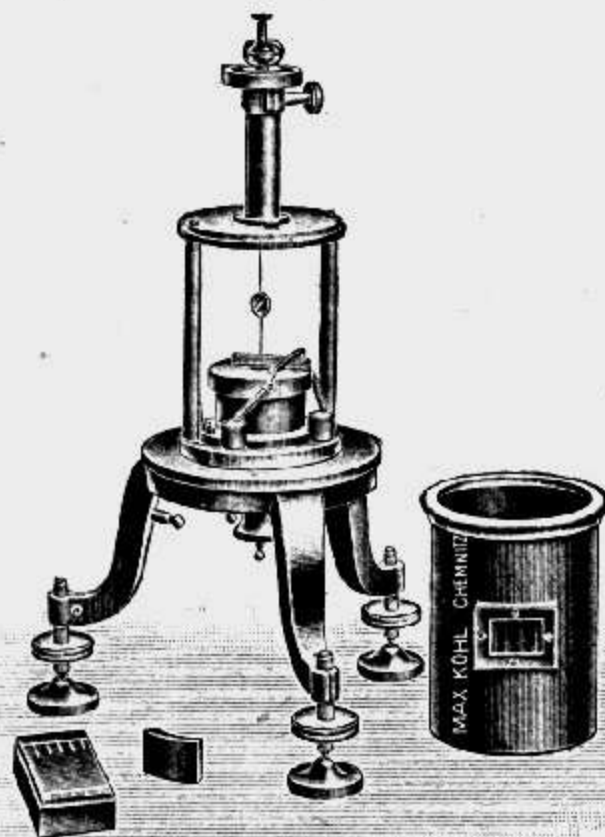
60 680	Bow-shaped Joint of Copper and Zinc . . . . .	5
60 681	2 Zinc Plates, etc. . . . .	3
60 682	3 Copper and 3 Zinc Plates . . . . .	3
60 684	Volta's Pair of Plates . . . . .	5
60 685	Volta's Pile . . . . .	2
60 686	idem . . . . .	2
60 687	idem . . . . .	1
60 688	idem . . . . .	2
60 689	Zambonic Pile . . . . .	2
60 690	idem . . . . .	3
60 691	idem . . . . .	4
60 698	idem . . . . .	—
60 702	Pile Electrometer after Bennet	4
60 703	idem . . . . .	4
60 704	idem . . . . .	3
60 707	Water Battery after Rowland . . . . .	—
60 708	Electrometer with Quartz Fibres	1
60 709	Discharge Electrometer . . . . .	1

**Quadrant Electrometers.**

60 710	Quadrant Electrometer . . . . .	5
60 711	idem . . . . .	2
60 712	Replenisher . . . . .	3
60 713	Wall Bracket and Wall Arm . . . . .	5
60 715	Scale for Objective Reading . . . . .	4
60 718	Electric Incandescent Lamp, on stand . . . . .	4
60 719	Demonstration Quadrant Electrometer . . . . .	9
60 720	Quadrant Electrometer . . . . .	6
60 721	idem . . . . .	4

**Standard Cells, Galvanic Demonstration-Cells, Galvanic Cells for Ordinary Use.**

60 727	Standard Copper-Zinc Cell . . . . .	3
60 728	Standard Cell after Kittler . . . . .	—



60 721. 1: 6.

60 729	Standard Cell after Fleeming . . . . .	6
60 730	idem, after Clark . . . . .	4
60 731	Standard Cell . . . . .	1
60 732	idem, Original Weston Standard Cell . . . . .	1
60 737	Zinc-Copper Cell . . . . .	5
60 737a	Demonstration Cell . . . . .	4
60 738	Small Voltaic Cell . . . . .	9
60 739	Small Projection Cell after Kolbe	8
60 740	Small Constant Cell . . . . .	6

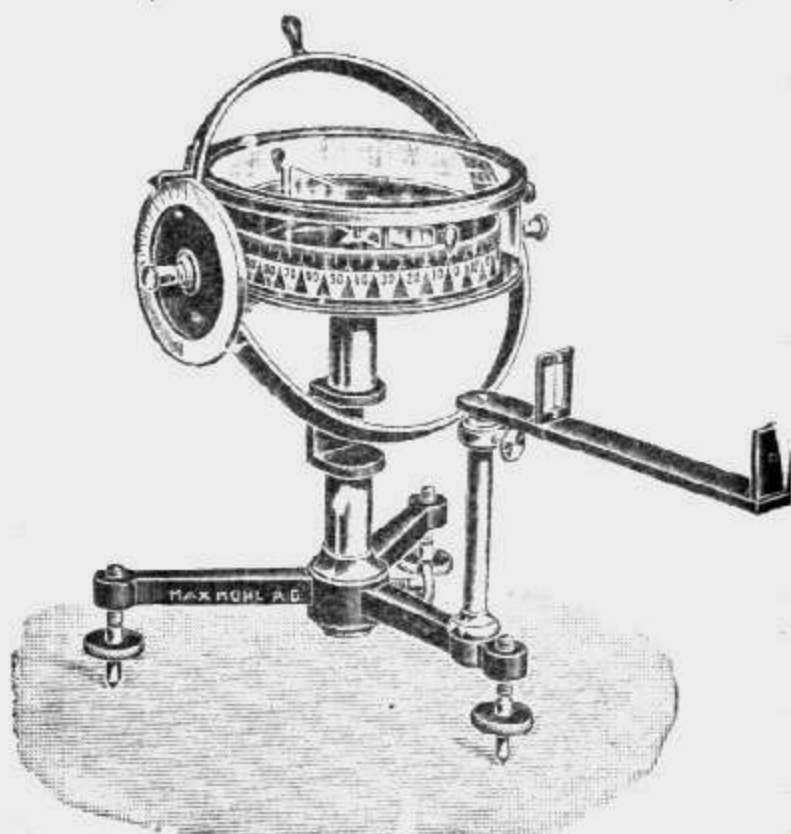
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No.	Object	Piece	No.	Object	Piece
61 116	Pressure Terminal . . . . .	19	<b>Galvanometers and Accessories.</b>		
61 117	Double Pressure Terminal . . . . .	19			
61 118	Triple Pressure Terminal . . . . .	26			
61 119	Ebonite Rod . . . . .	6			
61 120	Single-pole Interrupter . . . . .	11			
61 121	idem . . . . .	2			
61 122	Quick-Break Lever Switches. . . . .	5			
61 123	idem . . . . .	1			
61 126	idem . . . . .	3			
61 130	idem . . . . .	3			
61 134	Commutator . . . . .	1			
61 135	idem . . . . .	17			
61 137	idem . . . . .	2			
61 138	Mercury Switch . . . . .	3			
61 141	Press Contact on wood board . . . . .	2			
61 142	Key with Mercury Contact . . . . .	1			
61 143	Key. . . . .	1			
61 144	Double Key . . . . .	2			
61 145	idem . . . . .	1			
61 147	Morse Key . . . . .	22			
61 149	Multiple Commutator. . . . .	4			
61 157	idem . . . . .	—			
61 158	Sliding Resistances . . . . .	1			
61 161	idem . . . . .	1			
61 172	idem . . . . .	1			
61 175	idem . . . . .	1			
61 200	idem . . . . .	1			
61 236	Double Sliding Resistance. . . . .	1			
61 246	Universal Sliding Resistance . . . . .	1			
61 266	Tangent Galvanometer . . . . .	14			
61 267	idem . . . . .	4			
61 268	idem . . . . .	6			
61 269	idem, with vertical and horizontal scale . . . . .	1			
61 270	Tangent Galvanometer . . . . .	—			
61 271	idem . . . . .	3			
61 272	idem . . . . .	11			
61 273	idem . . . . .	1			
61 276	Shunt . . . . .	4			
61 277	Sine and Tangent Galvanometer . . . . .	5			
61 278	Tangent Galvanometer . . . . .	2			
61 280	Vertical Galvanometer . . . . .	9			
61 281	idem . . . . .	14			
61 282	idem . . . . .	9			
61 283	idem . . . . .	6			
61 284	Directing Magnet . . . . .	6			
61 285	Simple Vertical Galvanometer . . . . .	4			
61 287	Demonstration Galvanometer. . . . .	3			
61 288	Vertical Galvanometer . . . . .	4			
61 291	Vertical Galvanoscope . . . . .	—			
61 293	idem . . . . .	5			
61 294	Model of a Multiplier. . . . .	3			
61 295	Simple Horizontal Galvanoscope . . . . .	1			
61 299	School Galvanometer . . . . .	10			
61 300	Tangent Galvanometer Ring. . . . .	1			
61 303	Reflecting Galvanometer . . . . .	2			
61 305	idem . . . . .	1			
61 306	idem . . . . .	3			
61 310	Paraffin Lamp . . . . .	6			
61 311	Incandescent Gas Burner . . . . .	4			
61 317	Terminal Board. . . . .	1			
61 320	Shunt for Reflecting Galvanometers. . . . .	5			
61 321	idem, smaller . . . . .	3			
61 322	School Galvanometer . . . . .	13			
61 323	idem . . . . .	—			
61 325	Lecture Galvanometer after v. Beetz . . . . .	—			
61 326	idem . . . . .	1			
61 327	idem . . . . .	2			
61 329	School Galvanometer after Noack . . . . .	3			
61 336	Astatic 4-Coil Mirror Galvanometer . . . . .	1			

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No.	Object	Piece	No.	Object	Piece
61 342	Mirror Galvanometer. . . . .	1	61 485	Lamp Reading Apparatus . . . . .	1
61 343	Wall Bracket . . . . .	4	61 487	Stand for above. . . . .	1
61 344	Extra Price for a Nernst Lamp	—	61 488	Lamp Reading Apparatus. . . . .	1
61 346	Multiple Commutator. . . . .	4			
61 360	Portable Moving Coil Needle Galvanometer . . . . .	3		<b>Demonstration and Graphic Reproduction of Current Curves.</b>	
61 361	idem . . . . .	1	61 489	Glow Light Oscillograph Tube	2
61 382	Induction Coil . . . . .	2	61 490	Rotating Mirror Box. . . . .	—
61 383	Telephone . . . . .	—	61 501	Cathode Ray Tube. . . . .	2
61 384	Projection Moving Coil Galvanometer . . . . .	3	61 502	Two Coils on Stand . . . . .	2
61 385	Model of a Moving Coil Galvanometer . . . . .	—	61 503	Magnetizing Ring for Two-phase current . . . . .	2
61 386	idem . . . . .	2	61 503a	Magnetizing Ring for 3-phase current . . . . .	3
61 388	Galvanometer after Deprez-d'Arsonval . . . . .	2	61 503b	Stand for above. . . . .	2
61 389	idem . . . . .	1	61 504	Glow Lamp Resistance. . . . .	3
61 390	idem . . . . .	3	61 505	Demonstration Double Oscillograph . . . . .	8
61 391	Moving Coil Mirror Galvanometer	4	61 507	Diaphragm with two holes . . . . .	4
61 392	Reflecting Moving Coil Galvanometer . . . . .	5	61 508	Screen with clamp. . . . .	1
61 393	idem, with Nernst Lamp . . . . .	1	61 509	Large Lens on Stand . . . . .	3
61 394	Universal Shunt. . . . .	5	61 510	Switch Apparatus for producing Phase Displacements . . . . .	1
61 395	Connecting Switchboard . . . . .	1	61 511	Condenser . . . . .	2
61 396	Simple Moving Coil Mirror Galvanometer . . . . .	2	61 512	Photograph on glass. . . . .	1
61 397	idem, with Reading Telescope	—	61 513	Oscillograph after Wittmann . . . . .	1
61 398	Moving Coil Mirror Galvanometer	5			
61 399	Interchangeable Coil . . . . .	2		<b>Ammeters and Voltmeters.</b>	
61 403	Moving Coil Mirror Galvanometer	—	61 520	Direct Current Demonstrating Ammeter. . . . .	7
61 404	Mirror Galvanometer. . . . .	1	61 521	Direct Current Demonstration Voltmeter . . . . .	14
61 406	Laboratory Galvanometer after Ayrton . . . . .	8	61 522	Glass Case with brass mount . . . . .	6
61 407	Moving Coil Mirror Galvanometer	1	61 526	Additional Voltage Coil . . . . .	2
61 432	Small Electro-Magnet String Galvanometer . . . . .	1	61 528	Universal Demonstration Moving Coil Galvanometer. . . . .	7
61 444	Simple Reading Telescope . . . . .	4	61 529	idem . . . . .	1
61 447	Reading Telescope. . . . .	3	61 530	Demonstration Moving Coil Voltmeter . . . . .	6
61 448	idem . . . . .	—	61 531	Demonstration Moving Coil Ammeter . . . . .	3
61 449	idem . . . . .	1	61 562	Demonstration Instrument. . . . .	2
61 454	idem . . . . .	1	61 563	Demonstration Hot Wire Ammeter . . . . .	—
61 460	Wood Scale . . . . .	—			
61 462	idem, with T-shaped cross section graduated in Millimeters. . . . .	1			
61 478	Reading Telescope. . . . .	1			
61 480a	Simple Lamp Reading Apparatus	1			
61 481	Lamp Reading Apparatus. . . . .	4			
61 483	idem, on wood stand. . . . .	2			

No.	Object	Piece	No.	Object	Piece
61 565	Dead Beat Demonstration Hot Wire Ammeter . . . . .	1	61 853	Single Resistances for forming sets . . . . .	11
61 567	Dead Beat Demonstration Hot Wire Voltmeter . . . . .	1	61 854	idem . . . . .	6
61 570	Electrostatic Demonstration Voltmeter . . . . .	1	61 855	idem . . . . .	—
61 580	Voltmeter . . . . .	—	91 856	idem . . . . .	6
61 581	Dead Beat Hot Wire Measuring Instrument for Direct and Alternating Current . . . . .	2	61 856a	idem . . . . .	7
61 585	Voltmeter . . . . .	4	61 857	idem . . . . .	12
61 590	Ammeter. . . . .	1	61 858	idem . . . . .	1
61 591	idem . . . . .	—	61 859	idem . . . . .	2
61 630	Voltmeter . . . . .	—	61 860	idem . . . . .	1
61 664	Ammeter. . . . .	1	61 861	idem . . . . .	3
61 718	Precision Milliammeter . . . . .	—	61 862	idem . . . . .	2
61 719	idem . . . . .	—	61 863	idem . . . . .	1
61 741	Ammeter. . . . .	1	61 864	idem . . . . .	2
			61 865	idem . . . . .	2
			61 868	idem . . . . .	1
			61 869	Single Resistance for forming set	2
			61 871	Conductor after Kolbe . . . . .	1
			61 872	Rheostat after Kolbe . . . . .	2
			61 873	School Rheostat after Kolbe. . . . .	—
			61 874	idem . . . . .	—
			61 877	Single Ohm. . . . .	4
			61 879	Switch Contact Rheostat for school use . . . . .	4
			61 881	Slide Wire Resistance alone. . . . .	5
			61 882	Switch Contact Rheostat . . . . .	18
			61 886	idem . . . . .	1
			61 889	Model for explaining the Galvanic Current and Ohm's Law	2
			61 890	Model for explaining the Phenomena in Electric Circuits . . . . .	2
			61 895	Apparatus for explaining the Wheatstone Bridge hydrodynamically . . . . .	3
			61 896	Apparatus for explaining the Wheatstone Bridge . . . . .	6
			61 898	Wheatstone Bridge. . . . .	1
			61 899	4 Comparison Resistances for above . . . . .	1
			61 900	3 Comparison Resistances. . . . .	4
			61 901	4 Simple Comparison Resistances	5
			61 903	Simple Wheatstone Bridge for school use. . . . .	1
			61 904	Double Key. . . . .	2
			61 905	Simple Wheatstone Bridge . . . . .	2
			61 906	Standard Resistances. . . . .	1
			61 907	idem . . . . .	2
			61 908	idem . . . . .	3

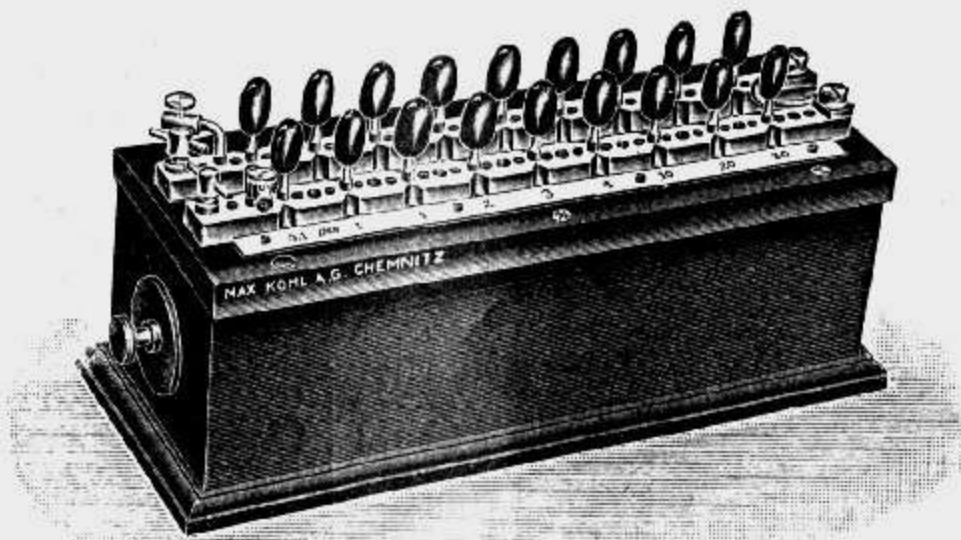
**Ohm's, Kirchhoff's and Joule's Laws.**

61 833	Apparatus for Fundamental Resistance Experiments. . . . .	5
61 834	idem . . . . .	6
61 835	5 Wires of Constantan, etc. . . . .	2
61 836	4 Wires of Copper, etc. . . . .	1
61 837	Rheostat after Wheatstone . . . . .	7
61 838	idem . . . . .	3
61 839	Rheochord after Poggendorff . . . . .	2
61 840	Rheochord . . . . .	4
61 841	4 Resistance Spirals . . . . .	6
61 845	Device for explaining that the conducting resistance of a metallic conductor depends upon the temperature . . . . .	1
61 846	Apparatus for showing the Influence of Temperature on Resistance . . . . .	5
61 847	Apparatus for the same purposes, after Grimsehl . . . . .	6
61 848	1 Ohm for School Use . . . . .	—
61 849	Siemens Unit. . . . .	2
61 850	Single Resistances for forming sets. . . . .	10
61 851	idem . . . . .	11
61 852	idem . . . . .	10

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No.	Object	Piece	No.	Object	Piece
61 909	Standard Resistances . . . . .	2	62 018	Wheatstone Bridge of Manganin	—
61 910	idem . . . . .	1	62 021	Wheatstone Bridge after Weinhold. . . . .	6
61 911	idem . . . . .	4	62 022	idem . . . . .	2
61 912	idem . . . . .	4	62 023	Universal Pattern Wheatstone Bridge. . . . .	2
61 914	idem . . . . .	3	62 024	Box Telephone for above . . . . .	1
61 915	idem . . . . .	—	62 025	Kohlrausch Bridge. . . . .	1
61 917	idem . . . . .	1	62 028	Wheatstone-Kirchhoff Bridge. . . . .	3
61 920	idem . . . . .	2	62 040	Induction Apparatus with current-interrupting tuning fork	3
61 921	idem . . . . .	4	62 041	Electrolytic Interrupter. . . . .	7
61 924	Shunt Resistances with interpolation . . . . .	2		<b>Resistance of Electrolytes.</b>	
61 928	Petroleum Bath . . . . .	1	62 042	Apparatus after Horsford . . . . .	5
61 933	Precision Series Rheostats . . . . .	—	62 043	Apparatus for Determining the Conducting Resistance of Liquids . . . . .	1
61 934	idem . . . . .	5	62 044	Plate Glass Box . . . . .	4
61 936	idem . . . . .	3			
61 939	idem . . . . .	5			
61 944	idem . . . . .	2			
61 946	idem . . . . .	6			
61 948	idem . . . . .	4			

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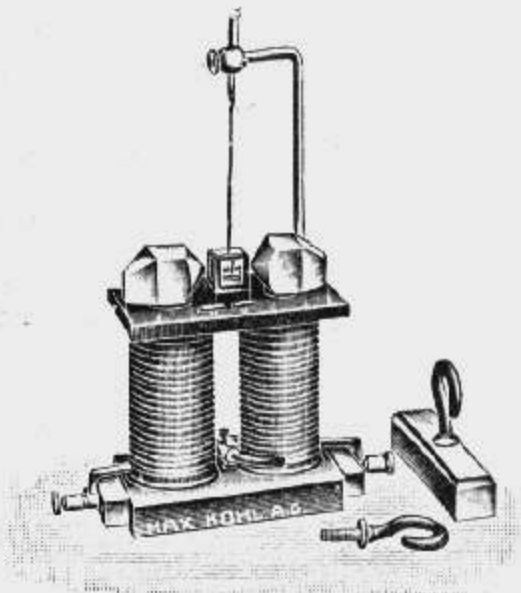
61 948. 1:8.

61 950	idem . . . . .	3	62 046	Apparatus for Electrolytic Conduction . . . . .	4
61 952	Precision Decade Resistances of manganin . . . . .	—	62 047	Apparatus for determining the Conductivity of Electrolytes. . . . .	—
62 000	School Rheostats of Manganin . . . . .	14	62 052	Measuring Wire. . . . .	3
62 001	idem . . . . .	—	62 053	Conductivity Vessel . . . . .	1
62 003	idem . . . . .	1	62 054	Holder for above . . . . .	1
62 004	idem . . . . .	—	62 056	Induction Apparatus . . . . .	—
62 005	idem . . . . .	1	62 057	Telephone Receiver . . . . .	1
62 006	idem . . . . .	1	62 060	Connecting Lead . . . . .	2
62 007	idem . . . . .	1	62 062	3 Resistance Vessels. . . . .	3
62 009	idem . . . . .	2	62 063	Resistance Vessel . . . . .	3
62 010	School Rheostat of Manganin . . . . .	1	62 064	idem . . . . .	5
62 011	idem . . . . .	1	62 065	idem . . . . .	2
62 012	Wheatstone Precision Bridge . . . . .	—	62 066	Resistance Vessel for Electrolytes and 2 Platinum Electrodes	3
62 014	idem . . . . .	2			
62 016	Large Precision Bridge. . . . .	—			

No.	Object	Piece	No.	Object	Piece
62 067	Apparatus for Demonstrating Phototelegraphy, after Korn.	1		<b>Electro-chemistry.</b>	
62 068	Two Protecting Cases . . . . .	1	62 180	Water Decomposing Apparatus	6
62 085	Precision Condenser . . . . .	1	62 181	idem . . . . .	13
62 103	String Induction Coil . . . . .	1	62 182	idem, after Weinhold. . . . .	2
62 104	2 Measuring Condensers . . . . .	2	62 183	Voltameter . . . . .	1
62 105	Testing Condenser. . . . .	2	62 184	idem . . . . .	5
62 106	Round Pattern Telephone . . . . .	2	62 185	Gas Measuring Jar . . . . .	—
62 107	Thermometer . . . . .	3	62 187	Endiometer and Glass Cup . . . . .	3
62 108	Connecting Flexibles . . . . .	2	62 188	Voltameter . . . . .	10
62 109	Condenser . . . . .	2	62 189	idem, after Bunsen . . . . .	—
62 113	2 Glow Lamps with Holders . . . . .	1	62 190	idem, after Zwick . . . . .	7
	<b>Heating Effects of the Electric Current, Joule's Law.</b>		62 191	Voltameter . . . . .	4
62 114	Apparatus for showing the Generation of Heat by the Electric Current . . . . .	3	62 193	idem, after Hofmann . . . . .	18
62 115	idem . . . . .	—	62 194	idem, after Hofmann . . . . .	—
62 116	Caloroscope. . . . .	20	62 195	idem . . . . .	3
62 117	Apparatus after Foster . . . . .	5	62 196	idem, after Hofmann-Kölbe . . . . .	1
62 119	Calorimeter for demonstrating Joule's Law. . . . .	—	62 197	Gas Voltameter after Kolbe . . . . .	2
62 120	idem . . . . .	3	62 198	Voltameter after Kohlrausch . . . . .	—
62 122	Apparatus for deriving Joule's Law . . . . .	2	62 200	Precision Gas Voltameter . . . . .	1
62 123	Glow Lamp for the numerical determination of the Electric Equivalent of Heat . . . . .	9	62 201	Water Decomposing Apparatus	3
62 125	U-shaped Tube . . . . .	3	62 202	Voltameter after Grimsehl . . . . .	1
62 126	Mercury Resistance Thermometer	2	62 203	Gas Voltameter after Grimsehl	3
62 127	Apparatus for Proving Joule's Law . . . . .	1	62 204	Gas Coulomb-meter . . . . .	2
62 131	Carbon Clamps after Dr. Brusch	5	62 205	Copper Voltameter. . . . .	8
62 132	Extra Carbon. . . . .	30	62 209	U-shaped Decomposing Cell . . . . .	2
62 133	Spare Carbon. . . . .	5	62 210	Electrolytic Apparatus . . . . .	3
62 134	Demonstration Electric Melting Furnace . . . . .	4	62 211	idem . . . . .	2
62 137	Melting Crucible . . . . .	6	62 212	U-shaped Glass Tube. . . . .	1
62 139	Protecting Screen . . . . .	1	62 214	Copper Voltameter. . . . .	—
62 140	Electric Assay Furnace . . . . .	3	62 215	Grooved Glass . . . . .	1
62 142	One Graphite Crucible . . . . .	2	62 216	Apparatus for Objectively Demonstrating Electrolytic Decompositions and Crystallizations	1
62 143	One Magnesite Crucible. . . . .	18	62 217	Saturn's Tree Inset . . . . .	6
			62 218	V-shaped Glass Tube. . . . .	6
			62 219	Electrolytic Apparatus . . . . .	2
			62 221	Demonstration Experiment for Faraday's second Law . . . . .	2
			62 222	U-shaped Decomposing Vessel	—
			62 223	W-shaped Decomposition Cell . . . . .	1
			62 225	Apparatus after Nernst. . . . .	2
			62 226	Apparatus after Wiedemann . . . . .	2
			62 227	Electrolytic Demonstration Apparatus, after Hillig . . . . .	2
			62 228	Electrolytic Demonstration Apparatus after Grimsehl . . . . .	—

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No.	Object	Piece	No.	Object	Piece
62 229	Apparatus after Hofmann . . .	1	62 268	Iron Bar on Stand, etc. . . . .	5
62 230	Apparatus for Electric Endosmose	2	62 269	Electromagnet . . . . .	1
62 231	idem, for projection . . . . .	1	62 270	idem . . . . .	1
62 232	Apparatus for Electric Endosmose	3	62 271	idem . . . . .	3
62 233	Apparatus after Wiedemann. .	2	62 272	idem . . . . .	3
62 235	Mechanical Model for demon- strating Electrolysis . . . . .	1	62 273	2 Coils with winding of different thickness . . . . .	1
62 236	Mechanical Model for demon- strating the velocity of migra- tion of the Jons. . . . .	2	62 274	Joule's Electromagnet . . . . .	2
62 237	Apparatus for demonstrating the migration of a drop of mercury	12			
62 238	Capillary Galvanoscope . . . . .	4			
62 240	Precision Capillary Electrometer	1			
62 243	2 Condensation Cells. . . . .	3			
62 244	Electrolytic Stand . . . . .	1			
62 248	Flat Electrode . . . . .	2			
62 249	Stand for Platinum Electrodes.	2			
62 250	Apparatus for demonstrating No- bili's Colour Rings . . . . .	2			
62 251	Electro-plating Apparatus . . .	7			
62 252	Copper-plating Apparatus . . .	7			
62 253	Matrices, of paraffin . . . . .	2			
62 254	idem, of gutta-percha . . . . .	99			
62 256	Electro-plating Apparatus . . .	7	62 275	Electromagnet . . . . .	2
62 257	idem, larger . . . . .	1	62 276	idem, carrying 50 kg . . . . .	2
62 258	Complete Apparatus for Silvering and Gilding. . . . .	6	62 277	idem, carrying 100 kg . . . . .	7
62 259	Complete Apparatus for Nickel- plating . . . . .	7	62 278	idem, arranged so as to rotate	3
62 260	idem, larger . . . . .	1	62 279	idem, carrying 150 kg . . . . .	—
			62 280	Electromagnet after Weinhold	8
			62 280a	v. Waltenhofen's Pendulum . .	5
			62 281	Electromagnet . . . . .	—
			62 282	Device for Experiments on Para- magnetism and Diamagnetism	2
			62 283	v. Waltenhofen's Pendulum . .	4
			62 284	Foucault's Rotating Copper Disc	3
			62 285	Silver Coin with Pyramid Mirror	1
			62 286	Device for Melting easily Lique- fying Metals . . . . .	3
			62 287	Polarisation Apparatus . . . . .	1
			62 294	Universal Slider. . . . .	1
			62 296	Flat Induction Coil . . . . .	3
			62 297	Polarisation Apparatus . . . . .	1
			62 307	Bismuth Spiral . . . . .	1
			62 314	Band Spiral for magnetizing .	1
			62 316	Apparatus after v. Waltenhofen	1
			62 317	Electromagnetic Motor after Rit- chie. . . . .	7



62 275. 1:10.

**Electro-magnetism  
and Electro-dynamics.**

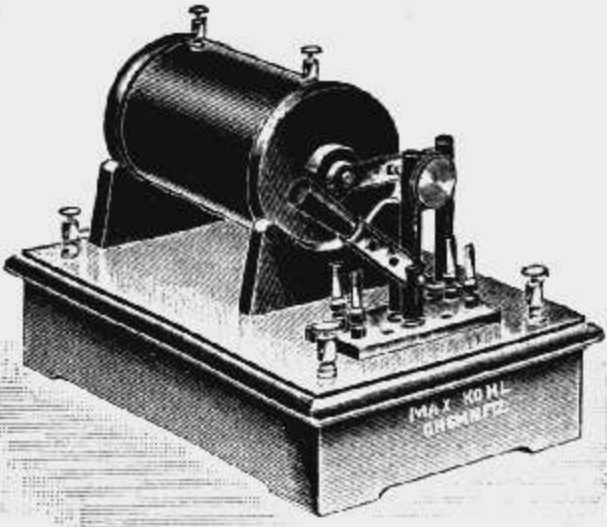
62 261	Oersted's Apparatus . . . . .	6
62 262	idem . . . . .	4
62 263	Apparatus with two astatically arranged Magnetic Needles .	2
62 264	Apparatus for Deflecting the Mag- netic Needle by the Electric Current . . . . .	10
62 265	Current Conductor for Experi- ments on the Deflection of the Magnetic Needle by the Elec- tric Current, after Kolbe . .	3
62 266	Magnetising Spiral. . . . .	1
62 267	idem . . . . .	1

No.	Object	Piece	No.	Object	Piece
62 318	Electric Motor after Ritchie . . .	24	62 371	Apparatus for explaining the Theory of Lines of Magnetic Force, after Szymansky . . .	1
62 319	Electromagnetic Motor after Page	2			
62 320	Electromagnetic Motor after Froment . . . . .	1	62 372	Apparatus for Demonstrating the Lines of Force Image, etc. . .	1
62 321	idem, for rotating Geissler Tubes	—	62 373	2 Sheets Cardboard . . . . .	2
62 322	idem, with suction pump . . .	1	62 375	2 Wire Coils . . . . .	3
			62 377	Demonstration Apparatus for Field of an Annular Conductor	4
	<b>Telegraphy.</b>		62 378	Apparatus for Demonstrating the Multiplication of the Current Effect . . . . .	—
62 323	Needle Telegraph . . . . .	2	62 379	Demonstration Apparatus for the Magnetic Field of a Solenoid	1
62 324	Morse Telegraph . . . . .	15	62 380	Apparatus for Demonstrating the Flow of the Magnetic Field in a Solenoid . . . . .	3
62 326	idem, for Schools . . . . .	4	62 381	Apparatus for the Magnetic Field of a Solenoid . . . . .	2
62 327	Morse Ink Writer . . . . .	3	62 382	Demonstration Apparatus for the Magnetic Field of a horse shoe Electromagnet . . . . .	4
62 328	Model of a Telegraph Station . . .	1	62 383	Ampere's Stand . . . . .	13
62 342	Morse Telegraph . . . . .	1	62 386	idem, large pattern . . . . .	1
62 343	idem . . . . .	—	62 387	idem, simple . . . . .	2
62 344	Morse Key . . . . .	3	62 388	Apparatus after Friedr. C. G. Müller . . . . .	6
62 345	Polarised Relay . . . . .	2	62 389	Apparatus after Mühlenbein . . .	2
62 346	idem, highly sensitive . . . . .	1	62 390	Apparatus for Müblenbein's experiment . . . . .	2
62 347	Relay . . . . .	4	62 391	Movable Conductor after Mühlenbein . . . . .	2
62 348	Polarised Relay . . . . .	1	62 393	Ampere's Stand, after Kolbe . . .	2
62 349	Simple Relay . . . . .	1	62 394	Simple Solenoid . . . . .	3
62 350	Electric Bell . . . . .	2	62 395	Tenfold Solenoid . . . . .	3
62 351	idem . . . . .	11	62 396	Curled Solenoid . . . . .	1
62 355	Electric Bell with Indicator disc drop . . . . .	1	62 397	Fixed Wire Frame . . . . .	3
62 359	Magneto Generator . . . . .	1	62 398	Tenfold Wire Frame . . . . .	2
62 362	Sections of Telegraph Cables . . .	—	62 400	Universal Stand, after Kolbe . . .	1
			62 403	Square Conductor . . . . .	6
	<b>Theory of Lines of Force.</b>		62 404	De la Rive's Floating Current	2
62 363	Wood Frame . . . . .	—	62 405	Rotary Solenoid with Iron Stopper	2
62 365	Apparatus after Töpler . . . . .	4	62 407	Apparatus after Buff . . . . .	3
62 366	Model for explaining the Direction in which the lines of Magnetic Force encircle a Conductor . . . . .	4	62 408	Roget's Spiral . . . . .	7
62 367	Wire Coil . . . . .	7	62 409	Apparatus after Garthe . . . . .	6
62 368	Zinc Plate . . . . .	4	62 410	Electro-dynamie Double Pendulum . . . . .	2
62 369	Apparatus for demonstrating the Lines of Force of Current Conductors, after Bauernberger . . . . .	2			
62 370	1 Set Apparatus for explaining the Lines of Force Theory, after Berghoff . . . . .	6			



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No.	Object	Piece	No.	Object	Piece
62 411	Barlow's Wheel . . . . .	8	62 464	Magnetic Hammer Break . . . . .	9
62 412	idem . . . . .	4	62 466	Induction Coils with Magnetic Hammer Break . . . . .	4
62 413	Apparatus for the Rotation . . . . .	3	62 467	Slide Induction Apparatus with Magnetic Hammer Break . . . . .	4
62 414	idem . . . . .	—	62 469	Slide Induction Apparatus, after Dubois-Reymond . . . . .	1
62 416	idem . . . . .	6	62 470	Apparatus for showing the Extra Current, after Dr. Geschöser . . . . .	4
62 417	idem . . . . .	10	62 471	Apparatus for demonstrating the Extra Current . . . . .	4
62 418	Apparatus after Faraday . . . . .	2	62 472	Experimental Arrangement for proving Self-induction, after Kann . . . . .	6
62 419	idem, simpler . . . . .	3	62 479	Induction Coil for calibrating Ballistic Galvanometers . . . . .	1
62 420	Apparatus for the Electro-magnetic Action on Flexible Conductors . . . . .	3	62 480	Apparatus after Plücker and Fessel . . . . .	6
62 421	idem, double preceding size . . . . .	1	62 482	Apparatus for showing Damping by Induction . . . . .	3
62 422	Apparatus after Weinhold . . . . .	5	62 483	idem, after Weinhold . . . . .	4
<b>Induction Currents.</b>			62 484	v. Waltenhofen's Pendulum . . . . .	6
62 423	Horse-shoe Magnet with Armature	3	62 485	Accessories for Dia- and Paramagnetic Experiments . . . . .	10
62 424	Model for explaining the Laws of Magnetic Induction . . . . .	3	62 486	Apparatus for showing the Damping Action of Induction . . . . .	1
62 425	Automatic Induction Indicator	4	62 489	Apparatus for Generating Eddy Currents . . . . .	5
62 426	Apparatus for Explaining the Existence of the Magnetic Induction Current . . . . .	4	62 491	Standard Secondary Winding size 5 . . . . .	1
62 427	Simple Earth Inductor . . . . .	6	62 492	idem, size 6 . . . . .	4
62 428	Coil for showing Induction by the Earth's Field . . . . .	4	62 493	idem, size 7a . . . . .	1
62 430	Earth Inductor after Palmieri	7	62 545	idem, size 7b . . . . .	1
62 433	Iron Bar . . . . .	2	<b>Induction Coils etc.</b>		
62 434	Induction Coil . . . . .	3	62 611	Induction Coil . . . . .	1
62 435	Apparatus after Faraday . . . . .	5	62 615	idem . . . . .	1
62 436	Magnetic Induction Machine, after Stöhrer . . . . .	2	62 619	idem . . . . .	5
62 437	2 Grips . . . . .	5	62 620	Induction Coil with Mercury and Platinum Interrupters, size 000 . . . . .	2
62 439	Stand for clamping thin Carbon Rods . . . . .	2	62 621	idem, size 00 . . . . .	2
62 442	Apparatus for Experiments on Induction, after Kolbe . . . . .	1	62 623	idem, size 1 . . . . .	1
62 444	2 Induction Coils . . . . .	7	62 635	Induction Coil . . . . .	—
62 445	idem . . . . .	11	62 636	Induction Coil with Mercury and Platinum Interrupters, size 4 . . . . .	2
62 447	Induction Coil . . . . .	2	62 637	idem, size 5 . . . . .	2
62 448	2 Wire Coils . . . . .	6			
62 450	Induction Coil with Interrupting Wheel . . . . .	1			
62 452	Interrupting Wheel alone . . . . .	5			
62 461	2 Wire Coils . . . . .	13			
62 462	idem, larger . . . . .	3			
62 463	2 Induction Coils . . . . .	2			

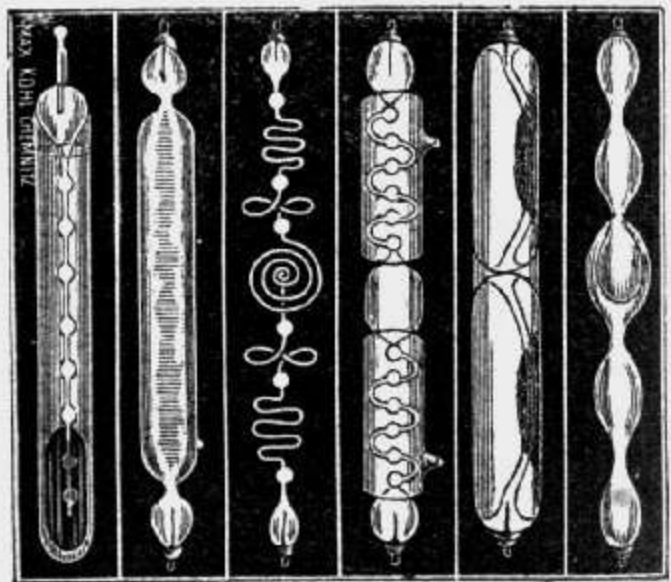
No.	Object	Piece	No.	Object	Piece
62 639	Induction Coil . . . . .	—			
62 641	idem . . . . .	1			
62 654	Small Induction Coil . . . . .	2			
62 655	idem . . . . .	3			
62 656	Induction Coil . . . . .	3			
62 658	Small Induction Coil, with simple Commutator . . . . .	2			
					
62 624. 1:8.					
62 659	Induction Coil . . . . .	2			
62 660	Small Induction Coil, with simple Commutator . . . . .	2			
62 661	Induction Coil . . . . .	13			
62 666	Wehnelt Interrupter for Direct Current . . . . .	6			
62 667	idem . . . . .	1			
62 670	Motor Mercury Interrupter . . . . .	—			
62 672	idem, light pattern . . . . .	—			
62 682	Sparking Pillars . . . . .	13			
62 683	idem . . . . .	6			
62 685	idem . . . . .	3			
62 688	X-Ray Tube, spark-length 120 mm . . . . .	14			
62 689	idem " " 200 mm . . . . .	11			
62 690	idem " " 300 mm . . . . .	8			
62 691	idem " " 400 mm . . . . .	2			
62 692	idem " " 500 mm . . . . .	1			
62 724	Cryptoscope . . . . .	—			
62 725	idem . . . . .	—			
62 726	idem . . . . .	11			
62 727	idem . . . . .	1			
62 728	idem . . . . .	1			
62 729	idem . . . . .	1			
62 730	Cardboard with Strips of different Metals . . . . .	6			
62 732	Plate for placing on the Electrometer . . . . .	1			
				<b>Dynamos.</b>	
			62 733	Apparatus for Explaining the Magnetic Induction etc . . . . .	5
			62 734	Model of a Pacinotti-Gramme Machine . . . . .	1
			62 735	idem . . . . .	8
			62 737	Model of a Magneto Electric Machine . . . . .	2
			62 741	Model of a Direct Current Dynamo . . . . .	4
			62 744	Current Conductor . . . . .	2
			62 745	idem . . . . .	2
			62 746	idem . . . . .	1
			62 747	idem . . . . .	2
			62 748	idem . . . . .	1
			62 749	Siemens H-Armature . . . . .	2
			62 750	Iron Ring . . . . .	1
			62 751	Gramme Ring . . . . .	4
			62 753	Model of a Dynamo with Gramme Ring . . . . .	5
			62 754	Apparatus for explaining the Direct Current Machine having Ring Armature . . . . .	5
			62 75b	Apparatus for Demonstrating the Passage of the Current in the Gramme Ring etc. after Hammerl . . . . .	3
			62 756	4 Mechanically Movable Plates . . . . .	6
			62 757	Model of a Gramme Ring . . . . .	3
			62 758	Model of a Schuckert Flat Ring . . . . .	9
			62 759	Model of a Siemens Armature . . . . .	12
			62 761	Model of a Drum Armature . . . . .	7
			62 762	idem, after Weinhold . . . . .	2
			62 762a	idem, of pasteboard . . . . .	—
			62 763	Iron Ring . . . . .	3
			62 764	idem . . . . .	1
			62 765	Winding Formers, 10 pieces . . . . .	2
			62 766	idem, 10 pieces . . . . .	4
			62 766a	Closed Iron Ring . . . . .	—
			62 767	Direct Current Dynamo . . . . .	8
			62 768	Machine alone . . . . .	9
			62 770	Shunt Dynamos for Direct Current, etc. . . . .	3
			62 771	idem . . . . .	9
			62 772	idem . . . . .	7
			62 773	idem . . . . .	1
			62 774	idem . . . . .	5

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No.	Object	Piece	No.	Object	Piece
62 775	Shunt Dynamos for Direct Current etc. . . . .	5			
62 776	idem . . . . .	7			
62 777	idem . . . . .	4			
62 781	idem . . . . .	1			
62 782	idem . . . . .	2	62 896	Alternating and Three-phase Current Machine . . . . .	—
62 783	idem . . . . .	5	62 898	Model of a Three-phase Motor	1
62 784	idem . . . . .	2	62 899	Reversing Switch for above . . . . .	2
62 785	idem . . . . .	1	62 902	Demonstration Apparatus for Rotating Field Experiments	14
62 786	idem . . . . .	4	62 903	idem . . . . .	5
62 787	idem . . . . .	3	62 904	Glow Wires for above . . . . .	3
62 789	idem . . . . .	1	62 905	Model of a Three-phase Motor	10
62 790	idem . . . . .	3	62 906	idem . . . . .	4
62 797	Glow Lamp Stand . . . . .	8	62 907	idem . . . . .	7
62 799	idem . . . . .	4	62 908	Model of a Two-phase A. C. Motor	8
62 800	idem . . . . .	3	62 909	idem . . . . .	3
62 801	idem . . . . .	4	62 910	idem . . . . .	12
62 802	Glow Lamp Stands with Plugging Device . . . . .	5	62 912	Three-phase Motor and Two-phase Motor . . . . .	2
62 803	idem . . . . .	4	62 913	idem . . . . .	4
62 807	Demonstration Nernst Lamp . . . . .	3	62 914	idem . . . . .	4
62 809	Carbon Filament Lamp . . . . .	3	62 915	Alternator . . . . .	2
62 810	Glow Lamp Model . . . . .	1	62 916	Three-phase Motor . . . . .	2
62 811	Steel Wire for Glowing Experiments . . . . .	—	62 917	Two-phase Alternator, after Braun	3
62 812	idem . . . . .	—	62 918	Two-phase A. C. Motor, after Braun	1
62 813	idem . . . . .	—	62 921	Tesla Motor after Weiler . . . . .	1
62 814	idem . . . . .	—	62 922	Crossed Coils after Ferraris . . . . .	—
62 815	Small Arc Lamp . . . . .	7	62 923	Two-phase Alternator . . . . .	1
62 816	Arc Lamp, larger . . . . .	4	62 924	Commutator . . . . .	4
62 818	Contact Lamp . . . . .	4	62 928	Aluminium Egg after Thomson	2
62 820	Jablochkoff's Candle . . . . .	54	62 930	Apparatus after Behrend . . . . .	3
62 821	Holder with Terminals for above	11	62 931	idem, transparent . . . . .	4
62 822	Carbon Terminals after Brüsck	4	62 932	Apparatus after Moser . . . . .	3
62 823	Small D. C. Electric Motor . . . . .	7	62 933	Model of a Star Connection . . . . .	3
62 830	Direct Current Motor . . . . .	1	62 934	Model of a Delta Connection . . . . .	1
62 841	Direct Current Motor, for 220 Volts . . . . .	1	62 935	Board for Explaining the Star and Delta of connecting . . . . .	2
62 885	idem, for 220 Volts . . . . .	1	62 964	Three-phase Motor . . . . .	4
62 887	Sliding Resistance . . . . .	1	62 965	idem . . . . .	—
62 888	Stepped Gearing for Laboratories	2	62 966	Alternating Current Transformer	—
62 891	Electric Railway . . . . .	—	62 967	idem . . . . .	1
62 894	Hand Tachometer . . . . .	5	62 968	idem . . . . .	3
			62 969	idem . . . . .	3
			62 970	idem . . . . .	2
			62 971	idem . . . . .	1
			62 972	idem . . . . .	1

No.	Object	Piece	No.	Object	Piece
62 973	Three-phase Transformer . . .	—	63 029	Geissler Tubes . . . . .	2
62 974	idem . . . . .	2	63 030	idem . . . . .	4
62 976	Alternating Current Transformer	2	63 031	idem . . . . .	2
62 978	Apparatus after Elihu Thomson	2	63 032	idem . . . . .	3
62 979	idem, smaller pattern . . . . .	9	63 033	idem . . . . .	3
62 980	Apparatus after Elihu Thomson, simple . . . . .	2	63 034	idem . . . . .	2
62 981	Magnetizing Ring . . . . .	5	63 036	Geissler Tube with 4 fluorescent liquids . . . . .	2
62 989	Apparatus after Elihu Thomson	2	63 037	Geissler Tubes . . . . .	2
<b>Apparatus after Prof. E. Grimsehl.</b>			63 038	Geissler Tube with 2 fluorescent liquids . . . . .	1
63 000	Apparatus for Demonstrating the Lines of Force Images of a linear Wire . . . . .	5	63 041	Geissler Tubes . . . . .	1
63 001	Brass Rod . . . . .	4	63 042	Geissler Tube with luminescent gas, 35 cm long . . . . .	1
63 002	Brass Disc . . . . .	2	63 043	Geissler Tubes . . . . .	1
63 003	Apparatus for Measurements of the Density of the Magnetic Field . . . . .	4	63 044	Geissler Tube with luminescent gas, 50 cm long . . . . .	1
63 004	Device for showing the Depen- dence of the Density of the Magnetic Field on the Radius of the Current-carrying Ring	1	63 046	Geissler Tubes . . . . .	2
63 005	Complementary Parts to Pole Balance No. 60 135 . . . . .	4	63 047	idem . . . . .	2
63 006	Coil for Generating a Homo- geneous Magnetic Field . . .	1	63 048	idem . . . . .	—
63 007	Electromagnet with 2-Foot Ter- minals, 1 Switch and Flexible	1	63 049	idem . . . . .	—
63 008	Pole-determining Cell . . . . .	1			
63 009	Device for Generating a power- ful Induction Current . . . . .	3			
63 010	Device for Shunting small Potential-differences . . . . .	—			
<b>Electric Conduction in Gases.</b>					
63 020	Geissler Tubes . . . . .	5	63 050	idem . . . . .	1
63 021	6 Geissler Tubes of different shape and colour . . . . .	5	63 051	Geissler Tube with luminescent gas, filled with 2 gases . . .	5
63 022	Geissler Tubes . . . . .	6	63 052	Geissler Tubes . . . . .	2
63 023	idem . . . . .	3	63 057	Geissler Tube with luminescent gas, with mercury salts . . .	7
63 024	idem . . . . .	6	63 058	Holtz's Tube . . . . .	1
63 028	idem . . . . .	3	63 059	Hittorff's Tube . . . . .	3
			63 061	Vacuum Scala after Cross . . .	—



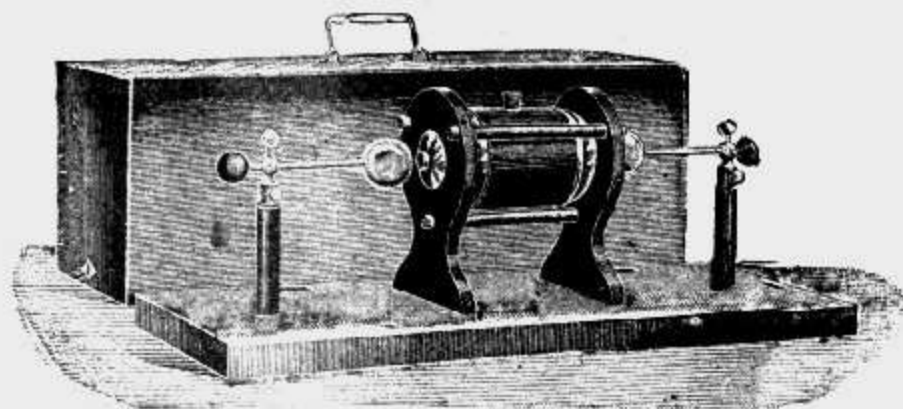
63 032. 1:6.

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No.	Object	Piece	No.	Object	Piece
63 066	Vacuum Bulbs with Tesla vacuum, with base . . . . .	1			
63 071	Stands for clamping Geissler Tubes . . . . .	5		<b>Electron Theory and Radioactivity.</b>	
63 072	idem . . . . .	9			
63 074	idem . . . . .	3	63 149	Elder Pith Ball . . . . .	2
63 075	Ozone Generating Tube . . . . .	1	63 150	Hollow Polished Metal Sphere . . . . .	2
63 076	idem . . . . .	5	63 151	Small Wood Board . . . . .	2
63 077	Angle Mirror for Geissler Tubes . . . . .	2	63 152	Leyden Jar, 16 cm high. . . . .	3
63 078	Apparatus after De la Rive . . . . .	2	63 153	Ebonite Disc . . . . .	2
63 079	idem . . . . .	4	63 154	Cardboard Disc . . . . .	1
63 080	idem . . . . .	7	63 155	idem . . . . .	1
63 081	Radiant Matter . . . . .	4	63 156	Electroscopic Powder . . . . .	2
63 082	Crookes Tube No. 1 . . . . .	—	63 159	Vacuum Tube after Perrin . . . . .	2
63 083	idem, No. 2. . . . .	6	63 161	Glass Plate . . . . .	2
63 085	idem, No. 4. . . . .	1	63 162	Zinc disc . . . . .	2
63 086	idem, No. 5. . . . .	8	63 168	Spintharoscope . . . . .	28
63 087	idem, No. 6. . . . .	3	63 169	idem, without Magnifier . . . . .	3
63 088	idem, No. 7a and b . . . . .	5	63 170	Case containing Collection of Radioactive Preparations . . . . .	4
63 089	idem, No. 8. . . . .	6	63 173	Willemite . . . . .	—
63 090	idem, No. 9. . . . .	2	63 180	Apparatus for Studying Induced Radioactivity . . . . .	—
63 091	Cross-shadow Tube . . . . .	1	63 181	Electrometer . . . . .	3
63 092	Tubular Magnet Coil for above Crookes Tube No. 11. . . . .	2	63 182	Electrometer after Curie . . . . .	—
63 093	idem, No. 12 . . . . .	3	63 183	idem, without reading microscope . . . . .	1
63 094	idem, No. 13 . . . . .	1	63 200	Fontactoscope. . . . .	1
63 095	idem, No. 14 . . . . .	1	63 201	Zamboni Pile . . . . .	2
63 096	idem, No. 15 . . . . .	1	63 203	Case . . . . .	1
63 097	idem, No. 16 . . . . .	2	63 204	Electrometer for Radioactive Measurements, especially on waters. . . . .	1
63 098	idem, No. 17 . . . . .	6			
63 099	idem, No. 18 . . . . .	2		<b>Apparatus for Tesla's Experiments with Currents of High Frequency and Tension.</b>	
63 100	idem, No. 19 . . . . .	7	63 206	Complete Apparatus after Tesla . . . . .	2
63 101	idem, No. 21 . . . . .	4	63 207	Leyden Jar Battery . . . . .	2
63 102	Radiant Elektron-Material. . . . .	2	63 208	Spark Micrometer . . . . .	3
63 108	Electric Radiometer . . . . .	3	63 209	idem with silencing box of wood . . . . .	4
63 109	idem . . . . .	3	63 210	High Tension Transformer . . . . .	—
63 111	Phosphorescent Lamp . . . . .	1	63 211	idem, considerably larger . . . . .	2
63 113	Valve Tube. . . . .	—	63 212	idem, with Oil Insulation . . . . .	3
63 115	Vacuum Tube. . . . .	2			
63 116	Vacuum Tube with three different phosphorescent minerals . . . . .	1			
63 117	Vacuum Bulb . . . . .	2			
63 118	Radiometer. . . . .	2			
63 129	Canal Ray Tube . . . . .	1			
63 131	Canal Ray Tube after Wien. . . . .	1			
63 145	Thomson's Luminous Sphere. . . . .	1			
63 148	Electrodeless Tube. . . . .	—			

No.	Object	Piece	No.	Object	Piece
63 213	2 Induction Spirals . . . . .	9	<b>Seibt's Apparatus for demonstrating the Resonance of Electric Waves.</b>		
63 216	Discharger . . . . .	3			
63 217	idem . . . . .	2			
63 219	Copper Stirrup . . . . .	2			
63 220	idem . . . . .	2			
63 221	idem, after Kann . . . . .	4			
63 222	2 Brass Plates . . . . .	4			
63 223	Leyden Jar. . . . .	2			
63 225	2 Circular Stout Copper Wires	2			
63 226	2 Parallel Copper Wires . . . .	4			
63 227	Tesla Lamp . . . . .	8	63 252	Large Resonance Coil . . . . .	2
63 228	Electrodeless Tube. . . . .	56	63 253	idem . . . . .	3
63 229	idem . . . . .	—	63 254	Resonator after Oudin . . . . .	1
63 230	idem . . . . .	—	63 255	Variable Self-induction . . . . .	2
63 232	idem . . . . .	1	63 256	2 Small Resonance Coils . . . .	3
63 233	idem . . . . .	7	63 257	Extra Resonance Coil . . . . .	—
			63 258	idem . . . . .	—
			63 259	2 Leyden Jars . . . . .	5
			63 260	idem . . . . .	2
			63 261	idem . . . . .	2
			63 262	Oil Condenser. . . . .	1



63 309 A. 1:10.

63 234	Evacuated Bulb . . . . .	1	<b>Apparatus for the Experiments on Electric Power Rays, after Prof. Heinrich Hertz.</b>		
63 235	Rectangle of Tubes . . . . .	1			
63 236	Evacuated Bulb . . . . .	2			
63 237	Bulb . . . . .	—			
63 238	idem . . . . .	—			
63 241	Complete Set of Tesla Apparatus after Weinhold . . . . .	2			
63 243	Oil-insulated High Tension Transformer . . . . .	1			
63 249	Leyden Jars for Lodge's Re- sonance Experiment . . . . .	4			
63 250	Apparatus for Generating Cur- rents of High Frequency and Voltage by Resonance, after Oudin . . . . .	1			
63 251	Vacuum Tube for demonstrating the oscillatory character of Leyden Jar Discharges. . . . .	2			
			63 267	Apparatus after Grimsehl. . . . .	—
			63 268	2 Parabolic Mirrors, etc. . . . .	—
			63 269	Paraffin Prism . . . . .	—
			63 270	Complete Set for demonstrating all essential Experiments with Hertzian Waves and Wireless Telegraphy, after Weinhold . . . .	3
			63 271	Hertzian Wave Transmitter. . . . .	1
			63 272	Transmitter for Wireless Tele- graphy . . . . .	3
			63 275	1 Coherer . . . . .	1
			63 280	Octagonal Wire Grating . . . . .	2
			63 283	Primary Conductor . . . . .	1
			63 284	Secondary Conductor . . . . .	1

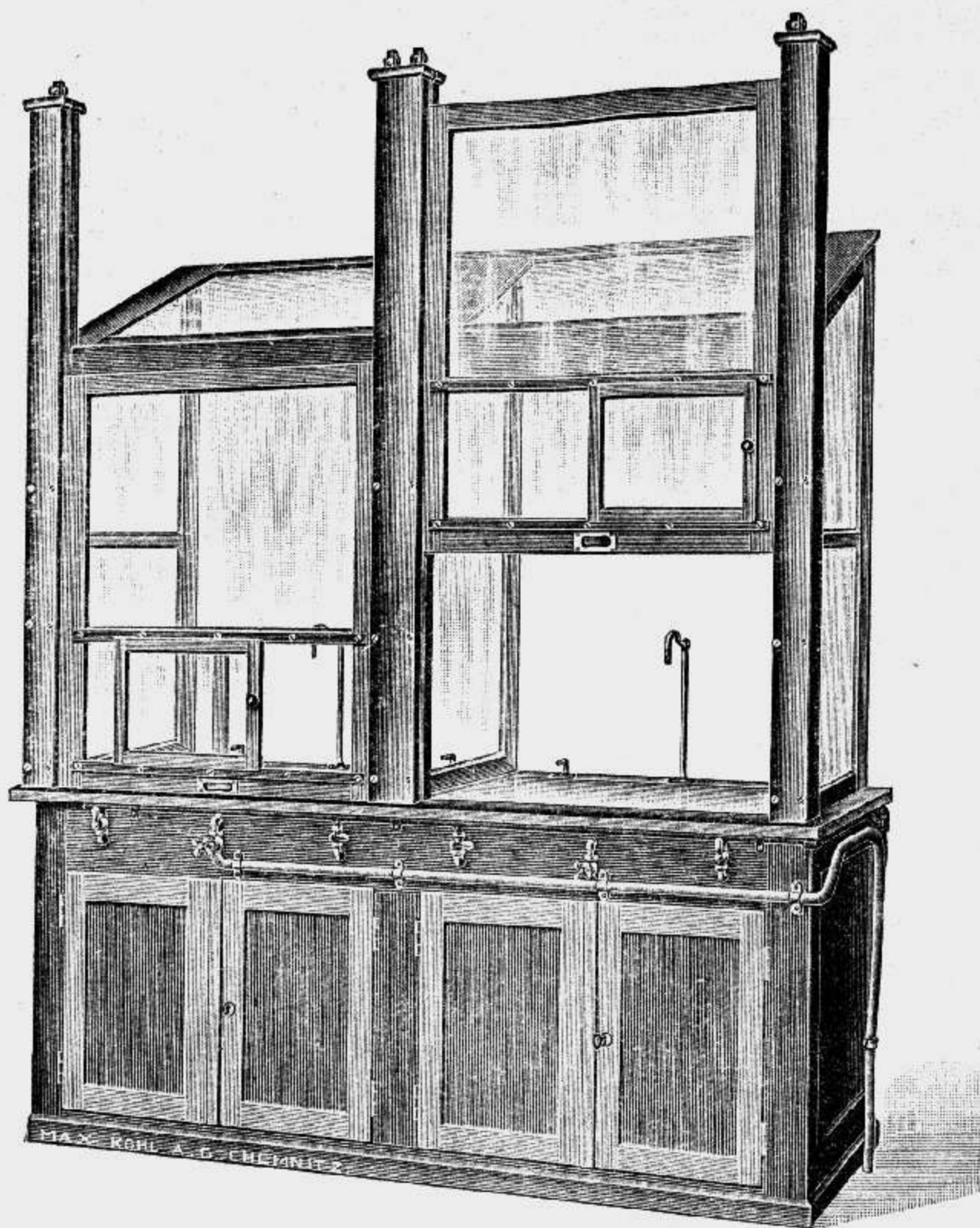
Max Kohl A. G. in Chemnitz.

Max Kohl A. G. in Chemnitz.

No.	Object	Piece	No.	Object	Piece
63 286	Apparatus for demonstrating and measuring Stationary Electric Waves on Wires . . . . .	1	63 337	Device for Clipping and Shaking the Coherer . . . . .	2
63 287	idem . . . . .	4	63 338	Round pattern polarised Relay	1
63 288	Lecher Tube . . . . .	4	63 340	Assembled Receiving Station .	1
63 289	Apparatus after Walter Biegon von Czudnochowsky . . . . .	5	63 341	Magnetic Detector after Marconi	1
63 292	Apparatus after Coolidge-Blondlot . . . . .	3	63 345	Zickler Tube . . . . .	1
63 294	Wavemeter after Drude . . . . .	2	63 347	Glass Plate . . . . .	1
63 294a	Tesla Transformer with Leyden Jar . . . . .	4	<b>Telephony and Microphony.</b>		
63 295	Helium Tube . . . . .	1	63 360	Apparatus for Explaining the Working of the Telephone .	1
<b>Wireless Telegraphy (Radio-telegraphy).</b>			63 361	Telephone in Glass Case . . . . .	4
63 302	Wireless Telegraphy Demonstration Apparatus . . . . .	4	63 362	Telephone after Bell . . . . .	4
63 305	idem, perfected pattern . . . . .	3	63 367	Round Pattern Telephone . . . . .	—
63 308	Apparatus for comparative Explanation of Wireless and Ordinary Telegraphy . . . . .	2	63 370	Precision Telephone . . . . .	1
63 309	Wireless Telegraphy Demonstration Apparatus, after Marconi . . . . .	5	63 373	20 metres Twin Flexible . . . . .	3
63 310	Wireless Telegraphy Demonstration Apparatus . . . . .	13	63 374	Microphone after Weinhold . . . . .	3
63 312	Portable Apparatus for demonstrating Wireless Telegraphy	3	63 375	idem, after Hughes . . . . .	7
63 319	Morse Ink Writer . . . . .	3	63 377	Model of a Micro-telephone Station . . . . .	—
63 323	Complete Wireless Telegraphy Demonstration Apparatus after Prof. Braun . . . . .	3	63 378	Model of a complete Telephone Installation . . . . .	—
63 325	Coherer Tester . . . . .	1	63 380	Loud-speaking Telephone . . . . .	1
63 326	Complete Wireless Telegraphy Demonstration Apparatus after Slaby-Arco . . . . .	3	63 386	Series Resistances . . . . .	2
63 327	Wireless Telegraphy Demonstration Apparatus "Telefunken" System . . . . .	1	63 389	Microphone . . . . .	3
63 328	Branly Tube . . . . .	5	63 390	Induction Coil . . . . .	—
63 329	Automatic Needle Coherer . . . . .	1	63 391	Microphone with Switch and Regulating Resistance . . . . .	1
63 331	Thermocouple . . . . .	—	63 392	Small Induction Coil . . . . .	2
63 333	Key . . . . .	1	63 395	Condenser Lens on Stand . . . . .	2
63 334	idem . . . . .	3	63 397	Concave Mirror with Selenium Cell . . . . .	4
63 335	Morse Key . . . . .	1	63 398	Photophonic Transmitting Station for Acetylene Light . . . . .	3
63 336	Adjustable Steel Coherer . . . . .	2	63 400	Photophonic Apparatus for Acetylene Light . . . . .	2
			63 402	<b>Selenium Cells.</b>	
				Selenium Cell, flat rectangular shape . . . . .	12
			63 404	idem, round pattern . . . . .	3
			63 405	Selenium Cell, round pattern . . . . .	2
			63 407	idem, cylindrical . . . . .	4
			63 408	Flat Selenium Cell . . . . .	1
			63 410	Apparatus for Showing the Sensitivity of Selenium to Light . . . . .	2

No.	Object	Piece	No.	Object	Piece
	<b>Thermo-electricity.</b>		63 442	Electrothermic Apparatus after Schumann . . . . .	—
	<b>Miscellanea.</b>		63 443	Electrothermic Apparatus . . .	3
63 411	Thermo-electric Apparatus . . .	—	63 444	Termocouple after Wunder . . .	6
63 412	Thermo-electric Rectangle . . .	11	63 447	Model for Explaining the Pythagorean Theorem . . . . .	1
63 413	Rod-shaped Thermocouple . . .	4	63 505	1 Set Crystal Models in Case	1
63 414	Thermocouple after Pouillet . . .	3	63 533	Heart . . . . .	1
63 416	Needle-shaped Thermocouple . . .	1	63 560	Pendulum Dynmeter . . . . .	3
63 417	Thermocouple . . . . .	4	63 566	Leyden Jar Battery . . . . .	—
63 418	Thermo-cell . . . . .	4	63 567	idem . . . . .	5
63 419	Thermo-pile after Melloni . . .	—	63 568	idem . . . . .	—
63 420	Apparatus for Determining Temperature with Thermocouple	2	63 569	Condensser after Cavendish . . .	1
63 421	Noë's Thermopiles . . . . .	2	63 585	Switchboard for Accumulators	1
63 423	idem . . . . .	—	63 586	Carton with a Glass Strip 6 mm thick . . . . .	3
63 424	idem, larger model . . . . .	—	63 587	Fluorescent Screen . . . . .	1
63 440	Thermo - electric Cross after Peltier . . . . .	—	63 589	Metal Disc with Insulating Grip	4
63 441	Apparatus for Peltier's Experiment, after Weinhold . . . . .	3	63 604	Thermopile after Indrikson . . .	—



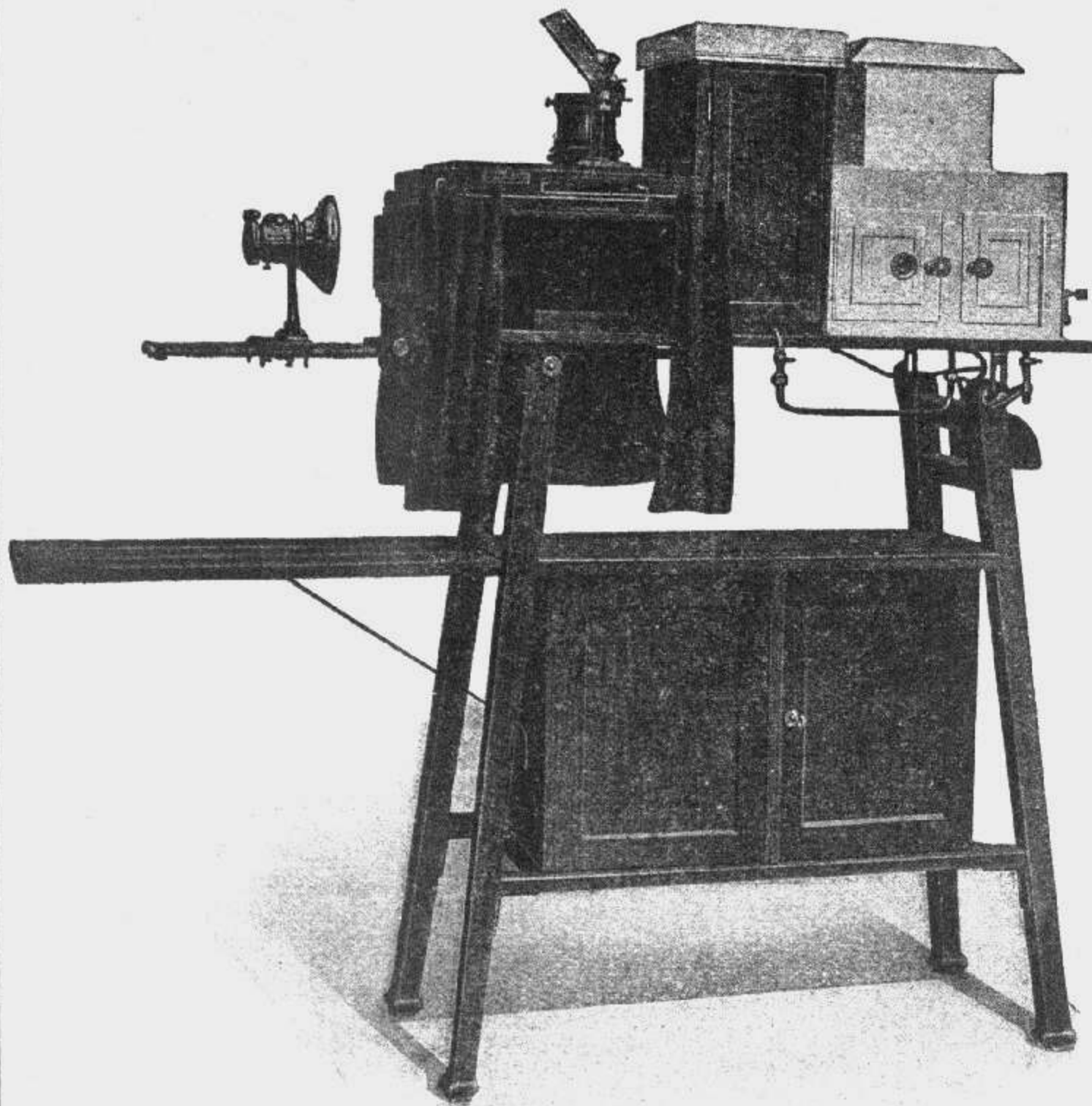


8151 12:1

Stink Cupboard with Cupboard Substructure

Cl. 6766

## Equipment of Laboratory Rooms



63 750 1:16

**Megadiascope, model A,**

for projecting diapositives up to  $9 \times 12$  cm and opaque illustrations up to 17 cm diameter projector arc lamp, handregulated, for direct current of 25 to 30 amperes, parabolic mirror 200 mm in diameter cooled with water, achromatic projection objective of 150 mm focal length, focussing being secured by rack and pinion, continuous cooling water trough, objective carrier on slider, diapositive change-frame for diapositives.

Cl. 7217