



53 201. 1:7.



53 204. 1:3.



53 199. 1:6.



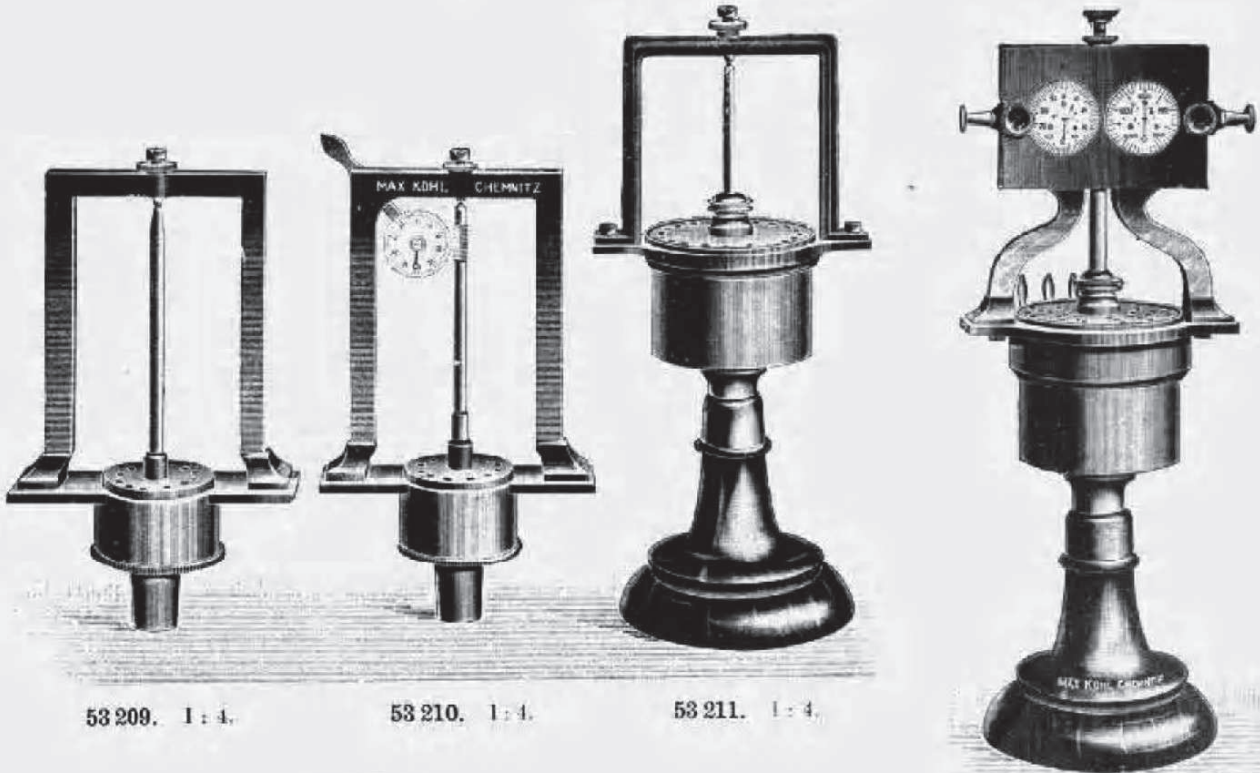
53 208. 1:3.

Sound Generation, Sirens and Blowers.

£ s. d.

Max Kohl A. G. Chemnitz, Germany.

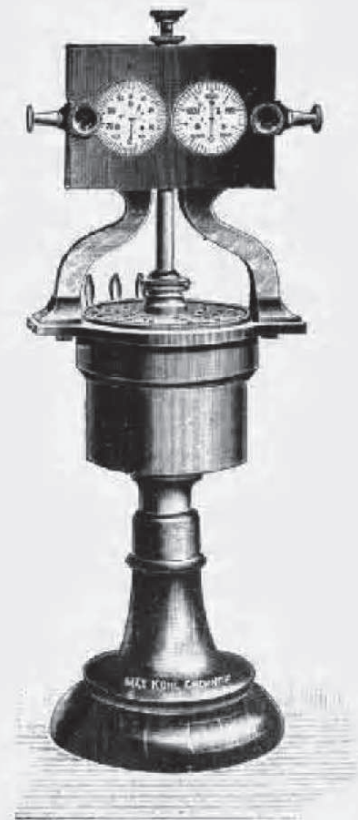
62,315. <b>Apparatus</b> after Wertheim, Figure 62,315, p. 957, for demonstrating the tones of steel when magnetized (M. P., 9 <sup>th</sup> Edn., III, Fig. 530) . . . . .	2. 10. 0
53,199. <b>Trevelyan's Rocker</b> , Figure (W. D. Fig. 206 [192]), with resonance box, for producing tones by a succession of concussions . . . . .	0. 15. 0
53,200. — <i>idem</i> , without resonance box . . . . .	0. 12. 0
53,201. — <i>idem</i> , after König, Figure . . . . .	0. 14. 0
52,028. <b>Savart's Toothed Wheels</b> , see Fig. 52,028, p. 283; 4 wheels, giving the common chord, suitable for Whirling Table, of zinc . . . . .	0. 9. 0
52,029. — <i>idem</i> , of brass . . . . .	0. 12. 0
52,021. <b>Siren Disc</b> , Fig. 52,021, p. 283 (Seebeck's Siren), with four rows of holes, giving the major chord, for placing on the whirling table . . . . .	0. 5. 0
53,203 a. <b>Siren Disc</b> , with 8 rows of holes, giving the scale, for the Whirling Table . . . . .	0. 7. 0
53,203 b. — <i>idem</i> , with 8 rows of holes, giving major and minor chords . . . . .	0. 7. 0
53,204. <b>Pipe with 4 nozzles</b> , Figure, for blowing the preceding Siren Discs . . . . .	0. 5. 0
52,026. <b>Siren Disc</b> after Oppelt, with 22 rows of holes, for placing on the Whirling Table The disc has 22 rows of holes: 15 give simple tones, 7 give different intervals as combined tones.	0. 16. 0
52,027. <b>Siren Disc</b> after Appunn, for placing on the Whirling Table, with 32 rows of holes; gives the simple chromatic scale, the passage of thirds, also the entire song, „Du Schwert an meiner Linken“ in the four parts . . . . .	3. 6. 0
52,024. <b>Wave Siren Disc</b> after König, for placing on the Whirling Table, with 2 tubes for blowing the rows of holes and the wave line . . . . . The Wave Siren Disc has 4 rows of holes having respectively 32, 40, 48 and 64 holes and a wave line on the edge corresponding to the algebraic addition of 4 sine curves corresponding with the above numbers of vibrations. When the wave line is blown upon, the result is a sound which is broken up by the ear into its single constituents, prima, third, fifth and octave. The disc is excellently adapted for explaining the sound action of the phonograph and gramophone.	0. 15. 0
52,025. — <i>idem</i> , after König, larger, shaped to correspond to the flame image of the tone. Is supplied in the intervals 8 : 9, 8 : 11, 8 : 12, 8 : 13, 8 : 15, 8 : 16, 8 : 18, 8 : 20, 8 : 23, 8 : 24 . . . . .	3. 6. 0
53,208. <b>Universal Mouthpiece for blowing the cavum oris, flasks etc.</b> ; comprising rubber tubing with flat tapering brass tube (W. D. p. 312), with conical endpiece for inserting in a valve aperture of the blowing table . . . . .	0. 7. 0
53,209. <b>Siren</b> after Cagniard de Latour, Figure, <b>small pattern</b> , with row of 12 holes, without counting mechanism (Helmholtz, Tonempfindungen, 4 <sup>th</sup> Edn., 1877, p. 22), with conical tube for placing on the wind chest. All holes are blown through simultaneously, thus adding to the intensity of the effect . . . . .	1. 10. 0
53,210. — <i>idem</i> , with counting mechanism, Figure (M. P. I, Figs. 673—675 [699—701]) . . . . .	2. 0. 0
53,211. — <i>idem</i> , larger pattern, with series of 20 holes, without counting mechanism, Figure, with conical tube attachment for placing on the wind chest and with <b>wood base</b> for protecting . . . . .	2. 10. 0
53,212. — <i>idem</i> , with counting mechanism . . . . .	4. 10. 0



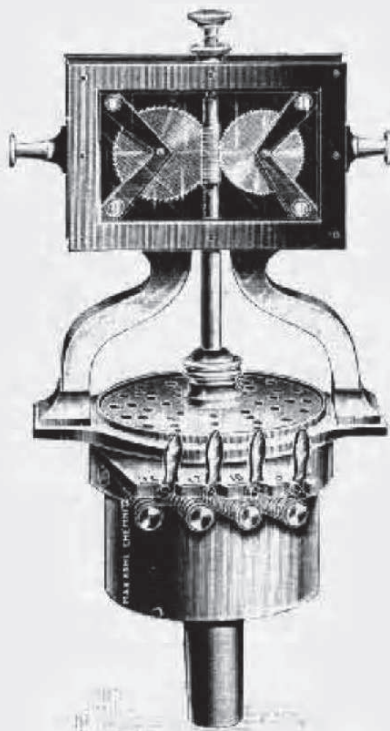
53 209. 1:4.

53 210. 1:4.

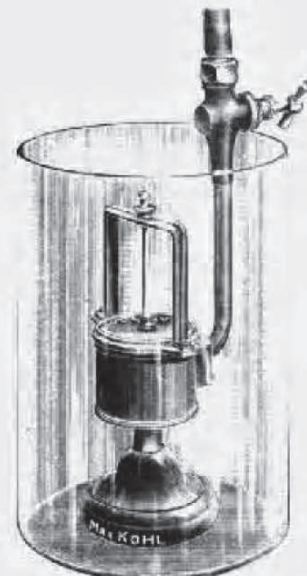
53 211. 1:4.



53 213 A. 1:4.



53 213 B. 1:3.



53 214. 1:6.

Max Kohl A. G. Chemnitz, Germany.

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|---|---------------------|
| 53,213. Chord Siren after Dove, Figs. A and B, with 4 stops with stop catches, to enable the tones to be sounded singly or together, and with counting mechanism (Helmholtz, Tonempfindungen, 4 <sup>th</sup> Edn., 1877, p. 23; M. P. I., Figs. 839, 840 [814, 815]) . . . . . | £ s. d.<br>6. 14. 0 |
| 53,214. Siren arranged to sound under water, Figure, with glass vessel . . . . .  | 6. 0. 0             |

This Siren, built on the principle of Cagniard de Latour, is placed in the glass vessel supplied and connected by a length of tubing either with the water lead or with a tank placed on a higher level. If the stopcock is opened the water flows through the siren and the latter sounds.

Cl. 3669, 3669a, 3669b, 3669c, 3669e, 3670.