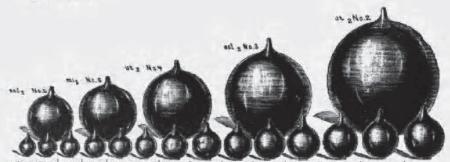


53517. 1:10.



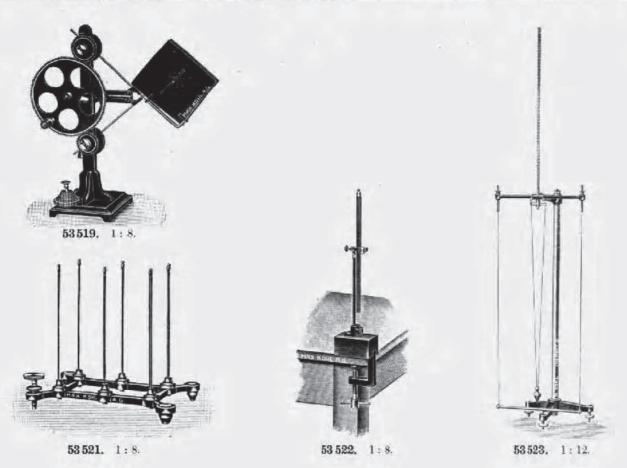
might be a to the season of th



53 518. 1:6.

53,282. Reed Pipe, Figure 53,282, p. 429, with sound horn, $c_{-1}=64$ compound vibrations (ut ₁ = 128 v. s.), deep tone	£ s, d.
53,512. 9 Resonators for above, spherical, open, of sheet zinc, accurately adjusted, from 2^{nd} to 10^{th} overtone of e_{-1} (ut ₁)	
53,513. — i d e m, closed	1. 10. 0
53,514. 11 Cylindrical Resonators, of pasteboard. Figure, covered, for the 2nd to 12th partial tone of c ₋₁ (ut ₁)	
53,515. 15. Resonators for Pipe No. 53,282, conical, covered, from $1^{\rm st}$ to $15^{\rm th}$ overtone (2 ^{md} to $16^{\rm th}$ partial tone) of c_{-1} (ut ₁).	
first 19 overtones of c., = 64 compound vibrations (at = 128 c., spherical, for the	
The resonators are constructed of stout sheet brass and accurately adjusted. In view of its bulky nature the fundamental tone is not included in the set	7. 10. 0
53,283. Reed Pipe with Sound Horn, cf. F i g u r e 53,282, p. 429, $e_0=128$ compound vibrations (ut ₂ = 256 v. s.), with deep tone	1. 6.0
	0.0

(1), 5311, 5445, 1107, 5933,



53,517. 10 Resonators for preceding, after Helmholtz, Figure, spherical, in perfect tone, | £ * d. for fundamental tone $c_0 = 128$ compound vibrations (ut, = 256 v. s.) and its first nine In this set of resonators the fundamental tone c_0 (ut₂) (first partial tone) is not included. 53,518. 14 Universal Resonators after König, Figure, consisting of two cylinders sliding one in the other, with graduation, to be employed for all tones from g , (sol,) to c3 (mis), The compass of the individual resonators is as follows: (1) g_{-1} to b_{-1} (sol, to si_1); (2) b_{-1} to d_{-6} (si, to re⁺2; (3) d_{-6} to f_{-6} (re⁺2 to f_{-2}); (4) f_{-6} to a_6 (f_{-6}); (5) a_6 to c_1 (f_{-6}); (6) f_{-6} 0 to f_{-6} 1 (or f_{-6} 1); (7) f_{-6} 1 to f_{-6} 2 (f_{-6} 3); (8) f_{-6} 3 as f_{-6} 4 to f_{-6} 3; (9) f_{-6} 4 to f_{-6} 4; (10) f_{-6} 5 to f_{-6} 6 (re⁴4 to f_{-6} 6); (11) f_{-6} 6 to f_{-6} 7 to f_{-6} 8); (12) f_{-6} 7 to f_{-6} 8); (13) f_{-6} 9 to f_{-6} 9 (re⁴4 to f_{-6} 9); (14) f_{-6} 9 to f_{-6} 9 (re⁴4 to f_{-6} 9); (15) f_{-6} 9 to f_{-6} 9 (re⁴4 to f_{-6} 9); (16) f_{-6} 9 to f_{-6} 9 (re⁴4 to f_{-6} 9); (17) f_{-6} 9 to f_{-6} 9 to f_{-6} 9 (re⁴4 to f_{-6} 9); (18) f_{-6} 9 to f_{-6} 9 (re⁴4 to f_{-6} 9); (19) f_{-6} 9 to f_{-6} Demonstration of Lissajous Curves. *53,519. Apparatus for Demonstrating the Lissajous Curves by Crank Motion, Figure, for projection as well as for drawing the curves on blackened glass plates (Fr. phys. Techn. 1,2, Fig. 3393 [I, 494]; W. D. Fig. 234, 220), with wheels for obtaining the ratios 20, 24, 30, 4. 4.0 53,520. Kaleidophone after Wheatstone, simple, one steel bar with spherical mirror on metal 0.10.053,521. Kaleidophone (Wheatstone's), Figure, with 6 rods having spherical metal mirrors, on iron stand with levelling serew, for producing 6 phases (M. P. I., Fig. 706 [730]) 2, 10, 0When struck, the differently shaped rods give directly the corresponding Lissajous curves. The figures shine well and large on the ceiling under incident light. 53,522. Universal Kaleidophone, after Melde, Figure, with adjustable metal strips and spherical metal mirror (M. P. L., Fig. 707 [731]), with serew clamp

52,124. Double Pendulum after Airy, Fig. 52,124A and B, pp. 296 and 297

53,523. Pendulum Apparatus for obtaining the vibration curves of Wheatstone and Lissajous,

1, 10, 0