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Physical Apparatus.

VOL. III.

Magnetism, Electricity, Radioactivity, Miscellanea.

Kolbe School Rheostat.

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CHEMNITZ (GERMANY)

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Fully paid-up Share Capital:
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L. 50, III c.

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62.021. **Wheatstone Bridge** after Weinhold, Figure, with 16 plugs (W. D. Fig. 517 [193]), £ s. d.
with ratio arms: 10; 100; 100; 10; and comparison rheostat: 1; 2; 3; 4; 10; 20; 30; 40;
100; 200; 300; 100 ohms

62.022. — 1 1/2 p. m. with 20 plugs, with the same ratio arms and with comparison rheostat:
0.1; 0.2; 0.3; 0.4; 1; 2; 3; 4; 10; 20; 30; 40; 100; 200; 300; 400 ohms

62.023. **Universal Pattern Wheatstone Bridge** after Kohlrausch, Figure, with 5 comparison resistances: 0.1, 1, 10, 100 and 1000 ohms; very practical for rapid measurements on wire resistances and electrolyte resistances.

The resistances are read directly (without table) on a scale. In conjunction with a suitable galvanometer, e.g., No. 61,297 or 61,360, the apparatus serves for resistance measurements of from 0.95 to 20,000 ohms of solid conductors. By using alternating currents, generated by a small induction coil on the apparatus, and a telephone instead of the galvanometer, it is possible to determine resistances of electrolytes, the internal resistances of cells, and the contact resistances of earth plates of lightning arresters.

62.024. **Box Telephone** for above, for determining the resistance of electrolytes, with coil wound to suit

62.025. **Kohlrausch Bridge**, without induction coil, otherwise as No. 62.023; range 0.05 to 20,000 ohms; can only be used for wire resistances by employing a suitable galvanometer, e.g., No. 61,297 or 61,360

62.026. **Portable Resistance Testing Set**, Figure, comprising Universal Bridge No. 62.023, Galvanometer No. 61,297, Telephone No. 62.024 and 3 Dry Cells, the whole in a solid lock-up oak carrying case, with handle

62.027. — 1 1/2 p. m., but without Galvanometer No. 61,360, which is independent of external magnetic influences and requires no special adjustment

62.028. **Wheatstone-Kirchhoff Bridge** without comparison resistances, Figure, with stretched wire 1 m long. The resistance of the measuring wire can be trebled by inserting wires of the same material, stretched in the open, at both ends. The Bridge has a well-guided slider with sliding contact which can be raised up, and an accurately divided millimetre rule

62.029. **Second Slider** with the slide wire, for calibrating the measuring wire and enabling the bridge to be used as a du Bois-Reymond current compensator or as a Thomson Double Bridge

Max Kohl A. G., Chemnitz, Germany.