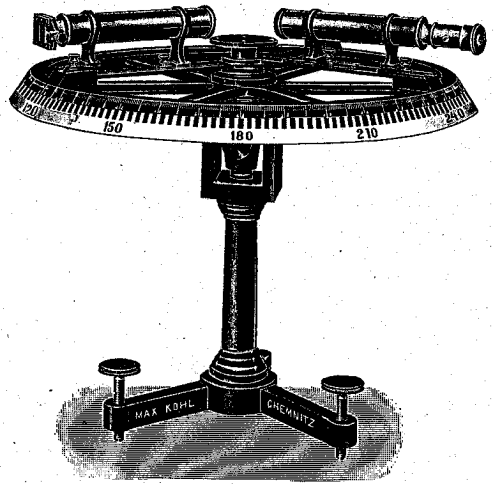
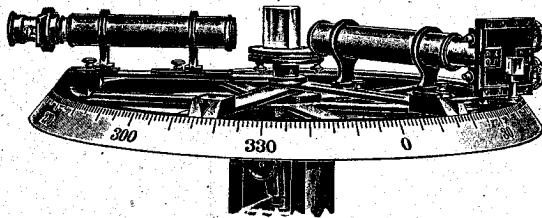


53806. 1:8.



53807. 1:7.



53809, 53806. 1:6.

53,806. **Demonstration Goniometer** after Weinhold, cf. Figure, large Pattern (W. D., Figs. 265—267 and 286—288 [251—253 and 270—271]) . . . . . £ s. d. 18. 0. 0

The Goniometer can be used horizontally and vertically. It is used for more accurate experiments on reflection, refraction and colour-dissipation, for determining the angles of prisms and refractive indices by Fraunhofer's, Meyerstein's or Listing-Abbe's Method, as a Goniometer and Spectrum Apparatus. Height, 50 cm; diameter of circle, 55 cm. The apparatus is graduated in whole degrees.

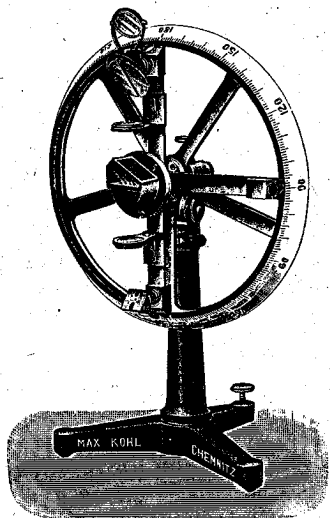
The accessories comprise a centering plate for crystals, a plane mirror in mount, a water-vessel with gap, a gap with illuminating mirror, one index, two lenses, one collimator tube, one observing telescope, one prism of flint glass, 45 mm side, and a key. All parts placed in a box.

53,807. — *idem*, with a second graduation on brass in whole degrees and with vernier reading, for subjective observations, Figure . . . . . 21. 0. 0

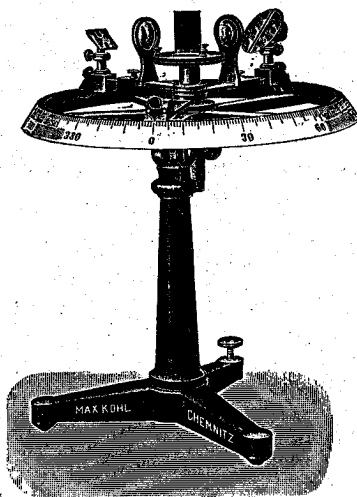
53,808. — the same apparatus as No. 53,806, but without Telescopes, without prism or box; cannot be used as a Spectrometer, etc. . . . . 15. 0. 0

53,809. **Ocular with Gap** for the observation telescope, and **Symmetrical Double Gap** after Vierordt (v. Konkoly, Handbuch der Spektroskopiker, Halle, 1890, pp. 388—390), for the collimator tube of the Weinhold Goniometer No. 53,806 or 53,807 (cf. Fig. 53,809), in order to enable the apparatus to be used in addition as a **Spectrophotometer** . . . 7. 10. 0

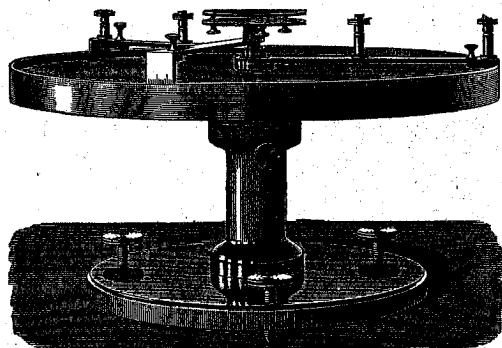
Ocular and double gap can be set up forthwith on the observation telescope or collimator telescope supplied with Nos. 53,806 or 53,807. The illustration shows the demonstration goniometer arranged in the manner in which it is used as a spectrophotometer.



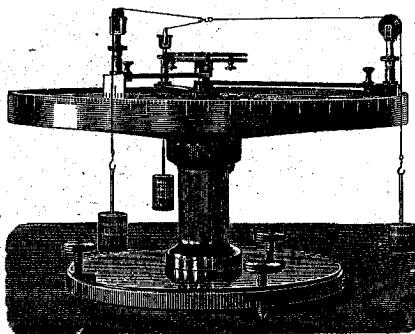
53 810 A. 1 : 7.



53 810 B. 1 : 7.



53 814 A. 1 : 5.



53 814 B. 1 : 6.

53,810. **Demonstration Goniometer** after Weinhold, small pattern, cf. Figures A and B

The Goniometer is used as No. 53,806. The height is 13 cm, diameter of circle 38 cm. The apparatus is divided in whole degrees.

Accessories as No. 53,806.

53,811. — *i d e m*, with a second graduation on brass, in half degrees, and with vernier reading, for subjective observations . . . . .

53,812. — the same apparatus as No. 53,810, but without telescopes, prism or box . . . . .

53,813. **Simple Goniometer** for students' use, after Noack (Noack, Leitfaden für Schülerübungen, p. 9), for use with accessories No. 53,815—53,817 and 51,8511; can be used as a Demonstration Goniometer for subjective and objective observation, as a Spectrum Apparatus and for various other optical experiments; as a Magnetometer, Galvanometer, and Tangent Galvanometer; for Demonstrating the Parallelogram of Forces, the Reflection of Impact and of Torsional Effects . . . . .

53,814. **Demonstration Goniometer** after Noack, Figures A and B (Ztschr. f. d. phys. u. chem. U. 3, 1889—90, pp. 1 and 57) . . . . .

The divided circle of zinc, with German silver edge, is very accurately graduated in half-degrees and permits of readings being made to 5 minutes with the aid of the vernier provided on the 3 alidades

f s. d.

14. 0. 0

16. 0. 0

11. 10. 0

6. 0. 0

15. 0. 0