APPLIANCES

PROJECTION SCOTOMETER*

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I have now used this apparatus for some 13 years, and I wish to confirm that it has definite advantages over the routine use of Traquair's disks on the black Bjerrum screen.

The apparatus was described by me in 1939, but during the war its manufacture was held up and it has only recently been put on the market again in an improved form.

The projection lamp throws a circular spot of light on to the grey flat screen, which is mapped out by grey threads into circles and radii of tangent values at one metre. The circular spots are variable from 0.5 to 30 mm. in diameter. The intensity of the stimulus can be varied by altering the illumination on the grey screen. Red and green colour filters are also available.

The advantages of this apparatus over Traquair's disks and holder lie in the ease, certainty, and rapidity with which it can be used:

- (i) There is no reflection from a metal holder of the disk, nor any visibility of surgeon's hand to distract the patient's attention.
- (ii) No pins are required on the screen to map out the scotoma which is later transcribed to a chart. The scotomata are marked directly on to a chart by the observer, as he reads from the grey screen. For this reason I prefer to have no auto-registration mechanism as this takes time for preliminary adjustment.

FIG. 1.—Optical "pistol" in its simplest form for holding in the hand ($\frac{1}{2}$ actual size). This model can also be used in perimetry, if a grey cloth covers the arc of the instrument.

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FIG. 2.—The patient is seated with his eyes at one metre from and opposite to the fixation centre of the screen. The model shown has auto-registration on to a chart, marked by a pricker from a foot pedal. In the simpler form, without auto-registration, the mapping is pencilled directly on to a chart held in the hand.

The simplest is a light hand model (Fig. 1), but there is some advantage in having the model on a stand, pivoting on a joint so that it is set at a convenient height (Fig. 2). With the stand, both the surgeon's hands are available for marking the charts.†

REFERENCE

JULER, F. A. (1939). *British Journal of Ophthalmology*, **23**, 239.

† Both these models and one with auto-registration can be supplied by C. Davis Keeler and Co., 39, Wigmore Street, London, W.1.