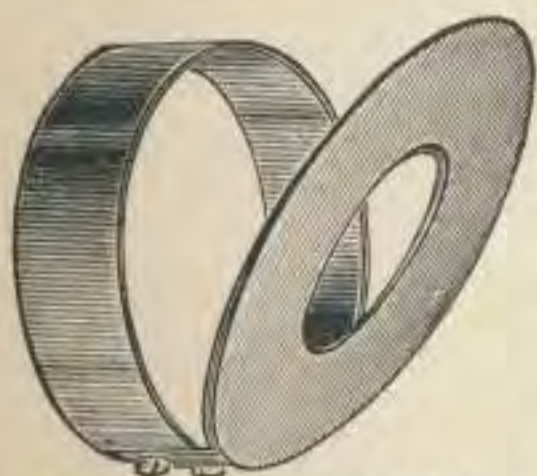


telescope is adjusted to the main telescope of the transit so that the lines of collimation of both are parallel and in the same plane, horizontal in No. 160 and vertical in No. 161; and in both the extra telescope swings over the outside of the transit plates. The diagonal prism is often used with the extra telescope for greater convenience in sighting.

Price of either Telescope, No. 160 or 161..... \$25.00



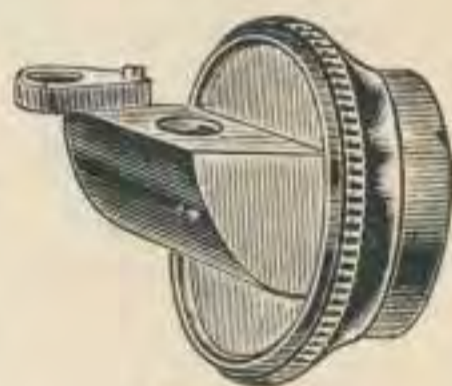
NOS. 165 AND 166
REFLECTOR

Prices, \$4.00 and \$5.00.

The reflector, Nos. 165 and 166, is an elliptical piece of silver, inclined at an angle of forty-five degrees with its ring, which is fitted to the objective end of the telescope. The opening in the reflector allows the use of the telescope, while a light held near the inner surface illuminates the cross-wires. (See page 275.)

The diagonal prism, No. 168, is used when it is necessary to observe greater vertical angles than can be taken with the ordinary telescope. It consists of a prism attached to the cap of the eyepiece, by which the object is presented to the eye when placed at right angles with the telescope. When the telescope is directed to the sun the slide or darkener containing colored glass is moved over the opening.

The circular plate to which the prism is attached is made to turn in the cap, so that, when it is substituted for the ordinary cap of the eyepiece, the opening of the prism can be easily adjusted to the position of the eye. Observations can be taken with the prism up to an angle of sixty degrees elevation.



No. 168
DIAGONAL PRISM
Price, \$8.00.