

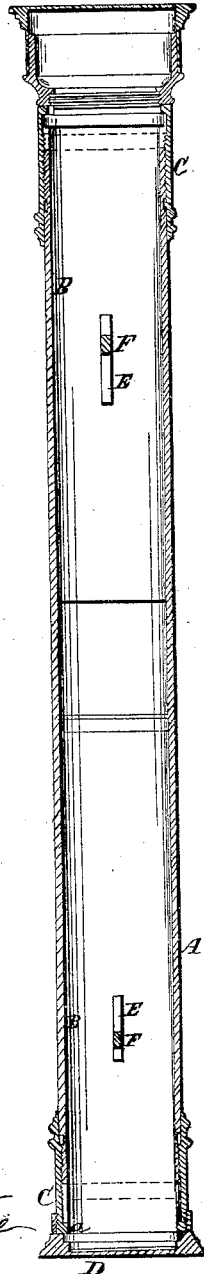
KUEBLER & SEELHORST.

Telescope.

No. 69,450.

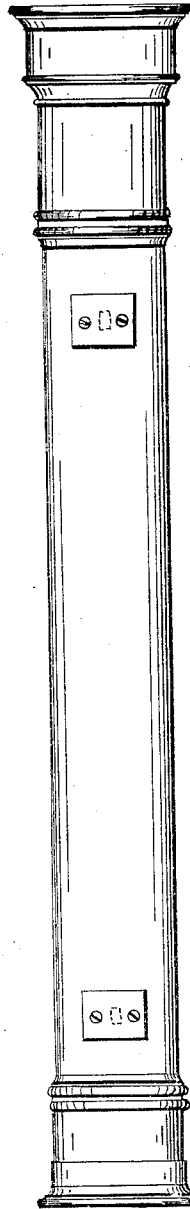
Patented Oct. 1, 1867.

*Fig. 1.*



*Witnesses*  
*Chas. Duval*  
*J. A. Service*

*Fig. 2.*



*Inventors.*  
*H. Kuebler*  
*J. Seelhorst*  
*Per [Signature]*  
*Attorneys*

# United States Patent Office.

WILLIAM KUEBLER AND F. SEELHORST, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 69,450, dated October 1, 1867.

## IMPROVEMENT IN TELESCOPES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that we, WILLIAM KUEBLER and F. SEELHORST, of Philadelphia, in the county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Telescopes; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved method for adjusting the eye-pieces and object-glasses of telescopes; and the invention consists in providing an adjusting-ring, which also serves as a protecting-ring, whereby the proper adjustment is made, without using the ordinary rack and pinion, while the slide is protected from injury from dust, dirt, or water, as will be more fully hereinafter described.

Figure 1 represents a longitudinal central section of a telescope constructed according to our improved method.

Figure 2 is an outside view.

Similar letters of reference indicate like parts.

A is the outside tube or casing of the telescope. B is the slide or inside tube. C is the adjusting-ring. E is a slot-hole through the slide B. F is a pin or lug, (which is fast to the outer tube A,) which rests in the slot and prevents the slide from turning, and also acts as a stop. The adjusting-ring C is operated by a screw-thread on the tube A, and the slide B is attached to the ring at its outer end, as seen at *a*. The cap D screws on to the adjusting-ring. It will be seen that the slide is moved out and in by simply turning the ring. The object-glass is adjusted in the same manner. Each slide is moved either from or towards the centre by turning the adjusting-ring C. By this arrangement the slide is not exposed to dust, dirt, or wet, and the old inconvenient rack and pinion is dispensed with, thus giving greater security to the instrument, and affording an easier and more perfect method of adjustment.

What we claim as new, and desire to secure by Letters Patent, is—

The adjusting-ring C, when applied to telescopes, and to all optical instruments of a similar nature, substantially as and for the purposes herein shown and described.

WM. KUEBLER,  
F. SEELHORST.

Witnesses:

JOSEPH RAKNER,  
PETER HAY.