

W. S. STOCKWELL.  
TELESCOPE.  
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926,833.

Patented July 6, 1909.

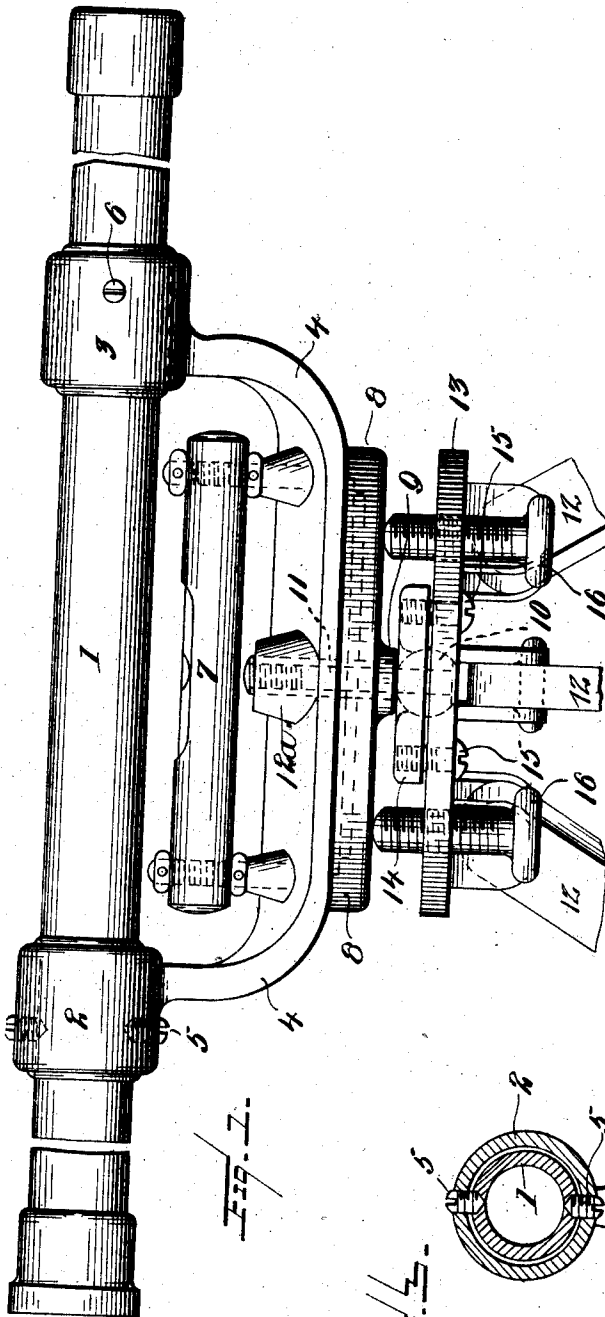


Fig. 1.

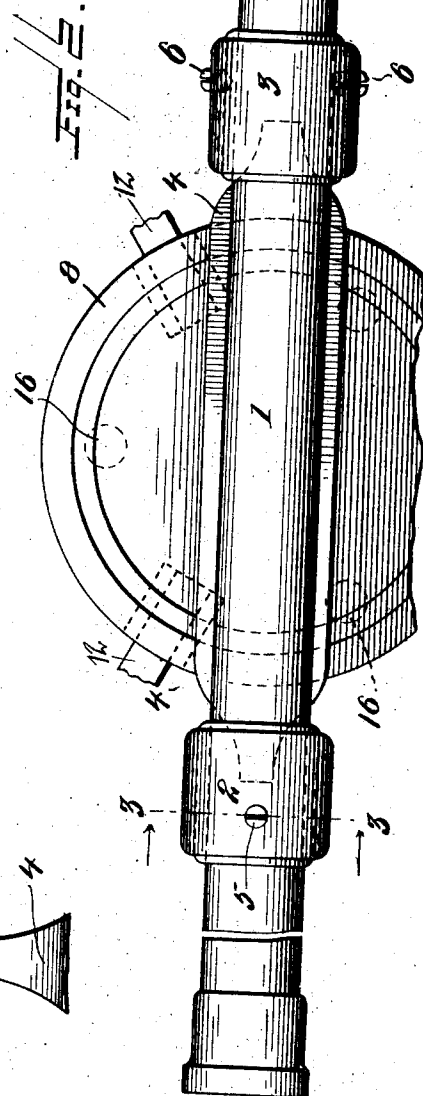


Fig. 2.

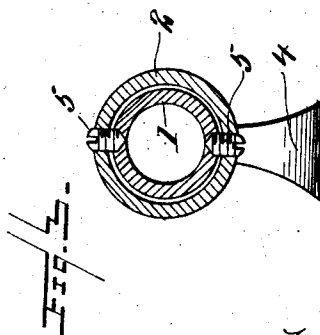


Fig. 3.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

WINFIELD S. STOCKWELL, OF ATHOL, MASSACHUSETTS.

## TELESCOPE.

No. 926,833.

Specification of Letters Patent.

Patented July 6, 1909.

Application filed February 27, 1907. Serial No. 359,656.

*To all whom it may concern:*

Be it known that I, WINFIELD S. STOCKWELL, a citizen of the United States, residing at Athol, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Telescopes, of which the following is a specification.

My invention relates to a telescope, surveyor's sight tube or similar instrument, universally adjustably mounted on its stand or tripod to facilitate the leveling of the same and providing in combination therewith novel means for adjusting the instrument vertically and horizontally within said mounting.

My invention resides particularly in the following features of construction and arrangement hereinafter described with reference to the accompanying drawings, in which—

Figure 1 is a side elevation of my improvements, Fig. 2 is a plan view thereof, and Fig. 3 is a section on the line 3—3 of Fig. 2 looking in the direction of the arrows.

Referring to the figures 1 represents a sighting tube 1 mounted through the supporting collars 2 and 3 carried on the ends of the yoke frame 4. The collars 2 and 3 are constructed of greater diameter than the sight tube 1 in order to allow of adjustment within themselves of said tube; collar 2 being provided with alined threaded openings in a vertical plane for the reception of the adjusting screws 5 having conical points fitting into depressions or concavities in the tube 1, and collar 3 being provided with similar alined threaded openings in a horizontal plane for the reception of adjusting screws 6, operating on the sight tube 1 in a similar manner as the adjusting screws 5. Thus it will be seen that said tube 1 may be adjusted vertically or horizontally as desired by the use of the screws 5 and 6 arranged in the collars 2 and 3 respectively of the yoke frame.

The yoke frame 4 supports upon its upper face, a level 7, and is mounted in turn upon a circular plate 8 having a centrally located boss 9 on its lower face. A ball 10 is mounted

on a stem 11 extending centrally through said boss 9 and plate 8 and through the yoke frame 4. A nut 12<sup>a</sup> is suitably connected on the upper portion of the stem 11 forming holding means for the yoke frame 4. The tripod or stand comprises legs 12 of the ordinary type mounted beneath the stationary plate 13. As shown in Fig. 1 the ball 10 is seated in a socket formed by a concavity in the plate 13 and a concavity arranged in a plate 14 adjustably connected to said plate 13 by means of screws 15. Thus the yoke frame carrying the sight tube may be swung or adjusted to a level position by means of adjusting thumb screws 16 mounted through the stationary plate 13 and bearing upwardly against the plate 8 to adjust said frame to a level position as read from the spirit level 7. Thus it will be seen that I provide an improved device in which every adjustment is provided for and in which a novel, simple and inexpensive construction is employed to this end.

Having thus fully described my invention, what I claim is:

A device of the character described, comprising a suitably supported yoke frame provided with relatively large integral cylindrical collars at the extremities thereof, one of said collars being provided with diametrically arranged screw-threaded apertures in a substantially vertical plane, and the other of said collars being provided with diametrically arranged screw-threaded apertures in a substantially horizontal plane, set screws operating through said apertures upon each of said collars, a sight tube provided with recesses upon the periphery thereof adjustably mounted through each of said cylindrical collars and upon said set screws therein, said set screws working within said apertures upon the periphery of said sight tube, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WINFIELD S. STOCKWELL.

Witnesses:

C. EUGENE TANDY,  
CHAS. E. INGALLS.