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L. W. SHASTOCK

2,051,969

AUTOMATIC TUBE ADJUSTER FOR TELESCOPING TUBES

Filed Jan. 16, 1935

Fig. 1.

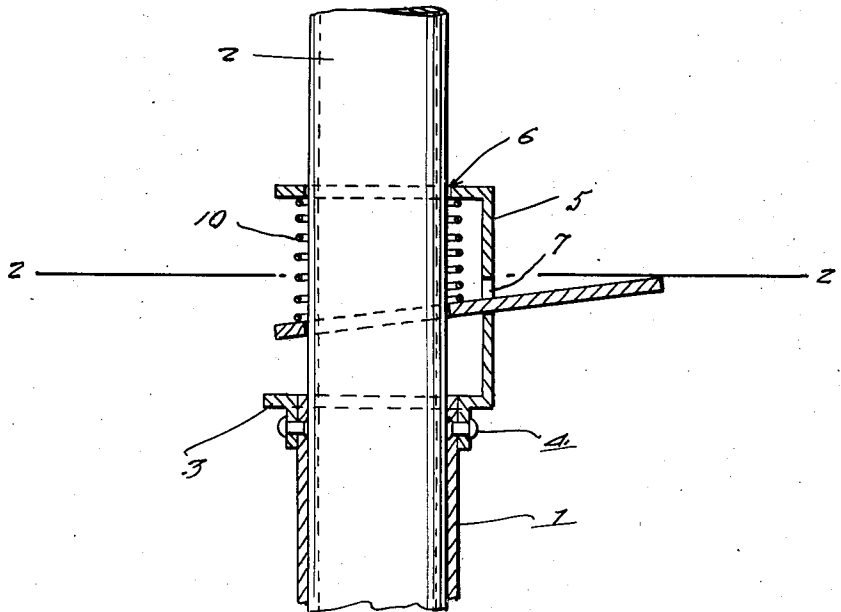


Fig. 2.

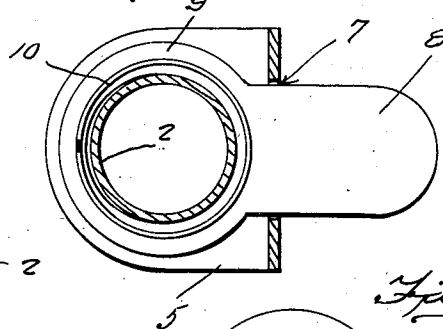


Fig. 3.

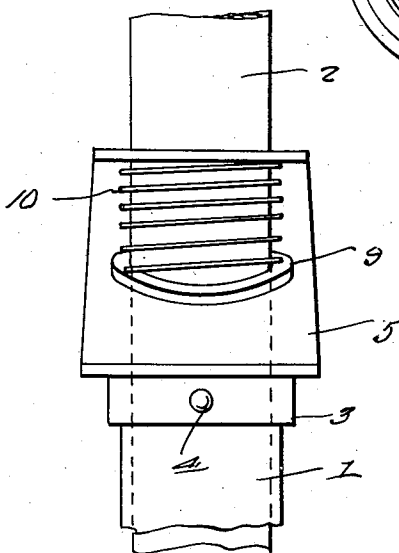
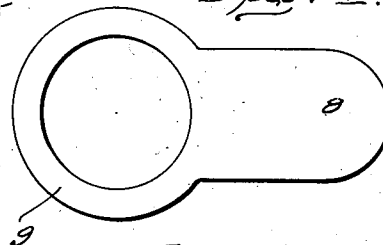


Fig. 4.



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AUTOMATIC TUBE ADJUSTER FOR
TELESCOPING TUBES

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Refiled for abandoned application Serial No.
692,349, October 5, 1933. This application Jan-
uary 16, 1935, Serial No. 2,129

1 Claim. (Cl. 287—58)

This invention relates to a tube adjuster for a tube which telescopes into another tube, the general object of the invention being to provide means for locking the telescopic tube in any desired position, which means whereby the locking means can be readily released to permit adjustment of the tube. This application is a substitute for abandoned application Serial No. 692,349, filed Oct. 5, 1933.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claim.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a longitudinal sectional view of the invention.

Figure 2 is a section on line 2—2 of Fig. 1.

Figure 3 is a front view.

Figure 4 is a view of the locking lever.

In this drawing, the numeral 1 indicates the stationary tube and the numeral 2 the movable tube which telescopes into the tube 1. A flanged collar 3 is fastened to the upper end of the tube 1, as shown at 4, and an angle-shaped bracket 5 has a vertical limb extending upwardly from the flange of this collar, with its horizontal limb provided with an opening 6 through which the tube 2 loosely passes. The vertical limb is formed with a slot 7 through which passes the handle part 8 of a lever which is formed with a ring 9 through which the tube 2 loosely passes. A coiled spring 10 surrounds a part of the tube 2 and has its upper end bearing against the horizontal limb of the bracket and its lower end against the ring-shaped part 9 of the lever.

Thus, it will be seen that when the lever has been moved by hand to a horizontal position, the tube 2 can be adjusted in the tube 1 and when the lever has been pressed to the position shown in Figure 1 by the spring 10, the tube 2 is locked

against downward movement, though it can be pulled upwardly. By placing the spring under the ring part of the lever, the action is reversed, so that the tube 2 cannot be pulled upwardly until the lever has been moved to a horizontal position, but it can be pushed downwardly.

Thus, it will be seen that I have provided simple means for holding the tube 2 at various heights.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

I claim:

In combination, with a pair of telescopic members, the lower one of which is of tubular form for receiving a part of the other member, a substantially U-shaped bracket for providing upper and lower horizontal parts and a vertical part connecting the horizontal parts together, the lower horizontal part having an opening therein, a depending flange on the lower horizontal part surrounding the opening and receiving the upper end of the lower telescopic member, means for fastening said flange to the member, the upper horizontal part having an opening therein through which the upper member passes, said vertical part of the bracket having a transverse slot in its middle portion, a lever including a handle portion and a ring shaped portion, the handle portion passing through the slot and the ring-shaped portion encircling a part of the upper member, and a spring encircling a portion of the upper member and having one end bearing against the ring-shaped part of the lever and its other end against the upper horizontal portion of the bracket to hold the lever in a position for locking the upper member against movement in one direction.

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