No. 674,071. Patented May 14, 1901.

P. O. ANDERSON.

TRANSOM ADJUSTER.

(Application filed Jan. 26, 1901.)

(No Model.)

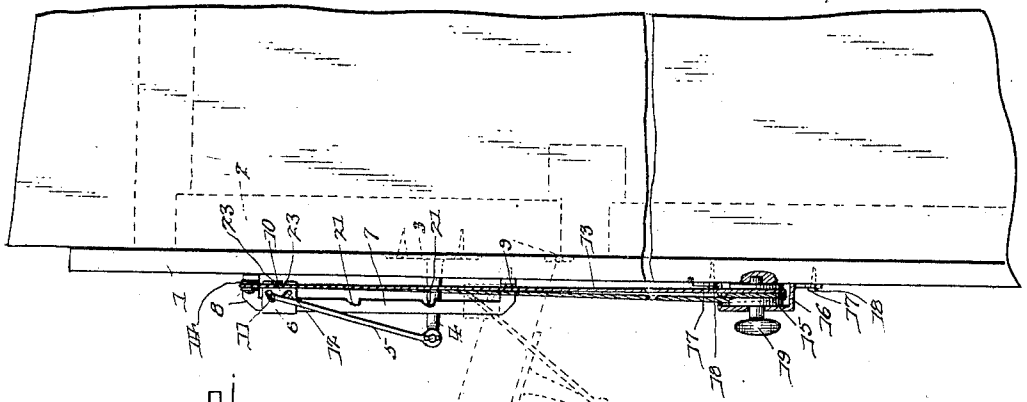


Fig. 2.

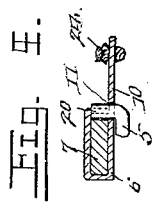


Fig. 4.

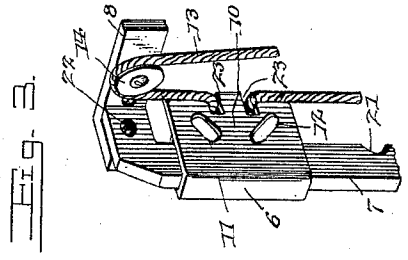


Fig. 3.

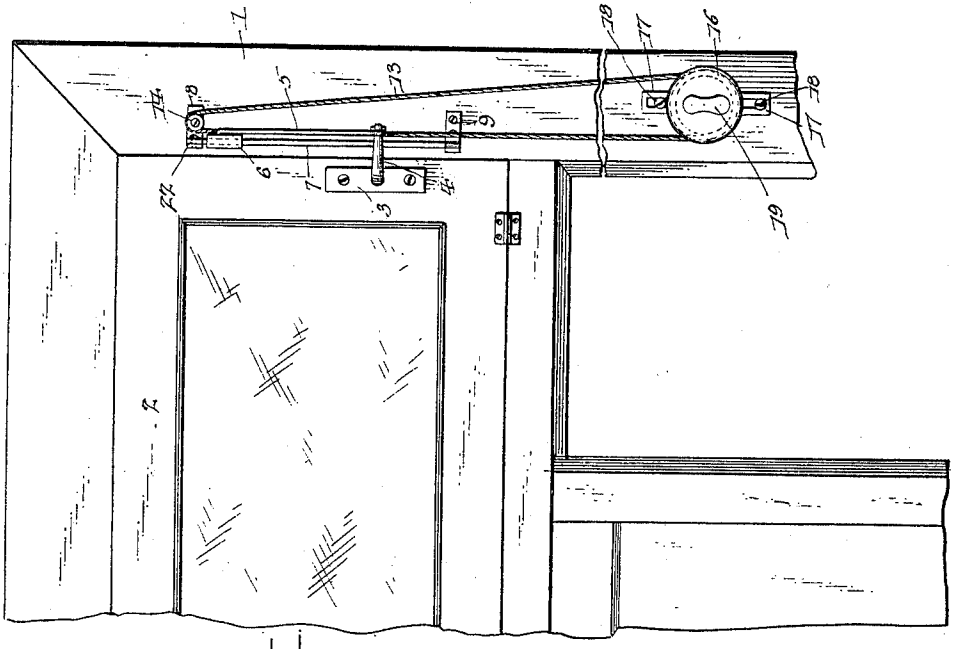


Fig. 1.

Witnesses
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UNITED STATES PATENT OFFICE.

PHILIP O. ANDERSON, OF BOULDER, COLORADO.

TRANSOM-ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 674,071, dated May 14, 1901.

Application filed January 26, 1901. Serial No. 44,929. (No model.)

To all whom it may concern:

Be it known that I, PHILIP O. ANDERSON, a citizen of the United States, residing at Boulder, in the county of Boulder and State of Colorado, have invented a new and useful Transom-Adjuster, of which the following is a specification.

This invention relates to means for adjusting transoms and the like, and has for its object to provide an improved apparatus of this character for convenient application to transoms already in position without requiring any change therein and arranged for convenient manipulation to quickly open and close the transom.

With this and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a front elevation of the improved apparatus applied to a transom. Fig. 2 is a side elevation thereof. Fig. 3 is a detail perspective view of the operating-slide and the guide therefor. Fig. 4 is a detail transverse sectional view taken through the slide and the guide therefor.

Like characters of reference designate corresponding parts in all of the figures of the drawings.

Referring to the drawings, 1 designates a portion of a door-frame, and 2 a transom, which is hinged at its lower edge. Adjacent to one end of the transom there is provided a bracket or plate 3, having a substantially L-shaped stem 4 projected therefrom and extending outwardly beyond the adjacent end of the transom, so as to overlap the adjacent portion of the door-frame. A link or rod 5 has one end pivotally connected to the outer extremity of the L-shaped stem and its opposite end pivotally connected to a vertically-movable slide 6, which is arranged for manual operation to swing the link or rod, and thereby swing or tilt the transom upon its pivotal or hinged axis.

For the mounting of the slide there is provided a vertical rod or bar 7, which is angular in cross-section and has opposite terminal and lateral feet or attaching-brackets 8 and 9 for mounting the rod upon the door-frame and also for spacing the rod outwardly therefrom. The slide 6 is tubular in shape to slidably embrace the guide-rod and is limited in its slidable movement by the terminal brackets. A longitudinal flange 10 projects inwardly from the inner edge of the slide and terminates short of the door-frame, so as not to bind thereon. In the flange are the opposite slots 11 and 12, which intersect the inner edge of the tubular slide, and said inner edge is provided with transverse slots communicating with the inner ends of the respective diagonal slots of the flange.

To the upper end of the flange on the slide there is connected one end of a cord 13, which passes upwardly and over a grooved pulley 14, which is mounted upon the upper bracket 8 or the door-frame, and thence downwardly and around a drum or pulley 15, mounted upon the door-frame and in convenient reach from the floor, the opposite end of the cord being connected to the lower end of the flange of the slide, so that by turning the drum or lower pulley the slide may be moved in opposite directions upon the guide-rod to swing the link 5, and thereby adjustably tilt the transom, as indicated in dotted lines in Fig. 2 of the drawings.

The lower pulley is mounted within a suitable casing 16, which has openings for the reception of the opposite portions of the cord and is also provided with top and bottom slotted attaching ears or straps 17 for the reception of the fastenings 18, whereby the pulley may be adjusted vertically to tighten the cord should it become slack by wear. A suitable finger-piece 19 projects outwardly from the pulley and through the casing for the convenient manipulation of the drum.

In order that the transom may be held at several adjustably-tilted positions, the link 5 is provided at its upper end with a lateral pin or stud 20, (best shown in Fig. 4 of the drawings,) which is hooked laterally inward through the upper diagonal slot of the slide and is designed to take into the respective notches 21 in the back of the guide-rod. It

will now be apparent that the transverse slots in the back of the slide are designed to expose the notches, so that the lateral pin may drop into the same.

In order that the device may be applicable to either side of the transom-frame, the terminal attaching-brackets for the rod or bar 7 have been made detachable by means of a removable fastening 22 for each bracket, whereby said brackets may be disposed upon the opposite side of the bar or rod. Moreover, the brackets are removable, so that the slide 6 may be removed from the rod and then inverted, so as to bring the flange 10 upon the outer side of the rod, there being two slots 11 and 12 in the flange, so that one of the slots, preferably the upper one, may be disposed at an inward and downward inclination for the reception of the pin or stud 20 of the link 5 and to direct the same into the respective notches in the back of the guide-rod 7. Moreover, the back edge of the flange 10 is provided with a pair of notches or lateral slots 23 for the reception of the respective ends of the cord 13, each end of the latter having a button or stop 24 (shown in Fig. 5) to lie across the inner side of the slot, and thereby detachably connect the cord to the slide, the ends being interchangeable with the slots in the inverted positions of the slide.

What is claimed is—

1. In an apparatus for adjusting transoms and the like, the combination of a bracket for attachment to a transom, a guide for application to a support, a slide mounted upon the guide, a link having its opposite ends connected to the bracket and the slide, and also having a plurality of adjustably interlocked engagements with the guide, and means for moving the slide in opposite directions upon the guide.

2. In an apparatus of the character described, the combination of a bracket for application to a transom, a guide-rod for application to a support and having teeth or notches, a link having one end pivotally connected to the bracket, and its opposite end having a terminal lateral pin or stud, a slide mounted upon the guide-rod and having an opening for the reception of the lateral pin or stud of the link, said stud or pin being arranged to coöperate with the teeth or notches of the guide-rod, and means for moving the slide in opposite directions.

3. In an apparatus of the character described, the combination of a bracket for application to a transom, a guide-rod for application to a support and having a plurality of notches, a slide mounted upon the rod and having a longitudinal flange projected at the notched side of the rod, the flange having an opening therein, and that side of the slide which embraces the notched portion of the rod having a transverse opening intersecting the inner end of the opening in the flange, a link having one end pivoted to the bracket, and its opposite end provided with a lateral pin or stud which is inserted through the opening in the flange and lies in the opening in the side of the slide to coöperate with the notches of the rod, and means for moving the slide in opposite directions upon the rod.

4. In an apparatus of the character described, the combination of a bracket for application to a transom, a guide-rod having opposite terminal and lateral attaching-feet for application to a support, the back or inner edge of the rod being notched, a tubular slide embracing the rod, and having a longitudinal slide projected at the back edge of the rod, and provided with a downwardly and outwardly inclined slot extending to the back of the slide, the latter having a transverse slot to expose the notches of the rod and intersecting the outer end of the inclined slot, a link having one end pivoted to the bracket, and its opposite end provided with a lateral stud or pin, which is inserted through the slot in the flange and lies in the transverse slot in the back of the slide and in frictional engagement with the notched back of the guide-rod, and means for moving the slide in opposite directions upon the rod.

5. In an apparatus of the character described, the combination of a bracket for application to a transom, a guide for application to a support, a slide mounted upon the guide, a link connecting the bracket to the slide, opposite pulleys, and a cord having its opposite ends connected to the respective ends of the slide and its intermediate portion passing around the pulleys, one of the latter forming an operating device, and having a bracket or casing, which is provided with opposite slotted ears, adjustable fastenings for the slotted ears, and a finger-piece or handle for the pulley.

6. In an apparatus of the character described, the combination of a bracket for application to a transom, a guide-rod for application to a support, and having notches in its back edge, detachable and reversible attaching-brackets at the opposite ends of the bar or rod, a detachable and invertible slide mounted upon the rod and having a pair of transverse openings in its back to expose the notches in the rod, and a rearwardly-extending longitudinal flange, having an upper inwardly and downwardly inclined slot communicating with the upper opening, and a lower inwardly and upwardly inclined slot communicating with the lower opening, a link pivotally connected to the bracket, and having a terminal lateral pin received within the upper slot of the flange of the slide and coöperating with the notches in the back of the guide-rod.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

PHILIP O. ANDERSON.

Witnesses:
F. W. KOHLER, Jr.,
GEO. H. PARKER.