April 21, 1925.

1,534,758

B. E. BARTHOLOMEW

CASEMENT WINDOW ADJUSTER

Filed Aug. 11, 1923

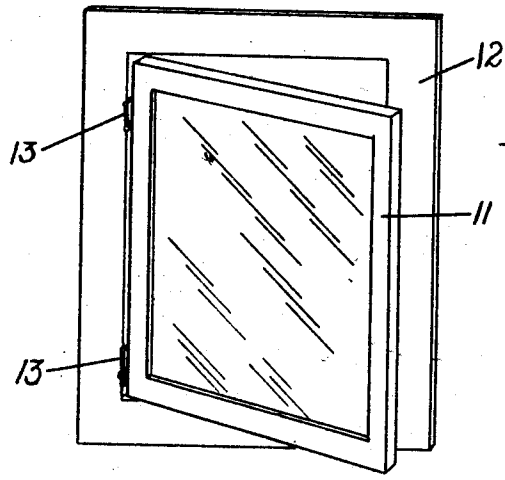


Fig. 1.

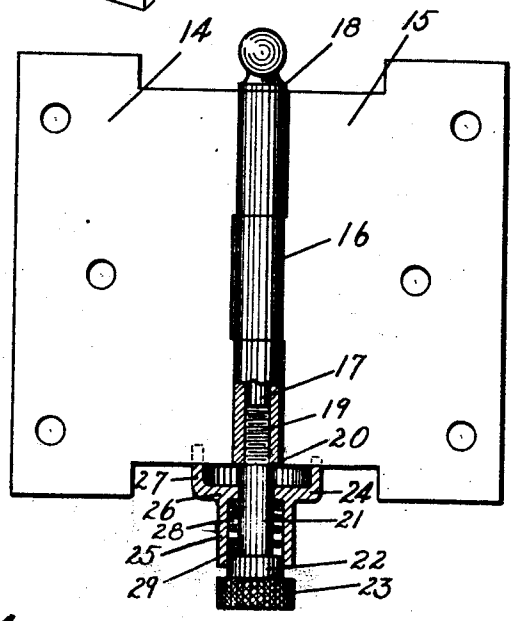


Fig. 2.

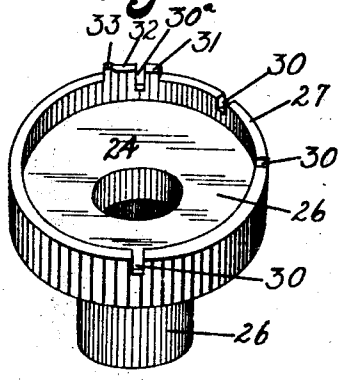


Fig. 3.

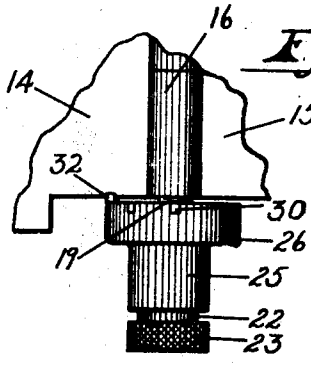


Fig. 4.

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Patented Apr. 21, 1925. 1,534,758

UNITED STATES PATENT OFFICE.

BERT E. BARTHOLOMEW, OF PASADENA, CALIFORNIA, ASSIGNOR OF ONE-HALF TO LOUIS SANDS, OF CLEVELAND, OHIO.

CASEMENT-WINDOW ADJUSTER.

Application filed August 11, 1923. Serial No. 656,931.

To all whom it may concern:

Be it known that I, BERT E. BARTHOLOMEW, a citizen of the United States, residing at Pasadena, in the county of Los Angeles and State of California, have invented new and useful Improvements in Casement-Window Adjusters, of which the following is a specification.

This invention relates to hinge window or door adjusters.

A purpose of this invention is to provide a means for holding a door or window open in a desired position, said means to be applied on one of the supporting hinges.

Another object is to provide a means for adjusting the opening of a door or hinged window which may be readily engaged or disengaged as desired.

With the foregoing and other objects in view, this invention consists of the features of construction and combination and arrangement of parts hereinafter more fully described and claimed, reference being made to the accompanying drawings, in which

Fig. 1 is a view of a window casing having its window held partly open by means of the hinge adjuster applied on one of its hinges.

Fig. 2 is a vertical section of the hinge adjuster as applied to a hinge.

Fig. 3 is a perspective of the engaging part of the adjuster.

Fig. 4 is a view in side elevation in which the adjuster is disengaged.

Referring to the drawings in which similar reference characters refer to similar parts, a window 11 is hung in a window casing 12 by means of hinges 13, one of which has mounted thereon the hinge adjuster. It will be understood that the adjuster may be suitably mounted on any hinge but is more suitably adapted for a butt hinge having leaves 14 and 15, the leaf 14 being mounted on a casing and the leaf 15 upon the window. These leaves are provided with cylindrical portions 16 through which is passed a pin 17, the upper portion of which is provided with a shoulder 18 resting on the uppermost cylindrical portion 16. It will be noted that the leaf having the bottom-most cylindrical portion is that leaf which is attached to the casing. This bottom-most cylindrical portion is interiorly threaded to receive a screw 19 having a shoulder 20 formed by the downwardly extending shank 21 which is provided with an enlarged portion 22 having a knurled head 23. The engaging member 24 is provided with a hollow hub 25, the lower edge of which fits over the enlarged portion 22 of the pin 21. A top 26 is provided which fits around the pin 21 and has an upturned rim 27. The hub 25 with its top 26 and the enlarged portion 22 encloses a chamber 28 in which is compressed a coil spring 29 which urges the engaging member 24 towards the bottom edges of the leaves 14 and 15.

As clearly shown in Fig. 3, the upturned rim 27 of the engaging member 24 is provided with recesses 30, one of which, as at 30^a, has upwardly extending projections 31 and 32, the projection 32 being provided with a shoulder 33.

The operation of this device is as follows: Normally the recess 30^a receives the leaf 14 which is attached to the casing. The leaf 15 may slide over the edge of the rim 27 and will hold the window locked when received by one of the recesses 30. To disengage the leaf 15 the member 24 is forced down against the spring 29, the downward movement of the member 24 being limited by the knurled head 23, the leaf 14 still being received in recess 30^a between the lugs 31 and 32 and thus preventing rotation of the fastening member 24.

In case it is desired to completely disengage the member 24, as shown in Fig. 4, the knurled head 23 is lowered by giving it a turn, unscrewing the screw 19. In this lowered position the engaging member 24 may be lowered the required distance to allow the leaf 14 to clear the projections and rest upon the lug 32 when the member 24 is turned; the shoulder 33 being provided to limit its movement. This therefore entirely disengages the sash leaf 15 from the lock and permits it to swing.

It will be understood that any number of recesses 30 may be provided which are capable of holding the window at any desired opening, the preferable number being three, holding the window at quarter, half and full openings. It is seen that an adjuster is provided which will hold a window or door open against the effects of draft by holding one of the hinges locked in position; also provision is made for easily and quickly changing the amount of opening or com-

pletely disengaging the whole device. It is understood that changes may be made in the details of construction without departure from the spirit of my invention.

What I claim is:

1. A means for locking one of the leaves of a hinge in adjusted position including a resilient fastening member having notches which engage the contiguous edge of the swinging hinge leaf.

2. A hinge adjuster comprising a circular slotted member urged toward the hinge by a spring, said member being slidably mounted about a shank fastened to the hinge, the slots receiving the adjacent edges of the hinge leaves.

3. In a hinge adjuster, a recessed engaging member having one of its recesses provided with projections which engage and are held by the stationary hinge leaf while the movable leaf is being adjusted.

4. In a hinge adjuster, a recessed engaging member having one of its recesses provided with projections on one of which the edge of the stationary hinge may rest disengaging said member and allowing the swinging leaf to move without interruption.

5. A means for fastening a swinging hinge member in different positions, said means including a pin adapted to be secured to a part of the hinge structure, and a fastening element slidably and yieldingly mounted on a pin and having a part to interlock with the stationary part of the hinge, said element having notches to selectively engage with the swinging part of the hinge.

6. A means for fastening a swinging hinge member in different positions including a notched engaging member mounted so as to take axial movement upon a pin adjustably fastened to the hinge, the movement being limited between the hinge and a shoulder upon said pin.

7. A hinge adjuster comprising a pin adapted to be secured to a hinge in alignment with the pin of the hinge, an engaging element slideably mounted upon said pin and urged into engagement with the leaves of said hinge, a recess formed upon said engaging element adapted to interlock with one of said leaves, and notches formed upon said engaging element adapted to be selectively engaged by the other leaf of said hinge.

8. A hinge adjuster comprising an engaging element slideable axially with respect to the pin of a hinge, a spring housed within said engaging element and adapted to urge said element into engagement with the leaves of said hinge, an upturned rim formed upon said engaging element, and recesses formed in said upturned rim and adapted to receive said leaves.

9. A hinge adjuster comprising a screw adapted to be secured to a hinge, an engaging element slideable upon said screw, an upturned rim formed upon said engaging element and recesses formed in said upturned rim adapted to receive the leaves of said hinge.

10. A hinge adjuster comprising a screw adapted to be secured to a hinge, an engaging element slideable upon said screw, an upturned rim formed upon said engaging element and recesses formed in said upturned rim adapted to receive the leaves of said hinge, and projections formed upon said upturned rim adjacent one of said recesses as and for the purpose described.

11. A hinge adjuster comprising a screw adapted to be secured to a hinge, an engaging element slideable upon said screw, an upturned rim formed upon said engaging element and recesses formed in said upturned rim adapted to receive the leaves of said hinge, and spring means for resiliently urging said engaging element into contact with the leaves of said hinge.

12. A hinge adjuster comprising a screw adapted to be secured to a hinge, an engaging element slideable upon said screw, an upturned rim formed upon said engaging element and recesses formed in said upturned rim adapted to receive the leaves of said hinge, said screw being adjustable with respect to said hinge as and for the purpose described.

In testimony whereof I have signed my name to this specification.

BERT E. BARTHOLOMEW.