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TOGGLE LOCK DEVICE FOR JALOUSIES

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Fig. 1

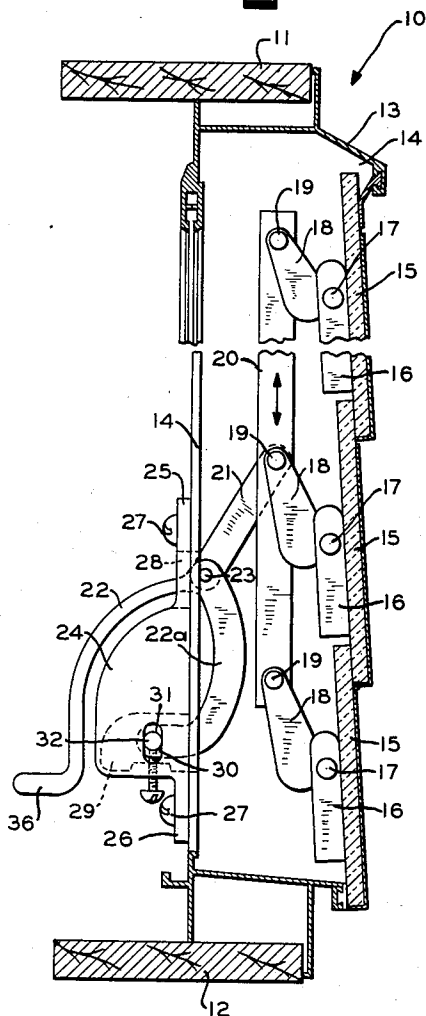


Fig. 2

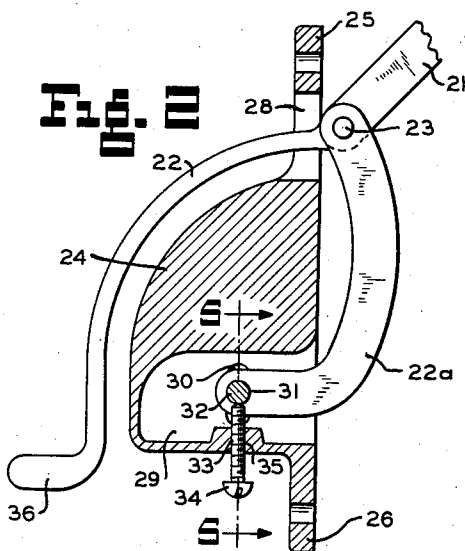


Fig. 3

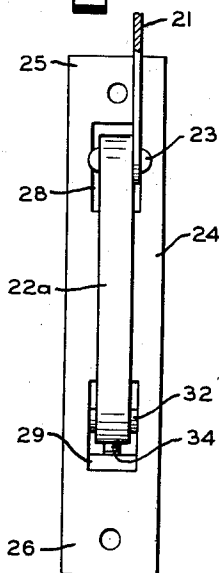
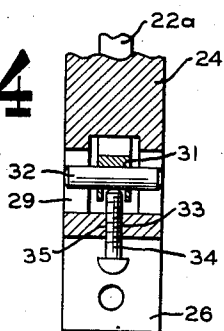


Fig. 4



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TOGGLE LOCK DEVICE FOR JALOUSIES

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4 Claims. (Cl. 20—62)

This invention relates to a locking device for window frame construction and more particularly to a locking device for jalousies and the like types of window and door construction.

In the types of jalousies heretofore used, it is to be noted that there is provided an operating leverage mechanism for opening and shutting the louvres constituting the jalousy. Such operating mechanism is usually and preferably disposed at one side only of the jalousy frame and at the lower portion thereof. It has been noted, however, that said operating mechanism does not close the window panes or louvres tightly on the side opposite the mechanism. In fact there usually is, at the end of the louvres or panes away from the operating mechanism, a space between such louvres or panes when closed thus permitting air, wind and rain to come through such space because of the uneven locking of the louvres.

With the above disadvantages in view, it is an object of my invention to provide a fool-proof locking mechanism in a window or door frame construction to effect tight closing of the louvres or panes at the portion away from the operating mechanism.

Another object of the present invention is to provide a locking device for installation on the side of a jalousy frame to act as an auxiliary to the regularly used types of operating mechanisms so as to effectively close the louvres or panes of the jalousy and form a uniform seal at the contacting portions of the louvres or panes.

Still another object of the present invention is to provide an adjustable, regulatable auxiliary locking device adapted to uniformly close or lock the louvres or panes in unison thus forming a seal contact between the adjoining louvres or panes when in closed position.

A more specific object of my invention is to provide a manually operable, easily installable, adjustable locking mechanism for easy connecting with an operating bar of a jalousy frame for effectively closing the ends of the jalousy panes and form a tight seal thereat.

Other objects and features of the invention will become apparent from the following detailed description taken in conjunction with the accompanying drawings, wherein:

Fig. 1 is a broken away side sectional view of a jalousy frame construction embodying a preferred form of my invention;

Fig. 2 is an enlarged detailed view of my preferred embodiment as used in connection with jalousies and the like;

Fig. 3 is an end view of the invention as shown in Fig. 2; and

Fig. 4 is a sectional view taken on line 5—5 of Fig. 2. Referring now specifically to the drawings wherein like numbers refer to like parts throughout, it will be noted that there is provided the usual type of jalousy frame construction 10 containing the usual top and bottom members 11 and 12, respectively, and the frame piece 13 mounted on said members. It is to be noted that such jalousy may be for a window or door type of construction. In said frame piece 13, there are provided jambs 14 one

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on each side of the piece for accommodating individual louvres or jalousy panes 15 mounted in suitable retaining members 16 at each end thereof, which retaining members are pivoted to the jamb 14 by means of pin members 17.

5 Extending at an angle from said retaining members are arms 18 which in turn are pivotally connected at 19 to an operating arm 20 which in turn extends parallel to the major length of the jamb 14.

Said operating arm 20 it will be noted from Fig. 1 of the drawing is connected preferably at its lower portion to a rod 21 which extends downwardly to a manually operable arcuate shaped adjustable locking member 22, said rod 21 being pivoted to said lock member by means of a pin 23.

15 A housing 24 is provided for accommodating said lock member 22. Said housing 24 is provided with top and bottom extending portions 25 and 26, respectively, and is connected to said jamb 14 at said extensions by means of bolt or screw members 27. It is to be noted that said housing has at its upper extension a slot or groove 28 to permit freedom of movement of said lock member 22. Furthermore, there is also provided at the bottom of said housing an opening or space 29 and a vertical slot 30 on the side walls of the housing for accommodating one end of the extension balancing arm 22a of said locking arm 22. Said extension balancing arm 22a is preferably an individual member and is pivoted to locking member 22 and has at its lower terminal portion an opening 31 for accommodating a cross pin 32 extending crosswise through the space 30 and forms contact with the housing 24. At the lower portion of said housing, it will be noted, that there is an opening 33 for accommodating an adjusting screw member 34 extending upwardly into the housing via the threaded opening 35 so as to permit lateral or vertical adjustment of said locking member 22 and its extension arm 22a.

In operation when the operating mechanism not shown but usually disposed to the right of the jalousy frame is operated to close the jalousy panes or louvres the operating bar or arm for the jalousies disposed on the right of the jamb brings the jalousy panes or louvres in the closed position as shown in Fig. 1. However, the left side of said panes not closing tightly leave a slight space between the contacting portions of the louvres or panes. By depressing handle 36 of the locking bar 22, the operating bar 20 on the left side of the jamb as shown in Fig. 1 is brought downwardly thus forming a tight fit between the contacting portions of the louvres or panes 15.

While a preferred embodiment of the invention has been illustrated and disclosed herein, it is to be understood that various modifications as to form, arrangement of parts and use of materials may be made without departing from the spirit and scope of the invention as claimed herein.

55 I claim:

1. In a jalousy frame having top and bottom members and side jambs constituting a frame for accommodating said louvres, retaining members for the louvres pivoted to the jamb, and a vertically movable operating arm for the louvres, a locking device comprising a housing, a manually operable arm extending thru the housing and being pivotally connected to the vertically movable operating arm for the louvres, another arm pivoted to the operable arm to support the pivotal movement of the operable arm when actuating said vertically movable operating arm, and means in the housing for adjusting the vertical and lateral movement of the operable arm.

2. A locking device according to claim 1 in which there is provided a housing in which the manually operable arm has a curved portion extending thru the housing and has an outwardly extending terminal portion, outside the housing to permit raising and lowering of the same, and

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the other arm is curved to permit wide arcuate movement of the operable arm.

3. An auxiliary locking device for operating a movable member for louvres for tightly closing louvre panes and the like in a jealousy construction, comprising a housing attachable to one of the jambs of the jealousy construction, said housing having an upper and a lower opening therein, a movable elevating and depressing arm extending thru the upper opening of the housing pivotally connected at one end to the operable member for the louvres, a second arm member pivotally connected to the movable arm, said second arm being connected intermediate the ends of said movable arm, means at the lower opening of the second arm member for pivotally retaining said mem-

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ber, and means at said lower opening for adjusting the pivoting of said second member in the housing.

4. A device according to claim 3 wherein the lower opening of the housing has a vertical slot to permit the raising and lowering of pivotal portion of the second arm.

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