

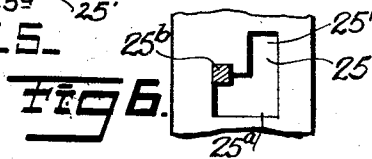
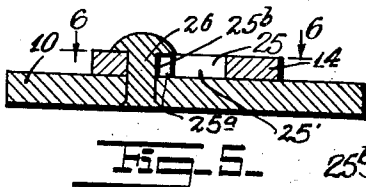
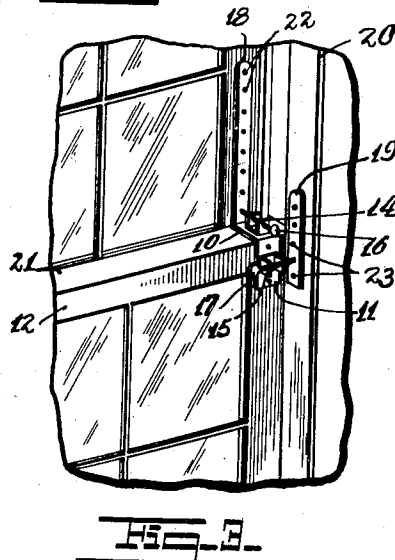
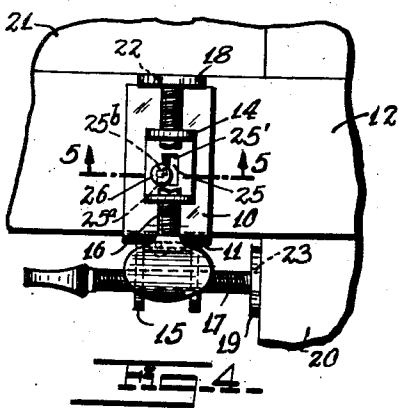
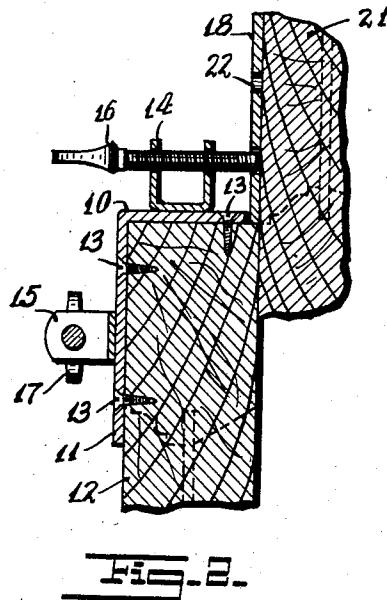
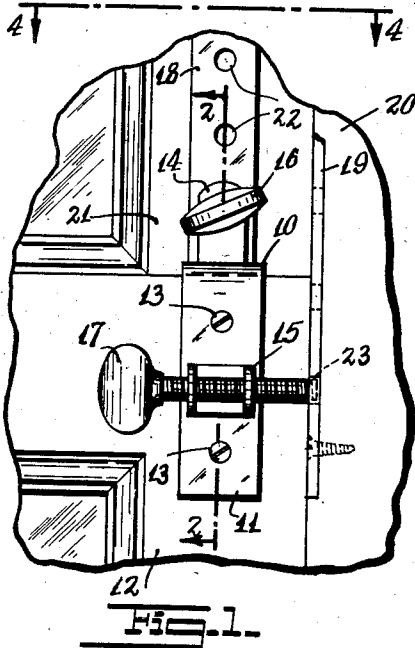
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ADJUSTABLE LOCK FOR WINDOWS

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ADJUSTABLE LOCK FOR WINDOWS

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4 Claims. (Cl. 292—251)

This invention relates to new and useful improvements in an adjustable lock for windows.

The invention has for an object the construction of a lock as mentioned which is adapted to be attached upon the top of an inner window sash and is provided with clamping screws engageable against the outer window sash and against the frame of the window for the purpose of holding the sashes locked to each other and locked to the frame.

More particularly the invention relates to the construction of certain brackets adapted to hold the screws in operative positions.

Still further the invention contemplates constructing the brackets mentioned in the previous paragraph of substantially U-shape with the screw engaging through both of the arms of the U-shape, and the U-shape brackets being attached upon the body of the lock at their center portions, that is, the bends.

Still further the invention also contemplates the association of strips with apertures for receiving the ends of the screws, arranged upon the outer sash and upon the frame for coaction with the screws.

Still further the invention also proposes the provision of means whereby the U-shaped brackets for holding the screws are adjustably mounted upon the body of the device and arranged in a manner so that they may be locked immovable in operative positions, and upon slight turning of the screw be movable into inoperative positions and so prevent the necessity of an exceedingly large number of turns upon the screws to disengage the screws from the strips.

Still further the invention proposes the construction of a device as mentioned which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a fragmentary elevational view of a portion of a window frame with inner and outer sashes and provided with an adjustable lock according to this invention.

Fig. 2 is a fragmentary sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of Fig. 1.

Fig. 4 is a fragmentary elevational view of Fig. 1 but illustrating another embodiment of this invention.

Fig. 5 is a sectional view of the lock per se taken on the line 5—5 of Fig. 4.

Fig. 6 is a sectional view taken on the line 6—6 of Fig. 5.

The adjustable lock for windows according to this invention comprises an inverted L-shaped body having a top horizontal arm 10 and a vertical bottom arm 11, and is attached upon the top edge of an inner window sash 12. More particularly the corner of the L-shaped body is engaged against the corner of the top edge of the sash and arranged so that a top arm 10 extends over the top of the sash while the vertical arm 11 extends down along the front side. Screws 13 are engaged through the arms of the L-shaped body and into the frame portion of the sash for the attachment of the body in position. U-shaped brackets 14 and 15 are attached upon their central portions upon the arms of said body, and are arranged so as to adjustably hold screws 16 and 17 adapted to be engaged respectively with strips 18 and 19.

The window sash 12 is mounted in a conventional window frame 20, not illustrated in detail upon the drawing and which is associated with an outer sash 21. A strip 18 is attached upon the outer sash 21 and is formed with a plurality of openings 22 adapted to receive the end of the screw 16. The screw 16 is threadedly engaged through both of the arms of the bracket 14 and the bracket is attached at the central portion, that is, the bent portion upon the top of the body. More specifically the bracket 14 is arranged to be endwise of the plane of the sash 21.

The bracket 15 is attached upon the vertical arm 11 of the body and is arranged endwise to the side of the frame 20. The strip 19 is attached upon the frame 20 and is formed with a plurality of apertures 23 adapted to receive the end of the screw 17. The screw 17 threadedly engages through both of the arms of the bracket 15, and the bracket is attached at its center upon the vertical arm 11 of the body. Preferably, as illustrated in Fig. 3 the strip 18 may be much longer than the strip 19 since in practice it will be found that it is desirable to relatively adjust the inner and outer sashes through larger distances while it is desirable to be capable of adjusting the sashes in a fixed position, through smaller distances in the frame.

In Figs. 4 and 5 a modification of the invention has been disclosed in which an arrangement is provided whereby the brackets 14 and 15 are adjustably mounted upon the arms of the body and arranged in such a fashion that they may be latched in fixed positions, or upon certain operation, may be moved into operative positions. More particularly each of the brackets is formed with a bayonet slot 25, of substantially L-shape, upon the central portion of the bracket, and these slots are engaged by rivets 26 pro-

jecting from the body. The rivets 26 are provided with large heads so that they may not be disengaged from their location through the slots 25. The slots 25 are arranged with their long arms 25' at right angles to the coacting strips 18 or 19 and with the short arms 25^a parallel therewith. The short arms are formed with offset recesses 25^b adapted to receive the shanks of the rivets 26 when the brackets are forced outwards or away from the strips 18 and 19. The shanks of the rivets 26 are square, as illustrated in Fig. 5, so that when engaged in the recesses 25^b the brackets cannot rotate.

The recesses 25^b are comparatively shallow, substantially one-half of the thickness of the shanks of the rivets and the arrangement is such that the depth of the recesses 25^b is much smaller than the thickness of the strips 18 or 19. This arrangement is such that normally, when the screws 16 and 17 are screwed in completely into the openings of the strips, and the window is held in the latched position, the brackets 14 and 15 will be urged outwards so that the recesses 25^b engage the shanks of the rivets 26 and so the brackets are held in fixed position against rotation.

If it is desired to unlatch the windows the screws 16 and 17 need be turned only several turns so as to be capable of moving the brackets 14 and 15 inwards to disengage the shanks of the rivets from the recesses 25^b. Then the brackets may be moved laterally so that the shanks of the rivets pass along the short arms 25^a of the L-shaped slots and then longitudinally so that the shanks of the rivets pass along the long arms 25' of the L-shaped slots and it will readily be seen that the screws are disengaged from the openings of the holding strips. The purpose of this arrangement is to remove the annoyance of turning the screws through many revolutions before engagement and disengagement is possible.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

1. In an adjustable lock for windows, an inverted L-shaped body for attachment on the top edge of an inner sash of a window and having a top arm for extending across the top edge of the sash and a vertical arm for extending down along the face of the sash, U-shaped brackets attached at their centers upon said arms, said top bracket being endwise of the plane of the outer sash, said bottom bracket being endwise of the side of a window frame holding said sashes, and screws threadedly engaged through the arms of said U-shaped brackets for engaging into openings in strips attached upon the inner side of the outer sash and the side of the window frame, said U-shaped brackets being adjustably attached upon said body, and headed studs from the body engaging through bayonet slots in said brackets.

2. In an adjustable lock for windows, an in-

verted L-shaped body for attachment on the top edge of an inner sash of a window and having a top arm for extending across the top edge of the sash and a vertical arm for extending down along the face of the sash, U-shaped brackets attached at their centers upon said arms, said top bracket being endwise of the plane of the outer sash, said bottom bracket being endwise of the side of a window frame holding said sashes, and screws threadedly engaged through the arms of said U-shaped brackets for engaging into openings in strips attached upon the inner side of the outer sash and the side of the window frame, said U-shaped brackets being adjustably attached upon said body, and headed studs from the body engaging through bayonet slots in said brackets, said bayonet slots being of L-shape and having recesses in the short arms.

3. In an adjustable lock for windows, an inverted L-shaped body for attachment on the top edge of an inner sash of a window and having a top arm for extending across the top edge of the sash and a vertical arm for extending down along the face of the sash, U-shaped brackets attached at their centers upon said arms, said top bracket being endwise of the plane of the outer sash, said bottom bracket being endwise of the side of a window frame holding said sashes, and screws threadedly engaged through the arms of said U-shaped brackets for engaging into openings in strips attached upon the inner side of the outer sash and the side of the window frame, said U-shaped brackets being adjustably attached upon said body, and headed studs from the body engaging through bayonet slots in said brackets, said bayonet slots being of L-shape and having recesses in the short arms, the shanks of said headed studs being of square cross section and engageable with said recesses, said recesses being similarly shaped for preventing rotation of the brackets upon the studs.

4. In an adjustable lock for windows, comprising an inverted L-shaped body for attachment on the top edge of an inner sash of a window and having a top arm for extending across the top edge of the sash and a vertical arm for extending down along the face of the sash, U-shaped brackets attached at their centers upon said arms, said top bracket being endwise of the plane of the outer sash, said bracket being endwise of the side of a window frame holding said sashes, and screws threadedly engaged through the arms of said U-shaped brackets and engageable into the openings in said strips attached upon the inner side of the outer sash and the side of the window frame, said U-shaped brackets being adjustably attached upon said body, and headed studs from the body engaging through bayonet slots in said brackets, said bayonet slots being of L-shape and having recesses in the short arms, the shanks of said headed studs being of square cross section and engageable with said recesses, said recesses being similarly shaped for preventing rotation of the brackets upon the studs, and said L-shaped slots being arranged with the short arms transversely and the long arms longitudinally of said brackets.

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