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G. O. BRIGGS

SASH FASTENER

Filed Feb. 12, 1927

Fig. 1.

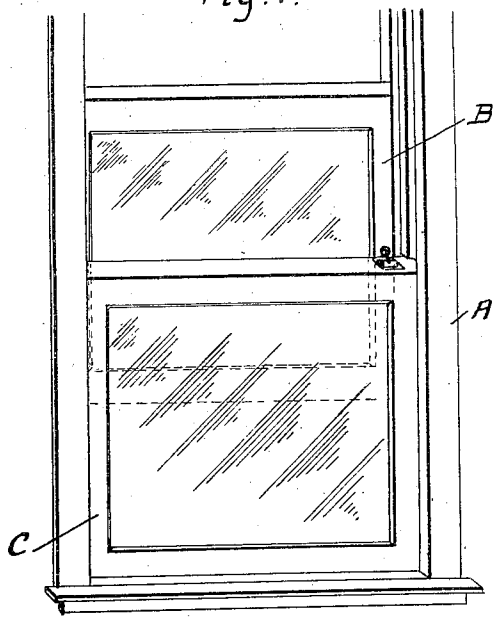


Fig. 2

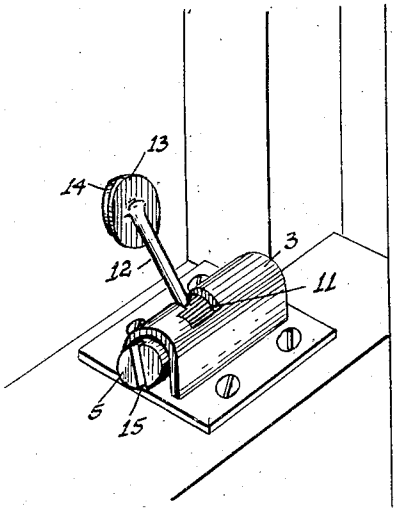
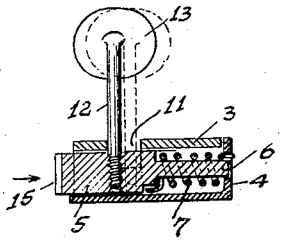


Fig. 3



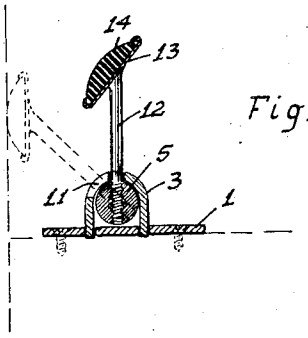


Fig. 4.

Fig. 5.

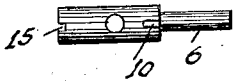


Fig. 6

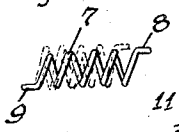
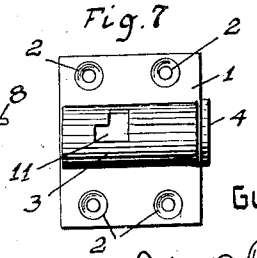


Fig. 7



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UNITED STATES PATENT OFFICE.

GUY O. BRIGGS, OF CLEVELAND, OHIO.

SASH FASTENER.

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My present invention, in its broad respect, has reference to improvements in fastening devices for window sashes of the type designed, when in an active status, to prevent movement of any of several cooperating sashes to an open position, or to prevent any relative change in the position of several sashes except toward a closed position after having been placed in a predetermined open position.

More particularly it is my purpose to provide a simple and effective sash fastener which may be readily placed in a passive status to permit opening of any of several sashes, or to permit the opening of a single sash with respect to its frame, and which when placed in an active status will permit only closing movement of the sash or sashes. To this end I have provided an arm which is both pivotally and slidably mounted on a sash and which is acted upon by a unique double acting spring device which serves to retain said arm either in an active, or securing position, with respect to a cooperating sash or with respect to the frame of a window, or the like, or to retain said arm in a passive, or unsecured position.

Other and equally important advantages of my fastener may be briefly defined as follows: first, the securing arm and actuating spring before referred to, and all other parts of my invention, are assembled in a single unit for attachment to but one of two cooperating sashes thereby dispensing with the use of two units, one on each of two cooperating sashes, as has been the usual practice heretofore; second, rubber or other inherently resilient means are provided on the securing arm for positive engagement with an adjacent surface of a cooperating sash, without marring the surface thereof, to induce through the instrumentality of said arm a securing wedging and prevent relative opening movement of the sashes, and furthermore to prevent rattling of said sashes, and, third, my device in assembly is composed of but four parts, none of which are intricate or fragile or likely to become out of order.

One embdiment of my invention is illustrated by way of example in the accompanying drawings wherein:—

Figure 1 is a perspective view of a double sash window frame assembly showing my fastener applied thereto; Fig. 2 is a perspective view of my fastener, a portion of a sash being also shown to illustrate its application; Fig. 3 is a longitudinal section through my fastener; Fig. 4 is a transverse section; Fig. 5 is a detail of the carriage; Fig. 6 is a detail of the double acting spring, and Fig. 7 is a detail view of plate.

In the drawings wherein like characters of reference are used to designate like and similar parts throughout the several views:

The window frame is designated by A, and the respective upper and lower cooperating sashes by B and C. These are conventionally shown and may be of any approved type.

The plate 1 of my fastener has suitable screw holes 2 through which are disposed the screws by which the plate is attached to the lower sash C. A U-shaped housing 3 is fixed on the plate, and one end thereof is closed by an upwardly bent ear 4 integral with the plate 1, the other end of the housing is open for the reception of a cylindrical carriage 5 having a reduced shank 6 which extends through and is adapted to work in an opening in the ear 4 when the carriage is moved lengthwise of the housing. A coil spring 7 is disposed about the shank 6 and has one end 8 engaged with the ear 4 and the other end 9 with the carriage 5, a slot 10 being provided in the carriage for that purpose. The housing 3 has formed therein a bayonet slot 11 through which extends for screw threaded engagement with the carriage 5, an arm 12, the free end of which is provided with a flanged head 13. A pad 14 of rubber or other suitable inherent resilient material is retained on the head of the arm 12 by the flange thereof, as shown in Fig. 4.

In assembling my fastener, the spring 7 is engaged with the carriage 5 and the carriage given a turn to place the spring under tension, the arm 12 is then attached to the carriage, and since the spring is under tension the arm will be normally urged to the position shown in dotted lines in Fig. 4, which is its active position. The end of the carriage is provided with a slot 15 for receiving a screw-driver to turn the same, and when so turned against the tension of the spring 7, the carriage will be urged forward and lock the arms in the bayonet slot 11 in the position shown in full lines, in Fig. 4, which is its passive position. It will thus be seen that the spring 7 is double acting in that it urges the arm 12 both to its active position and to its passive position, this end being

accomplished by simply turning the carriage. The carriage may also be turned by simply manipulating the arm directly (pulling it back) instead of utilizing a screw driver.

In operation, the fastener is placed in its passive position and the window opened (by raising or lowering either or both of the sashes B and C) the fastener is then released and will engage the adjacent surface of the cooperating sash in which position further opening of the window will be prevented by the wedging-securing action of the arm 12. The window may be closed however, without disturbing the fastener since closing movement does not affect such wedging action. Furthermore, where but one sash is operative my fastener may be disposed to engage the adjacent surface of the frame, and in any case marring or scratching of the surface engaged by the fastener is absolutely prevented by the pad.

I claim:

1. A window fastener comprising a member movable in one direction to a position to prevent relative opening movement of either or both of a pair of sashes, and in another direction to release the sashes, a double acting member adapted to urge said member either to its active or to its passive position, and said member being movable against the action of said double acting member to release it from its active position.

2. An window fastener comprising an arm movable in one direction to prevent relative opening movement of either or both of a pair of sashes, and in another direction to release said sashes, a double acting spring adapted to urge said arm to its active or to its passive position, and said arm being movable against the action of said double acting spring to release it from its active position.

3. A window fastener comprising a member adapted for movement in one plane to a position to prevent relative opening movement of either or both of a pair of sashes, and to release said sashes, and in another plane to a normal passive position, a double acting spring adapted to urge said member to its active position or to its passive position, and said member being movable against the action of said double acting spring to dispose it for movement in the last mentioned plane to a normal passive position.

4. A window fastener comprising a movable body, an arm carried by said body to wedgingly engage an adjacent structure to secure a window in an open position, said body being movable in one direction to release said arm from its wedging position and in another direction to secure said arm in a passive position, and a double acting spring for urging said body to move in the direction for disposing said arm in a passive position and against the direction of movement of said body to release the arm from its wedging position.

5. A window fastener comprising a movable body, an arm carried by the body, a spring acting upon the body to resist movement of the body in one direction and urge movement of the body in a direction at an angle to the first direction of movement of the body.

6. A window fastener comprising a movable body, an arm carried by the body, a spring acting upon the body to resist movement of the body in one direction and urge movement of the body in a direction at an angle to the first direction of movement of the body, and a casing for the body formed with a bayonet slot through which the arm extends for engagement with the body.

7. A window fastener comprising a movable body for arrangement upon a sash, an arm carried by the body and adapted to engage an adjacent structure to prevent opening movement of the sash, said arm being provided with a cushioned head, a spring acting upon the body to resist movement of the body to release the arm from engagement with the adjacent structure, and urge movement of the body in a direction at an angle to the first direction of movement of the body.

In testimony whereof, I do affix my signature.

GUY O. BRIGGS.