

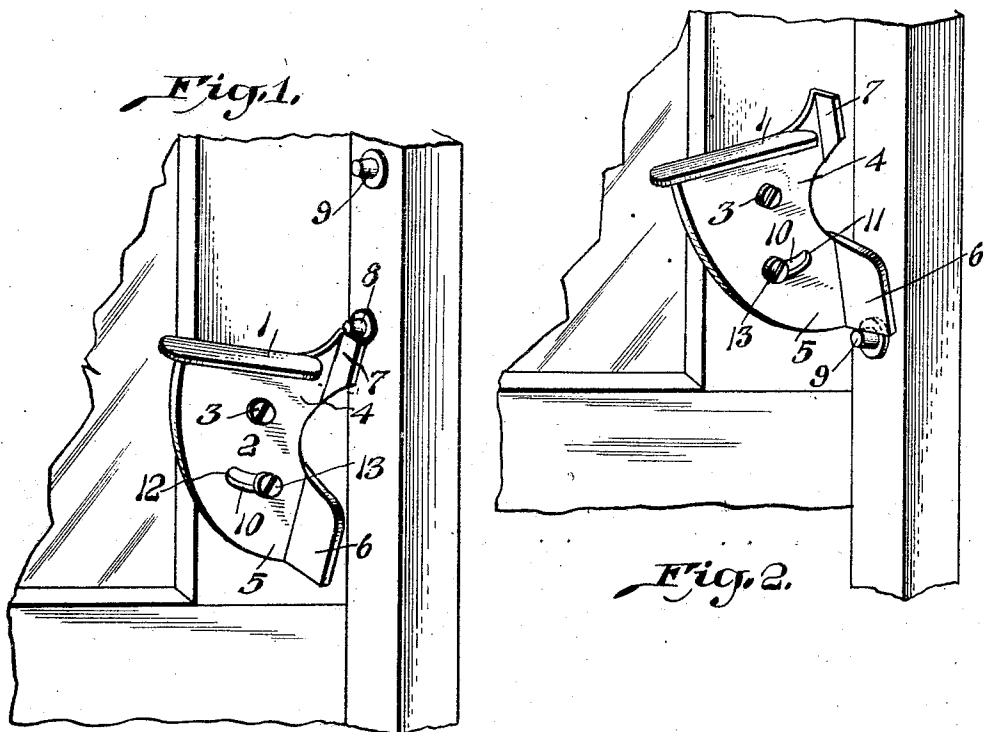
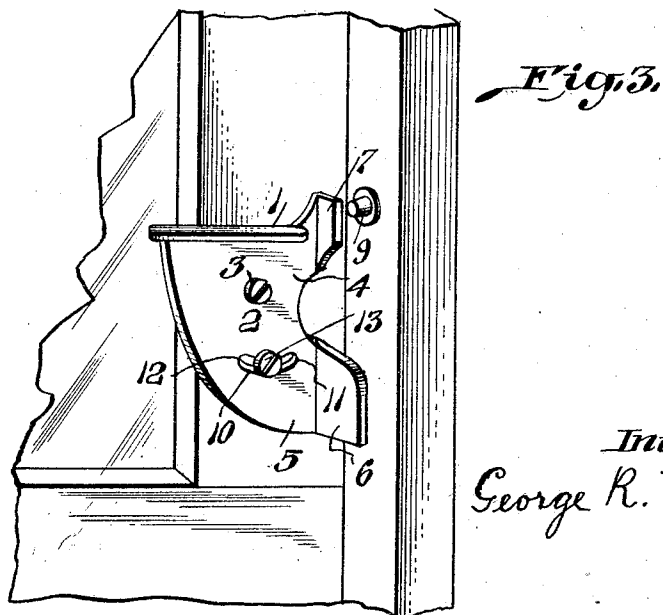
June 9, 1925.

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G. R. HALL

COMBINED SASH LIFT AND WINDOW LOCK

Filed April 23, 1923



Inventor:
George R. Hall

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GEORGE R. HALL, OF DAYTON TOWNSHIP, NEWAYGO COUNTY, MICHIGAN.

COMBINED SASH LIFT AND WINDOW LOCK.

Application filed April 23, 1923. Serial No. 633,967.

To all whom it may concern:

Be it known that I, GEORGE R. HALL, a citizen of the United States, residing at Dayton Township, in the county of Newaygo and State of Michigan, have invented a new and useful Improvement in a Combined Sash Lift and Window Lock, of which the following is a specification.

The object of this invention is to form a single operating unit that shall serve the double purpose of a sash-lift for raising and lowering the window and a locking bolt for locking the window securely when it is closed down, and holding it in position when raised. I attain this object in the manner shown by the accompanying drawing in which Fig. 1, shows the lock in position when the window is closed down and securely locked;

Fig. 2, shows the lock in position when the window is raised and held in position;

Fig. 3, shows the lock in position to pass the stops when in use as a sash-lift.

Similar numerals refer to similar parts throughout the several views.

This article may be cast, but I prefer to form it from a piece of sheet metal of suitable size and temper by bending two portions thereof at right angle to each other; one portion is trimmed to suitable size and shape to form a convenient and effective hand-hold 1, for use as a sash-lift in raising and lowering the window; the other portion forms a base 2, for attaching to the face of the sash bar. Upon this base two extensions 4—7 and 5—6, are formed and shaped to form locking bolts.

Integral formation as a part of the base is preferred for these extensions; but they may be separately formed and rigidly secured to the base in such manner that the base 2, the hand-hold 1, and the locking bolt extensions 4—7 and 5—6, shall form a single operating unit which is pivotally mounted upon the face of the sash bar by the screw 3, in a manner to permit a slight rotary or rocking motion sufficient to operate the locking bolts 4—7 and 5—6, by causing them to engage suitable projecting stops placed on the window casing.

The extension 4—7, extends from the base 2, toward the window casing with an upward angle which disposes its terminal end 7, above the pivotal screw 3; it is shaped to form a locking bolt by bending its terminal end 7, forward at right angle to

4 thus forming a narrow locking face adapted to engage the special stop 8, and lock the sash down securely when the window is closed. For holding the sash in position when raised a series of regular stops (of which 9, is one) is placed on the casing above the special stop 8, and at a distance from the face of the sash bar exceeding the width of the locking face 7, this permits the locking bolt 4—7, in any position to pass freely up and down without contact with any stop except its own special stop 8, when down and in locking position.

Extension 5—6, extends from the base toward the window casing with a downward angle which disposes its terminal end 6, below the pivotal screw 3; it is shaped to form a locking bolt in same manner as 4—7, except that its terminal end 6, which is bent forward at right angle to 5, is longer and forms a broader locking face having sufficient width to engage the series of regular stops (of which 9, is one) and hold the window in place when raised.

The motion of the operating unit formed by the base 2, the hand-hole 1, and the locking bolts 4—7 and 5—6, is limited by the stop 13, in the slot 10; length of slot controls length of motion. The slot 10, and stop 13, are placed in such relation to the pivotal screw 3, that the extreme limit of motion toward the window casing will place the hand-hold 1, approximately level and in its most convenient and effective position for use as a sash-lift in raising and lowering the window. In this position (Fig. 3) the locking bolts will pass all regular stops without contact, but the extreme reverse motion will engage any one of the series of regular stops and hold the window in position when raised.

All stops project sufficiently to permit locking bolts to engage them without contact with the surface to which the stops are secured. The pivotal screw 3, and stop 13 are placed at such distance from the window casing that the extreme limit of motion in any direction does not permit the locking bolts to come in contact with the surface to which the stops are secured.

I claim;

1. In a combined sash-lift and window-lock, the combination of a hand-hold of suitable size and shape for convenient and effective use as a sash-lift, a pivotal base, a narrow-faced locking bolt adapted to en-

gage a special stop to lock the window down,
a broad-faced locking bolt adapted to en-
gage a series of regular stops to lock the
window in position when raised; all shaped
5 and united to form a single operating unit
pivotally mounted upon the face of the sash-
bar in combination with a limiting stop lim-
iting its motion, whereby it is adapted and
made to serve the double purpose of a sash-
10 lift and locking bolt.

2. In a combined sash-lift and window-
lock, the combination of a hand-hold of
suitable size and shape for convenient and
effective use as a sash-lift, a pivotal base, a
15 narrow-faced locking bolt adapted to en-
gage a special stop to lock the window down,
a broad-faced locking bolt adapted to en-
gage a series of regular stops to lock the
window in position when raised; all shaped

and united to form a single operating unit 20
pivotally mounted upon the face of the sash-
bar in combination with a limiting stop
limiting its motion, a special stop secured to
the window casing near to the face of the
sash-bar and adapted to engage the narrow- 25
faced locking bolt to lock the window down
and a series of regular stops secured to the
window casing farther away from the face
of the sash-bar and adapted to engage the
broad-faced locking bolt to hold the window 30
in position when raised, whereby the combi-
nation serves the double purpose of a sash-
lift and a window-lock.

GEORGE R. HALL.

Witnesses:

ED. R. MARSHALL,
LOUIS HART.