

W. M. HOTCHKISS.
SASH HOLDER AND LOCK.
APPLICATION FILED FEB. 25, 1911.

Patented Apr. 30, 1912.

2 SHEETS-SHEET 1.

1,024,780.

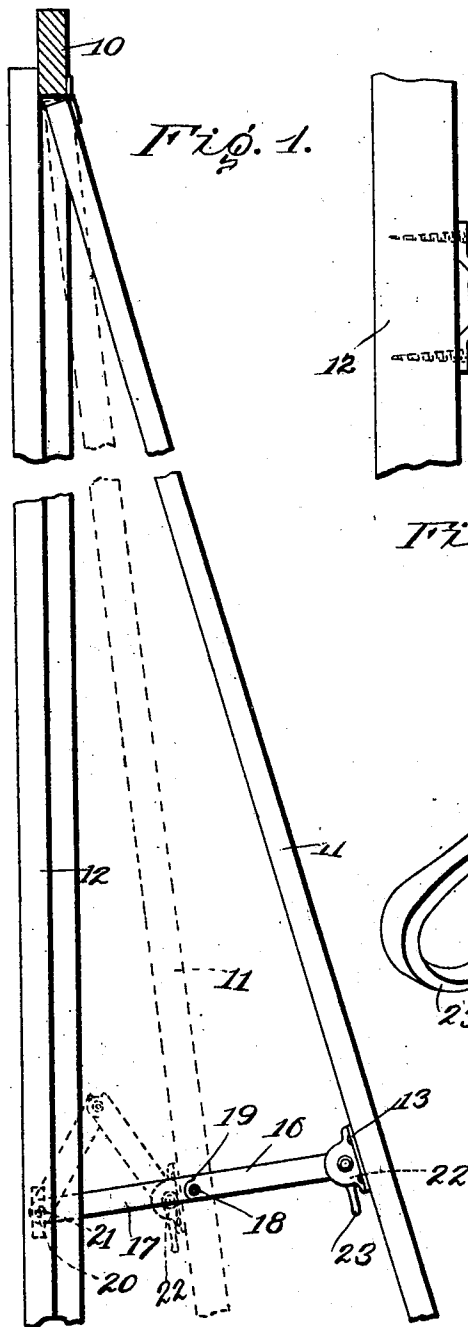


Fig. 1.

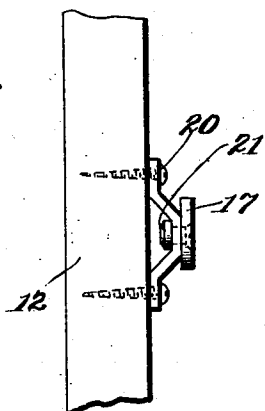


Fig. 6.

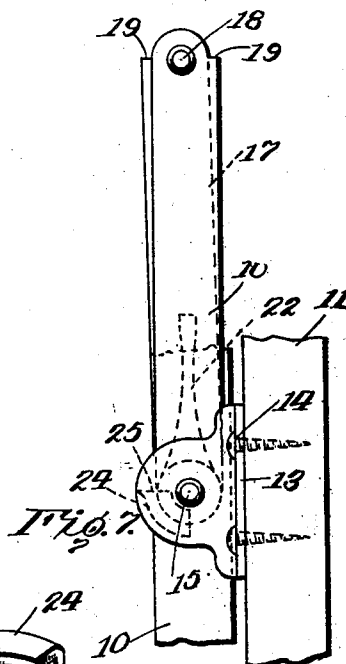


Fig. 7.

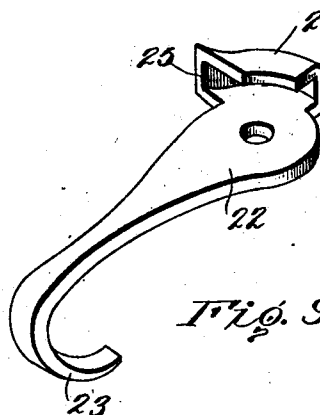


Fig. 9.

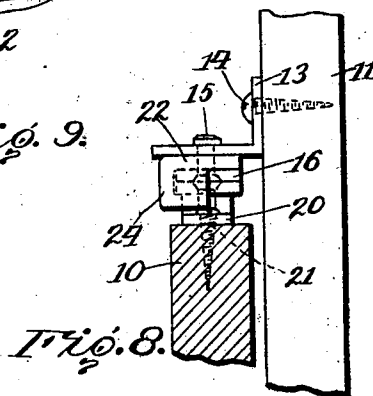


Fig. 8.

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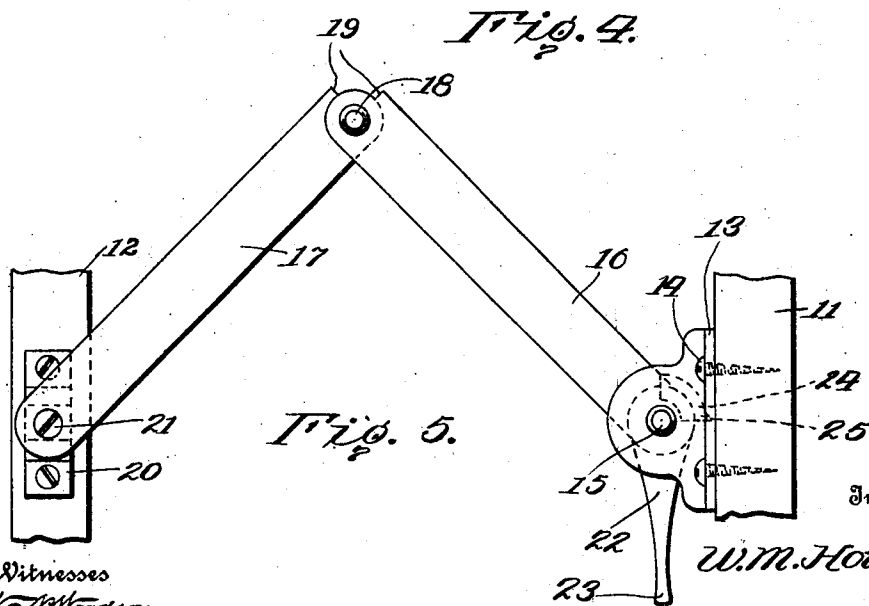
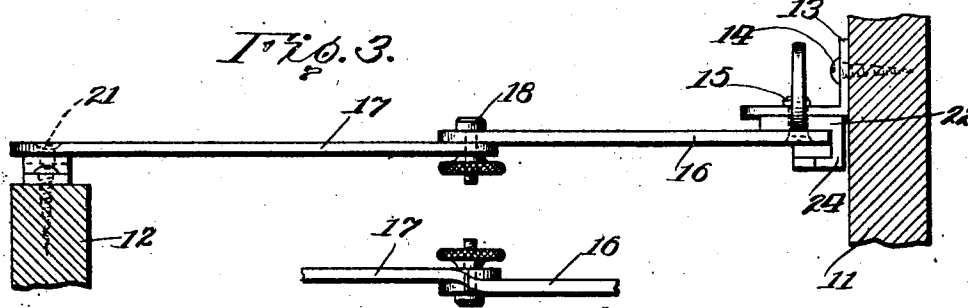
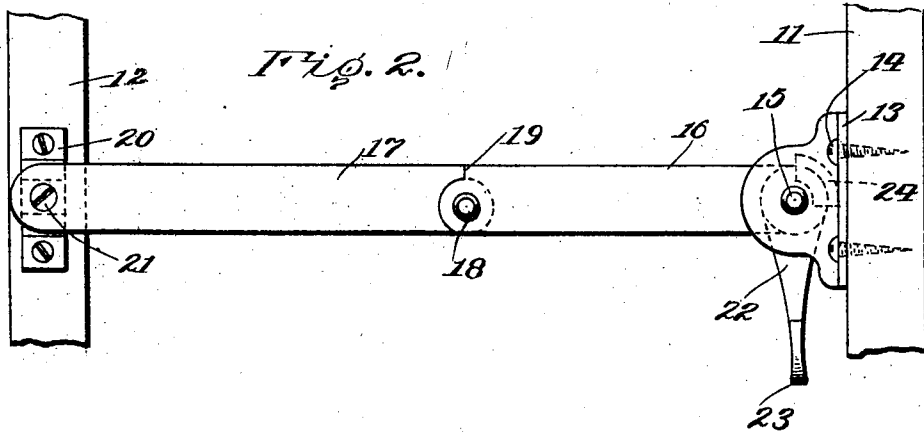
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2 SHEETS-SHEET 2.



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UNITED STATES PATENT OFFICE.

WILLIAM M. HOTCHKISS, OF NEW ROCKFORD, NORTH DAKOTA.

SASH HOLDER AND LOCK.

1,024,780.

Specification of Letters Patent.

Patented Apr. 30, 1912.

Application filed February 25, 1911. Serial No. 610,872.

To all whom it may concern:

Be it known that I, WILLIAM M. HOTCHKISS, citizen of the United States, residing at New Rockford, in the county of Eddy and State of North Dakota, have invented certain new and useful Improvements in Sash Holders and Locks, of which the following is a specification.

This invention relates to an improved sash holder and lock, and has for one of its objects to provide a light and simple device of this character adaptable particularly to storm sashes which are hinged at their upper ends in the casing.

Another object of this invention is to provide a sash lock which is positive, and which comprises but a single lever operable by the thumb which is so peculiarly formed as to secure the holding members from separation when closed and thereby firmly retain the sash within the casing.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a side elevation partly in section of the frame having a storm sash therein and showing the application of the improved holder thereto; Fig. 2 is a detail enlarged view of the holder extended; Fig. 3 is a bottom edge view of the same; Fig. 4 is a detail edge view of the hinged joint between the swinging arms, taken from the opposite side to that which is disclosed in Fig. 3; Fig. 5 is a side elevation of the improved holder partially closed; Fig. 6 is a detail view of the attaching strap and its hinged connection with the outer arm; Fig. 7 is a side elevation of the holder closed; Fig. 8 is a bottom plan view of the same; and, Fig. 9 is a detail perspective view of the lock-lever.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawing by the same reference characters.

Referring to the drawing 10 designates a window casing having a storm sash 11 hinged at its upper end therein. The casing 10 is provided with the usual outside sash stop 12 against which the storm sash 11 rests when closed.

The improved holder or fixture comprises a fixed bracket in the form of an angle iron

having a base 13 secured against the inner face of the storm sash 11 by screws 14 or the like, the base flange 13 being provided with an outstanding flange at one edge which hingedly supports upon a rivet 15 an inner arm 16. The outer end of the rivet is countersunk in the inner face of the arm 16 to accommodate an outer arm 17 hinged by a set screw 18 upon the outer end of the arm 16 and adapted to swing over against the inner face of the same. Offset shoulders 19 are formed upon the hinged overlapping ends of the arms 16 and 17 and are adapted to engage one another when the arms 16 and 17 are extended. The outer end of the arm 17 is pivoted upon another bracket 20 which is secured against the outside sash stop 12. The bracket 20 is offset outwardly midway of its ends to support a rivet 21 which hingedly carries the outer end of the arm 17.

The fixed bracket carries a lock-lever 22 which is rounded at its inner end to conform to the width of the arm 16 and which tapers outwardly into a lip 23 which is curved out from the arm 16 about the edge of the outstanding flange of the fixed bracket. The inner enlarged end of the lock-lever is provided with a central opening through which the rivet 15 passes to hingedly support the lock-lever. The lock-lever 22 is provided at its rounded portion with an arcuate locking flange 24 which is in the form of an overhanging lip turned in at its outer edge to engage over the adjacent ends of the arms 16 and 17 when the same are closed or brought together. The locking flange 24 is so positioned upon the lock-lever 22 that when the lip 23 is swung down or against the sash 11 at one side of the fixed bracket the locking flange 24 clears the ends of the arms 16 and 17 and admits of the uninterrupted movement of the same toward and from each other.

In the operation of the improved holder, when the sash 11 is swung out from the casing 10 the free ends of the arms 16 and 17 are moved apart and approach longitudinal alinement. When the storm sash 11 is fully opened the shoulders 19 are brought together and form a stop to hold the arms 16 and 17 from sagging down and releasing the sash 11.

When it is desired to close the sash the adjacent ends of the arms 16 and 17 are raised to separate the shoulders 19 and to thereby contract the opposite ends of the

arms. When the arms 16 and 17 are brought together they move within the locking flange 24, and to hold the arms in such closed position the lip 23 is swung about the
5 base bracket to the opposite side thereof, when the locking flange 24 is moved against the outer edges of the arms 16 and 17 to hold the same from separation.

10 It is readily seen that this improved holder and lock may be employed in connection with any members which are adapted to be separated so that the same can be held apart and can be locked in a closed position when desired. It will also be observed that all the parts of this improved
15 sash holder and lock are so peculiarly formed that they may be cut from sheet metal and may be oppositely formed if so desired.

20 It will be noted from Fig. 9 of the drawings that the forward end of the locking flange 24 is turned out away from the body of the lever 22 to form a projection 25. The projection 25 provides an inner inclined or cam face adapted to engage over the rounded
25 end of the outer arm 17 in order to draw the same into a closed position should the

sash 11 not fit snugly within the casing 10. The set screw 18 is employed for binding the arms 16 and 17 together in various angles so as to hold the storm sash out at various angles with respect to the casing.

Having thus described the invention, what is claimed is:

A combined sash holder and lock comprising coacting arms hingedly united at one end and adapted to be pivoted at their other ends respectively to a window frame and to a sash, the outer ends of the arms being semi-circular and the pivots concentric to the rounded ends, a locking lever swinging upon the terminal pivot of one of the arms, and an overhanging lip extending laterally from said lever and concentric to said rounded ends and bearing over the rounded ends of both arms when the same are disposed side by side.

In testimony whereof, I affix my signature in presence of two witnesses.

WILLIAM M. HOTCHKISS. [L. S.]

Witnesses:

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H. J. MITCHELL.