

No. 679,464.

Patented July 30, 1901.

H. L. LOOMIS.

SASH LOCK.

(Application filed May 7, 1900.)

(No Model.)

Fig. 1.

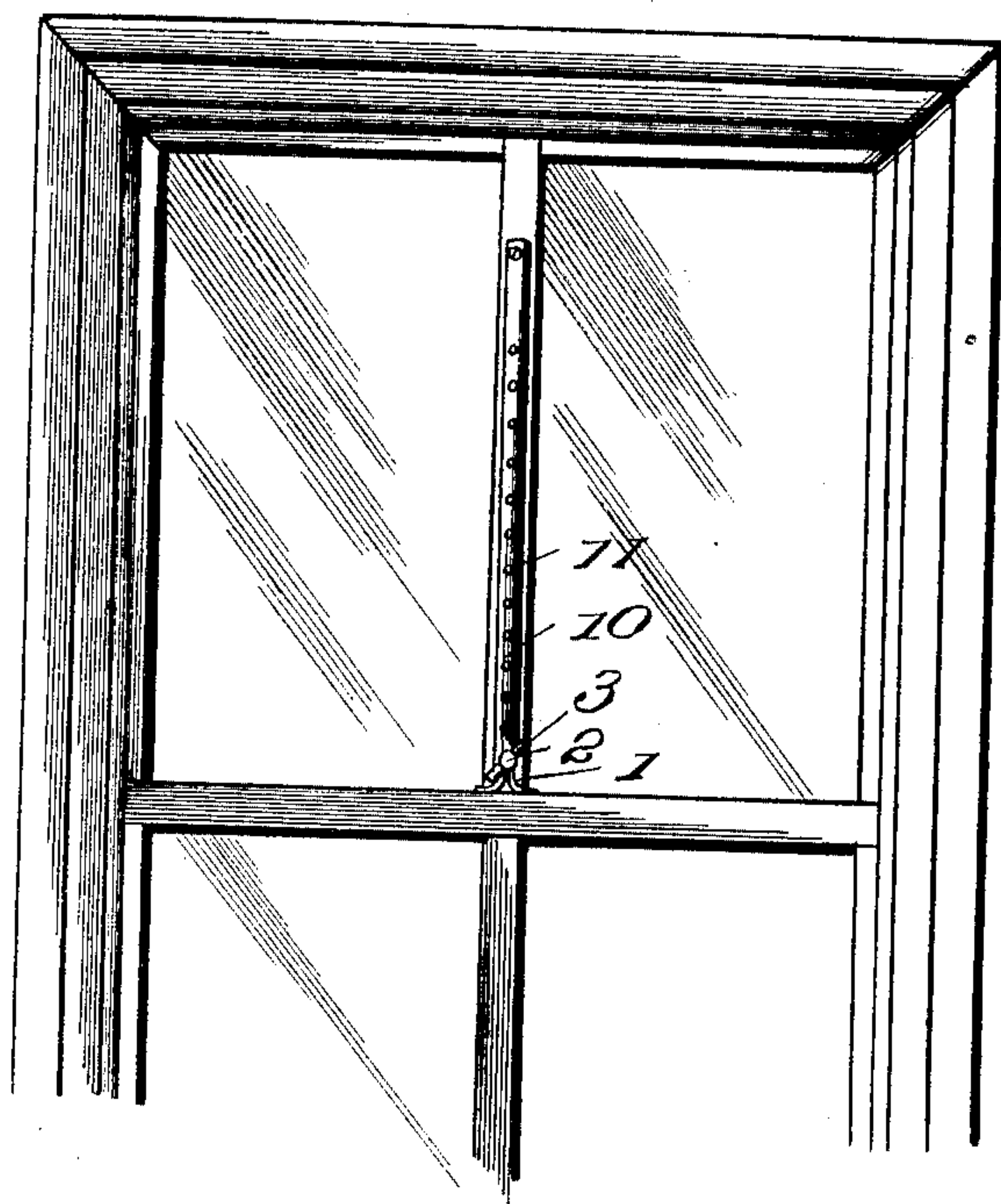


Fig. 2.

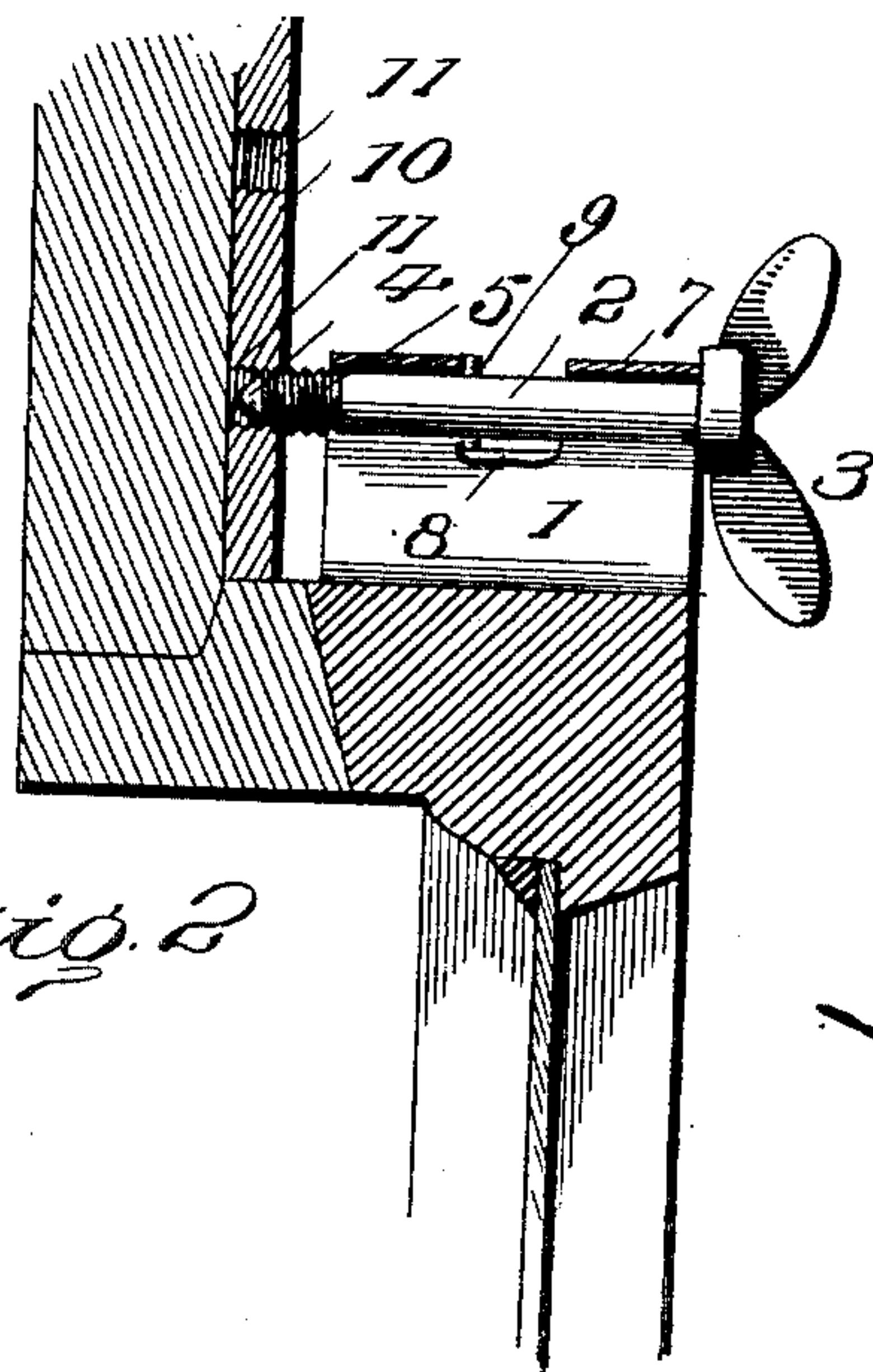
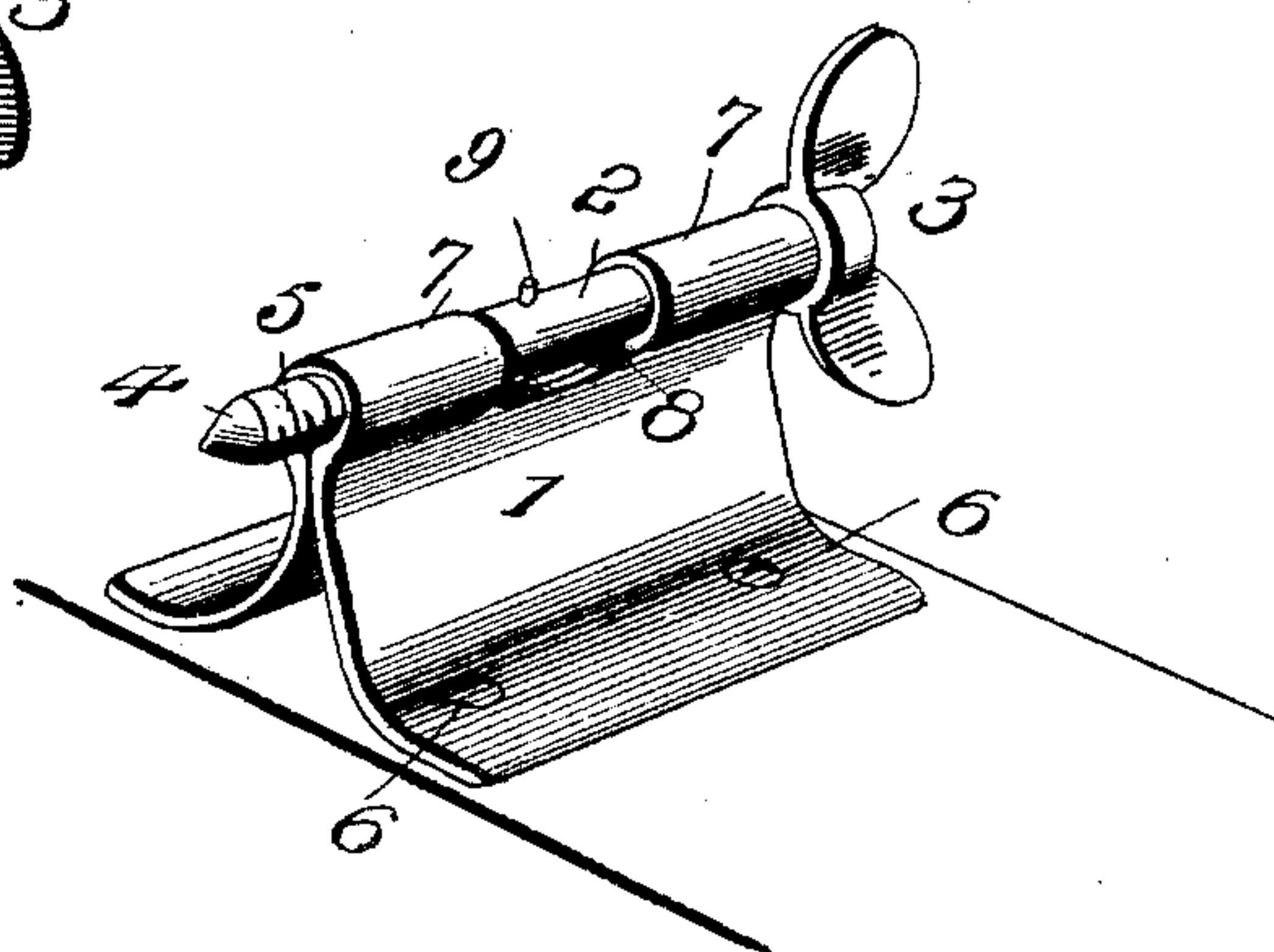


Fig. 3.



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SASH-LOCK.

SPECIFICATION forming part of Letters Patent No. 679,464, dated July 30, 1901.

Application filed May 7, 1900. Serial No. 15,801. (No model.)

To all whom it may concern:

Be it known that I, HENRY L. LOOMIS, a citizen of the United States, residing at Bloomington, in the county of McLean and State of Illinois, have invented certain new and useful Improvements in Sash-Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is designed to provide a simple and effective lock for securing the sash of a window either when closed or opened to any desired extent and which is adapted to be readily applied to any style of window whether single or double lights.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the appended description and drawings hereto attached.

While the essential and characteristic features of the invention are necessarily susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a front view of a window, showing the invention applied. Fig. 2 is a detail vertical section. Fig. 3 is a perspective view of the lock.

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

The lock comprises a base or frame 1 and a lock-bolt 2, the latter provided at one end with a thumb-button 3 and having its opposite end portion pointed, as shown at 4, and provided with screw-threads 5 a short distance from the pointed extremity. In end elevation the base or frame 1 is of tapering form, the wings or side pieces sloping outwardly and downwardly upon curved lines and provided at their lower edges with openings 6 to receive the fastenings by means of which the lock is secured to the top rail of the sash. The crest of the frame consists of a sleeve 7, in which the lock-bolt 2 is rotatably mounted, and this sleeve is cut away at an intermediate point, as shown at 8, to provide clearance for a pin 9, secured in an opening formed trans-

versely of the lock-bolt 2, said pin constituting a stop to prevent outward displacement of the lock-bolt and limit its movement when engaged with the metal strip 10, applied to the central upright of the topmost sash or to a side stile of said sash.

The frame or base 1 is formed of a blank of sheet metal having a centrally-disposed rectangular opening. This blank is doubled upon itself in line with the opening to form a sleeve in the fold to receive the lock-bolt 2. The folded portions adjacent the sleeve are brought together, and thence curve outwardly in opposite directions and terminate in base portions in the same plane and apertured to receive the fastenings 6. The opening in the blank is of a size to provide the cut-away portion 8, which completely intercepts the end portions of the sleeve 7, so as to allow the free rotation of the pin 9 when turning the lock-bolt to engage or disengage it from the strip 10. This opening also facilitates the folding of the blank when imparting the required shape thereto.

The metal strip 10 is provided at intervals in its length with threaded openings 11 to receive the screw-threaded end 5 of the lock-bolt and is adapted to be secured to an upright of the topmost sash. In the event of the sash containing two lights the metal strip 10 is secured to the central strip or upright, and should the sash contain a single light only the strip 10 must be applied to a side stile or can be duplicated and applied to both side stiles.

When the sashes are closed, they are prevented from being opened from the outside by turning the lock-bolt so as to engage the threaded end 5 with the lowermost opening 11. By having the extremity of the lock-bolt pointed, as shown at 4, it will readily enter the opening 11 and centralize the bolt with reference thereto. The parts are so proportioned and disposed that when the projecting end portions of the pin 9 engage with the inner end of the innermost portion of the sleeve 7 the point of the tapering portion 4 will just clear the upright of the sash and prevent injury thereto. When the lock-bolt is screwed into the strip 10, the meeting-rails of the upper and lower sashes are drawn together and rattling thereof is prevented in windy

weather. For ventilation the lower sash can be raised or the upper sash lowered, or both, as required, and the sashes can be relatively secured by engaging the lock-bolt with the
5 desired opening 11 of the strip 10, as will be readily understood.

Having thus described the invention, what is claimed as new is—

10 In a sash-lock comprising a metal strip provided in its length with a series of threaded openings, and a rotary lock-bolt pointed at one end to readily enter any one of the threaded openings of the strip and threaded for a short distance from the point to make posi-
15 tive connection with the selected opening and having a thumb-piece at its outer end, a frame constructed of a single blank of sheet metal having a rectangular opening intermediate of its ends and edges and folded upon

itself in line with the said opening to provide 20 a sleeve to receive the aforesaid lock-bolt and having the folded portions brought together adjacent the sleeve and thence curved outwardly in opposite directions, and having the base portions apertured to receive fastenings, 25 the said opening completely intercepting the end portions of the sleeve and forming a cut-away portion, and a pin applied to the lock-bolt and projecting into the said cut-away part of the sleeve and adapted to hold the 30 lock-bolt in place and limit its movements, substantially as specified.

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

HENRY L. LOOMIS. [L. S.]

Witnesses:

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