

(No Model.)

E. S. HUBBARD.

SASH FASTENER.

No. 390,022.

Patented Sept. 25, 1888.

Fig. 1.

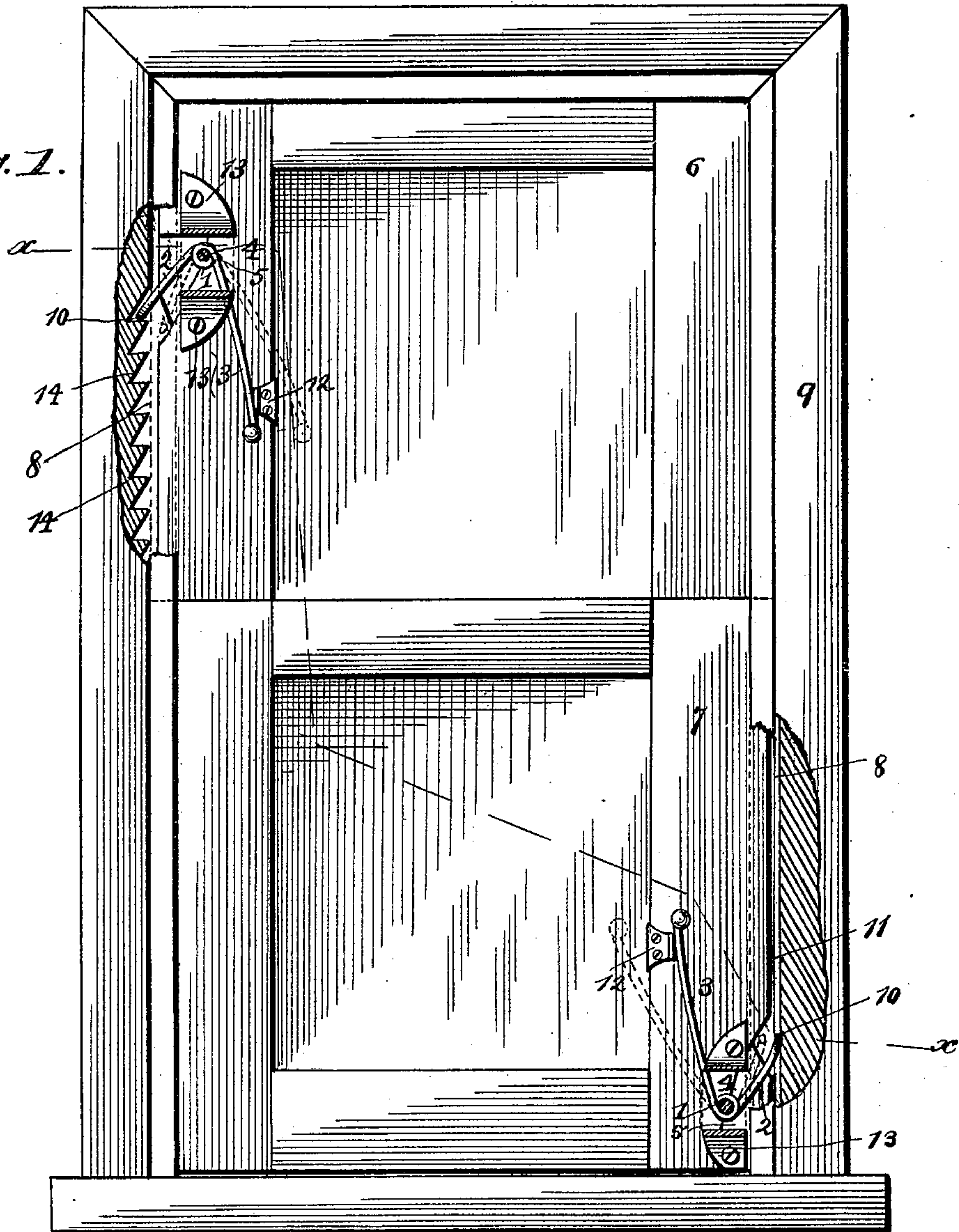
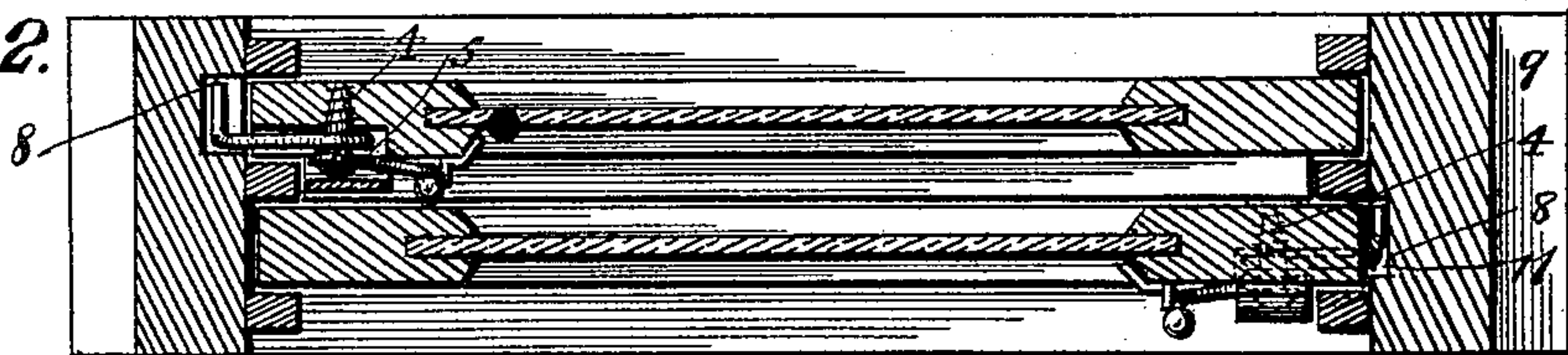


Fig. 2.



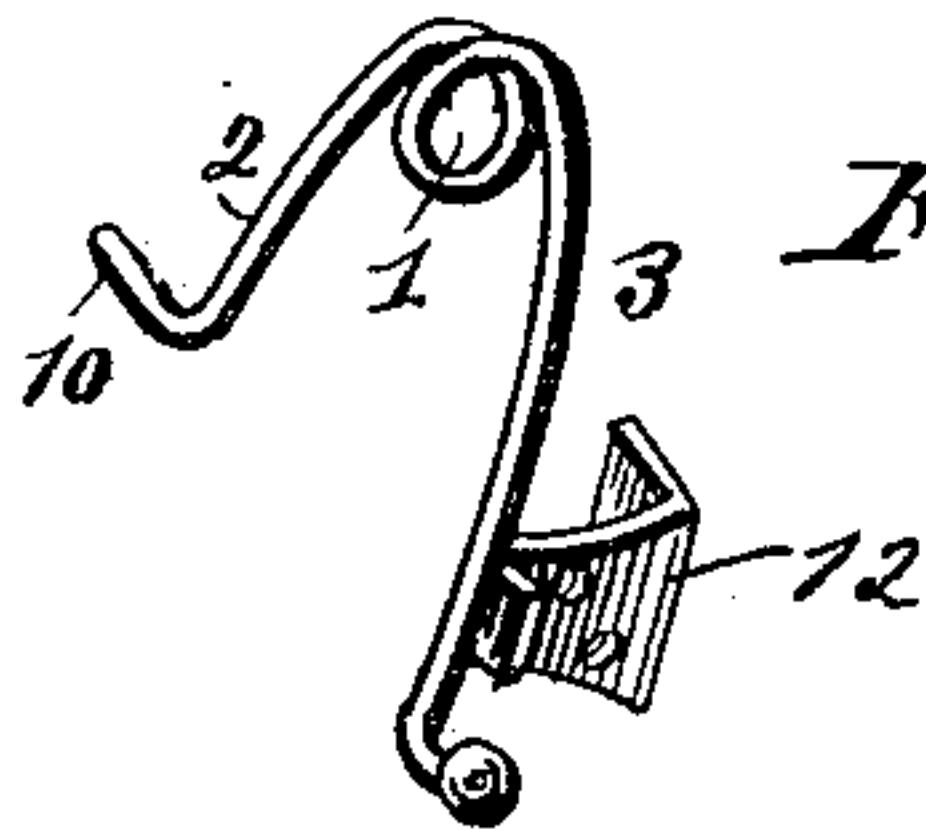
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UNITED STATES PATENT OFFICE.

EZRA S. HUBBARD, OF BELMOND, IOWA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 390,022, dated September 25, 1888.

Application filed October 22, 1887. Serial No. 253,071. (No model.)

To all whom it may concern:

Be it known that I, EZRA S. HUBBARD, of Belmond, in the county of Wright and State of Iowa, have invented a new and Improved Window-Sash Fastener and Holder, of which the following is a full, clear, and exact description.

This invention relates to devices to be attached to a window-sash to hold it in any position to which it may be raised, and also to lock it when closed.

My invention has for its object to provide a combined sash fastener and holder which shall be simple in construction, durable, and easily applied and operated.

My invention consists in a spring-actuated sash fastener and holder constructed and applied as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 represents a window with frame and casing partly broken away and sashes closed, showing the spring fastener and holder applied. Fig. 2 is a cross-section thereof through line x of Fig. 1, and Fig. 3 is a detail view of the spring fastener and stop.

The spring fastener and holder consists of a piece of spring-wire bent to form a coil, 1, and arms 2 and 3. It is pivoted on a screw, 4, in a recess, 5, cut in the face of the sash, as shown on the left-hand side of upper sash, 6, and right-hand side of lower sash, 7. By pivoting the fastener in the recess 5 it will be out of the way on the upper sash, so as to permit the sashes to pass, and will also be in position to cause the short arm 2 to project into the groove 8 of the window-frame 9. The long arm 3, when the fastener is not in engagement, projects beyond the sash-frame, as shown in dotted lines, so that it can be conveniently grasped to operate the fastener.

When it is desired to throw the fastener into engagement, the long arm 3 is swung over a suitable stop or pin on the sash, which throws the short arm 2 forward into groove 8, and causes its bent end 10 to bear against the wall 11 of groove 8 with a firm pressure caused by the tightening of coil 1. The stop may consist of any suitable screw or knob. I have

shown a bent plate, 12, screwed to the sash for this purpose. The long arm bears against this stop and holds arm 2 firmly in place, as described. The recess 5 is covered by a plate, 13, (shown as broken away,) secured to the sash to give it a finished appearance.

In employing the fastener I find that with a stout wire the pressure of arm 2 against the wall 11 will be sufficient to hold the sash at any height, and also to lock it when closed without the use of notches. As shown applied on lower sash, 7, the arms of the fastener project upward, so that the fastener acts as a lock, the short end wedging tightly in groove 8. By releasing arm 3 from stop 12 the arm 2 is drawn back and the sash 7 may be raised, and upon engaging arm 3 again with stop 12 the fastener acts to hold the window at any position to which it may be drawn down without releasing arm 3, the short arm 2 having a yielding bearing and sliding on wall 11 of groove 8.

Instead of using the fastener with a plain sash-groove, I may employ notches of any suitable shape and distance apart. For this purpose I have shown the fastener on upper sash, 6, adapted to engage notches 14 in groove 8. As shown, the upper sash is locked. By releasing arm 3 from engagement with stop 12 the short arm is drawn out of the notch, and the sash may be lowered to any point and held by engaging arm 3 with stop 12 and arm 2 with one of the notches 14.

If it is desired merely to employ the fastener as a holder, the fastener shown on upper sash may only be used on the left-hand side of upper and lower sashes without the notches. The device is changed from fastener and holder to holder by removing its pivot-screw and securing the fastener in reversed position.

By means of the arm 2, pressing against wall 11 in groove 8, the sash is pressed forward in its opposite groove and prevented from rattling.

It will be seen that the fastener is simple in construction and not likely to get out of order. The sash is cut very little, and the fastener is out of the way. The bearing end of presser-arm being in the sash-groove, avoids marring or disfiguring the face of sash-frame, and the device is very effective in operation.

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

1. In a combined sash fastener and holder, 5 the combination, with a grooved window-frame, of a window-sash having a stop and a spring sash fastener and holder pivoted on the sash, and consisting of a wire bent to form a spring-coil and a short arm projecting into the 10 window-frame groove, and a long arm adapted to be thrown into and out of engagement with the stop on the window-sash, substantially as described.

2. In a combined sash fastener and holder, the combination, with a window-frame having 15 sash-groove 8 with notches 14, of sash 7, having stop 12, recess 5, and a spring-fastener pivoted therein, consisting of a wire formed with spring-coil 1, mounted on screw 4, short arm 2, projecting into groove 7, and long arm 3, 20 adapted to engage stop 12, substantially as described.

EZRA S. HUBBARD.

Witnesses:

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