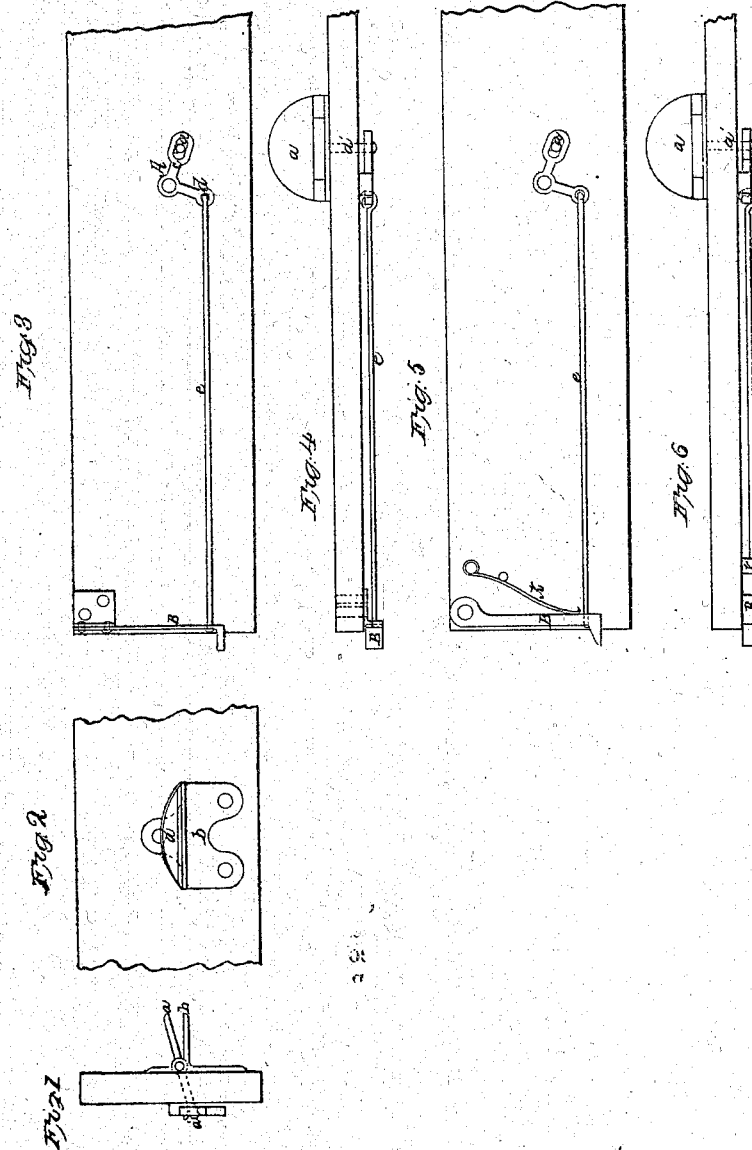


W. TOSHACH.
 SPRING CATCH FOR WINDOW SASHES.

No. 48,463.

Patented June 27, 1865.



Witnesses:
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UNITED STATES PATENT OFFICE.

WM. TOSHACH, OF NEW YORK, N. Y.

SPRING-CATCH FOR WINDOW-SASHES.

Specification forming part of Letters Patent No. **45,463**, dated June 27, 1865.

To all whom it may concern:

Be it known that I, WILLIAM TOSHACH, of the city, county, and State of New York, have invented a new and useful Improvement in Window-Fasteners; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is an end view of a portion of a window-sash with my improvement attached thereto. Fig. 2 is a front view, Fig. 3 a rear elevation, and Fig. 4 a plan, of the same. Figs. 5 and 6 illustrate one modification of my invention, having the spring actuating the catch detached therefrom.

Similar letters indicate like parts in all of the figures.

All travelers upon railway-cars have experienced the difficulty often attendant upon the unfastening of the ordinary catches in common use on car-windows and the annoyance resulting therefrom, while the railway companies have on their part felt the disadvantages of such catches in the frequent breakage of the windows and fastenings consequent upon their imperfections. Attempts have been made to overcome these objections by the use of split or divided knobs whose divisions are hinged together, so as to form levers to disengage the catches; but in all such which have come under my observation the levers forming the knob traversed in a horizontal plane, so that the act of lifting the window by means of the knob would not operate to disengage the fastenings, a pinching pressure thereon in a horizontal plane being necessary. To this movement (in itself very awkward) the fingers of weak persons are often unequal, and there are other evident objections to the device.

It is the object of my invention to overcome these difficulties and to so arrange the window-catches and the window-knob in combination with each other as that the simple pressure upon the knob actually necessary to raise the window will in itself suffice and operate to unfasten it; and it consists in the combination of an angular lever with a divided window-knob and with the window-catches in such a manner as to attain the desired result.

The knob by which the window is to be lifted, although made in the usual convenient form exterior, is yet divided into two pieces, *a* and *b*, of which one, *b*, is rigidly secured to the window-sash in the center thereof, and the other,

a, is hinged to the first upon its upper rear edge so as to close down neatly thereon, and thus complete the knob.

From the inner edge of the hinged piece *a* of the knob an arm, *a'*, projects inwardly through a perforation in the sash so as to engage with a slot cut in one arm, *c*, of an angular lever, *A*, pivoted on the opposite side thereof or within a recess cut therein to receive it. The other arm, *d*, of this lever *A* is connected by a rod or wire, *e*, with the free end of a spring-catch, *B*, secured upon the side edge of the sash, and which locks in the usual manner into a suitable recess in the window-frame. The arm *c* of the lever *A* is thrown up by the movement of the hinged piece *a* of the window-knob, and the pressure naturally and necessarily exerted upon this knob to raise the window is thus conveniently made to release it from its fastening by withdrawing the catch *B*. This catch *B* may be of any convenient form, that represented in Figs. 1 to 4 of the drawings being simply a straight metallic spring, whose lower and free end is so bent as to form the catch. Figs. 5 and 6 illustrate a catch, made of a simple hook, pivoted at its upper end, and pressed against the window-frame by a separate spring, *K*. Other forms will readily suggest themselves, and all varieties of springs may be applied in this connection.

I contemplate using my invention in combination with double catches placed on both sides of the sash, operating both by the same lever and knob.

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

The arrangement in or upon a window-sash, in combination therewith and with the arms *c* and *d* of an angular lever, *A*, of a spring-actuated window-catch, *B*, and a hinged lever and window knob *a b*, as described, in such a manner as that pressure exerted upon the knob to raise the sash will also disengage its fastenings, all substantially in the manner herein set forth.

The foregoing specification of my improvement in spring-catches for window-sashes signed by me this 28th day of March, A. D. 1865.

WILL M. TOSHACH.

In presence of—

CURREN DINSMORE,
ALBERT L. BUTLER.