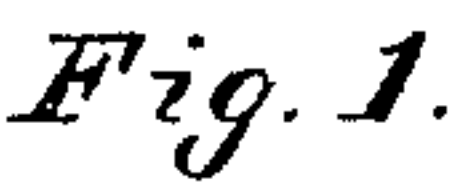


H. M. GOODMAN.  
SASH FASTENER.

Patented May 27, 1890.



Villette Anderson,  
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INVENTOR  
Henry M. Goodman  
by E. W. Anderson  
his Attorney



# UNITED STATES PATENT OFFICE.

HENRY M. GOODMAN, OF LOUISVILLE, KENTUCKY, ASSIGNOR OF ONE-FOURTH  
TO ALBERTO BAKER, OF SAME PLACE.

## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 429,091, dated May 27, 1890.

Application filed December 23, 1889. Serial No. 334,640. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY M. GOODMAN, a citizen of the United States, and a resident of Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Combined Sash Locks and Lifters; and I do 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is partly a front view and partly a vertical section. Fig. 2 is a vertical section taken where the broken line  $x x$  is marked on Fig. 1.

This invention has relation to combined window-sash lifters and locks; and it consists in the novel construction and combination of parts, as hereinafter set forth.

The object of the invention is to facilitate the lifting and unlocking of window-sashes in their frames by means of a handle or lift, and to lock the sash at the desired point by means of the same handle, as more fully described farther on.

In the accompanying drawings, the letter A designates the bottom rail of the sash, at or about the center of which rail is secured an escutcheon or seat B, in which is hung in suitable bearings and parallel with the sash-rail a handle or lift C, having journals or extensions D D'. The journal D, which is longer than the other, connects internally with a bolt V by means of its extremity, which is threaded or provided with a cam  $d$  to engage the internally-threaded cavity  $d'$  of the said main bolt. At the opposite extremity the main bolt is also provided with a cavity, which is closed by a cap  $b$ , which is centrally perforated to receive the horizontal shaft of a latch bolt or rod G. This latch-rod is provided within the cavity mentioned with a head  $c$  to secure it in position, and near its outer end with a collar  $e$ . Between the latter and the cap  $b$  a spiral or coiled spring is drawn around the latch-rod to permit the retraction of the lat-

ter within the main bolt as the sash is raised, and also to preserve its proper horizontal relative position with said main bolt. This coiled spring on the latch-bolt also causes the latter to shoot into the sockets  $x$  of the window-frame as they are respectively reached in raising and lowering the sash.

The journal or extension D' of the handle is controlled by a suitable spring  $g$ , the object of which is to return and secure the said handle to its seat in its closed or normal position after the act of raising or lowering the sash has ceased, as shown. As the handle or lift is raised from its bed in the escutcheon, the cam or thread on the longer extension D engages the internally-threaded end of the main bolt, and the latter, with all of its parts, is withdrawn from engagement with the sockets  $x$  in the window-frame.

It is obvious that when the movement of the handle is reversed the bolt will cause its end latch to engage the sockets in the window-frame and suspend the sash at the height selected.

What I claim as new is—

1. A sash-pull having a lateral extension having at its extremity a thread or cam to engage the adjacent threaded cavity of a bolt provided at the opposite end with a cavity in which is operated an auxiliary short bolt with its spring, substantially as shown and described.

2. In a sash-lock, the main bolt having an auxiliary latch-bolt, constructed as described and working in the interior of the former at one end by means of its surrounding spring, in combination with a lift or pull hung by journals in suitable bearings on the bottom rail, one of said journals being extended to engage the threaded cavity of the main bolt, and the other or shorter end being controlled by a suitable spring for returning the pull or lift to its normal closed position, substantially as shown and described.

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

H. M. GOODMAN.

Witnesses:

GEO. C. STAUBER,  
S. P. WALKER.