

J. L. DEVOL & J. M. OKEY.

Improvement in Sash-Holders.

No. 140,898.

Patented July 15, 1873.

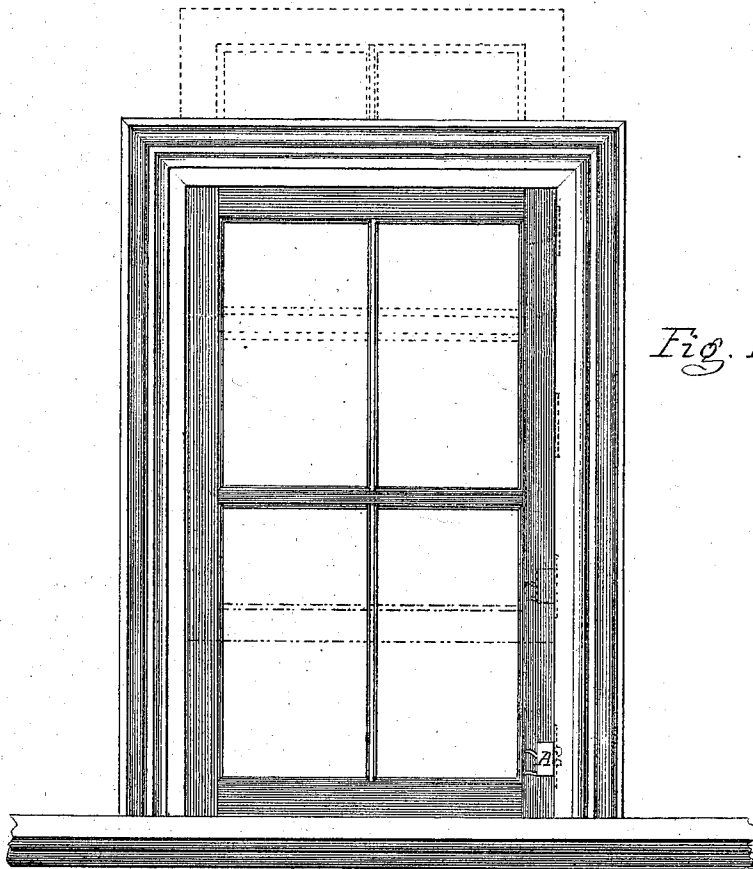


Fig. 1.

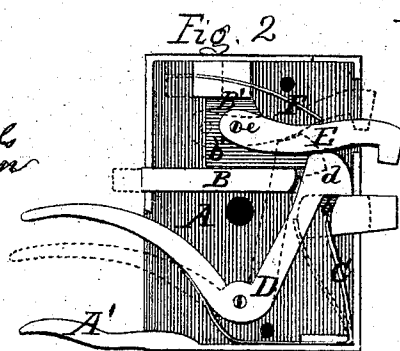


Fig. 2.

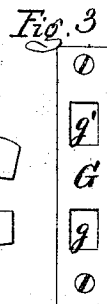


Fig. 3.

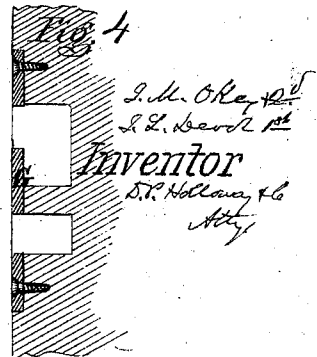


Fig. 4.

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UNITED STATES PATENT OFFICE

JONATHAN L. DEVOL AND JAMES M. OKEY, OF PARKERSBURG, WEST VA.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **140,898**, dated July 15, 1873; application filed July 1, 1873.

To all whom it may concern:

Be it known that we, JONATHAN L. DEVOL and JAS. M. OKEY, of Parkersburg, in the county of Wood and State of West Virginia, have invented a certain Improvement in Sash-Locks, of which the following is a specification:

Our invention consists in an improvement upon the sash-lock now in general use upon railroad cars, intended to prevent the unlocking of the spring-bolt by the jarring of the cars. To this end a spring-hook is combined with the bolt and operating-lever in such a manner that as the bolt enters the keeper in the jam the hook at the same time enters another aperture in the keeper, and, hooking over the edge thereof, positively prevents any horizontal motion of the bolt sufficient to release it until the hook is first lifted by the lever, the terminal movement of which will then withdraw the bolt to allow the window to be raised or lowered.

Figure 1 represents a window to which our improved sash-lock has been applied. Figs. 2, 3, and 4 are views on a larger scale illustrating fully the construction of the lock and keeper.

The same letters of reference are employed in all the figures in the designation of identical parts.

A refers to the lock-case, B to the bolt, which is projected by the action of the spring C and D to the operating-lever, by which the bolt is retracted into the case, the latter being constructed with the ordinary fixed thumb-piece A' beneath the protruding arm of the bell-crank lever D. The bolt is guided in apertures in the edges of the lock-case, and is constructed on its upper side with a plate or projection, B', recessed at b' for the reception of the pivoted end of a hook, E, which is pivoted to this plate at e. The inner arm of the lever D, which is, near its end, fitted in a recess, b, in the bolt, terminates in a cam, d, with which the hook E is kept in contact by the spring F.

The form of the cam d is such that, in shooting the bolt into the aperture g of the keeper G it will hold the barb of the hook above the

lower edge of the aperture g' of the keeper until the barb has passed through the plate, when the hook is allowed to descend and catch behind the keeper, being actuated to do so and firmly held down by the spring F.

In retracting the bolt the hook is first lifted by the cam d to clear the lower edge of the aperture g' in the keeper and the terminal movement of the lever then draws in the bolt together with the hook, which is attached to it as stated.

Hook-formed cams bearing against the surface of the casing have heretofore been employed as supporters, in combination with a lock and lever; but our invention is distinguished from all former devices in this, that the hook engaged with or attached to the bolt is made to engage the frame of the window, entering a recess formed for the purpose, and thus securely locks the bolt when projected, and prevents its retraction until the hook has been first disengaged from the frame.

We do not, however, wish to be understood as limiting our claim to the precise arrangement of parts as set forth, for it is obvious that they may be modified without departing from the principle of our invention; as, for instance, by connecting the bolt and hook by stud and recess instead of by a pin, or by making the point of the hook lock into the end of the bolt.

What we claim, and desire to secure by Letters Patent, is—

The bolt B, lever D, and hook E, when combined and arranged in such relation to one another and to the recess or recesses in which the bolt and hook are received, that the bolt cannot be retracted until the hook has been first disengaged, substantially in the manner set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

J. L. DEVOL.
J. M. OKEY.

Witnesses:

GEORGE LOOMIS,
F. E. DEVOL.