

No. 747,657.

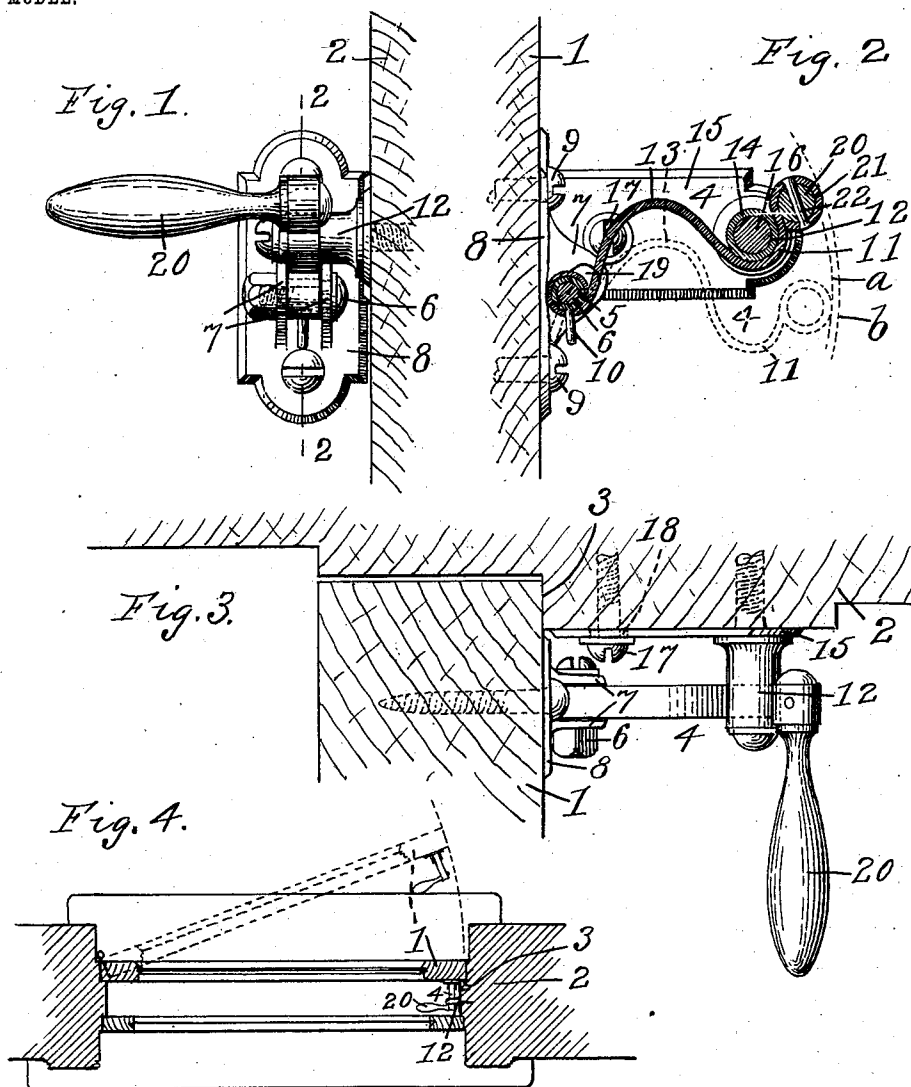
PATENTED DEC. 22, 1903.

R. C. SPENCER, JR.

LATCH.

APPLICATION FILED MAR. 23, 1903.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT C. SPENCER, JR., OF RIVER FOREST, ILLINOIS.

LATCH.

SPECIFICATION forming part of Letters Patent No. 747,657, dated December 22, 1903.

Application filed March 23, 1903. Serial No. 149,049. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. SPENCER, JR., a citizen of the United States; and a resident of River Forest, in the county of Cook and State of Illinois, have invented an Improved Latch, of which the following is a specification.

This invention relates to latches.

Among the objects of the invention are to provide a latch for casement-windows and the like, which will be of simple and cheap construction and efficient in its operation, which will afford a convenient handle for operating the window, and which will be neat and attractive in appearance.

A latch of my invention consists of the various features, combinations of features, and details of construction hereinafter described and claimed.

In the accompanying drawings, a latch of my invention is fully illustrated, said latch being shown as applied to a casement-window.

Figure 1 is a front view of a latch of my invention in locked position. Fig. 2 is a sectional view thereof on the line 2 2 of Fig. 1. Fig. 3 is a top plan view thereof, and Fig. 4 is a section of a casement-window equipped with a latch of my invention.

Referring now to the drawings, 1 designates the sash, and 2 the stile, of the window-casing of a casement-window, said stile being provided with a shoulder 3, against which the inner face of the sash 1 rests when the window is closed. The foregoing parts may be of any usual or desired construction.

Pivoted to the inside of the window-sash 1, adjacent to the free or swinging edge thereof, is a hook or catch 4, which is preferably made of resilient material, as spring-steel or brass. As shown, the pivot-support for said hook or catch 4 is formed by a sleeve 5, through which passes a bolt 6, secured in lugs 7 on a plate 8, secured to said window-sash by means of screws 9.

Formed adjacent to the outer or free end of the hook or catch 4 is a curved portion 11, which is adapted to engage a stud 12, which projects laterally from the side of the window-casing 2. The hook or catch 4 is adapted for manual engagement and disengagement with the stud 12 and in the preferable

construction shown engages said stud from below. As shown also, the downward pivotal movement of said hook or catch 4 is limited by a pin 10, secured in the pivoted end of said hook or catch, the end of which comes into contact with the plate 8 when the free end of said hook or catch is in position to clear the stud 12. The stud 12 is preferably located at such a distance from the shoulder 3 on the window-casing that the hook or catch 4 can only be engaged therewith by springing said hook or latch away from its pivotal point. In the preferable construction shown the hook or catch 4 is bent or bowed laterally between the curved end portion 11 and the pivoted end thereof, as shown at 13, to provide for springing the free end thereof outwardly from its pivotal point to effect engagement of said hook or catch with said stud 12. The curved portion 11 of said hook or catch is of such length also that it will engage the stud 12 above a horizontal line therethrough, thus preventing accidental disengagement of said hook or catch from said stud.

In Fig. 2 of the drawings the hook or catch 4 is shown in full lines in engagement with the stud 12 and in dotted lines in its normal disengaged position. The distance between the curved dotted lines *a* and *b* represents the distance which the hook or catch 4 will have to be sprung outwardly to effect engagement thereof with the stud 12.

As shown, the stud 12 consists of a sleeve 14, the inner end of which rests on a plate 15, secured to the stile of the window-casing, said sleeve being secured in position by a screw 16, which passes through the sleeve 14 and plate 15 into the window-casing. The screw 17, which secures the other end of the plate 15 in position, passes through an elongated slot 18 in said plate 15, thus making provision for moving said plate and stud toward and from the shoulder 3 on the window-casing without removing the screw 17.

To provide for adjusting the pivotal point of the hook or catch 4 relatively to the stud 12, the bolt 6 of the pivot-support of said hook or catch is secured in slots 19, formed in the lugs 7, and the sleeve 5 is longer than the width of said hook or catch where it engages said sleeve, the relation being such that set-

ting up or tightening said bolt 6 will operate to clamp the ends of said sleeve between said lugs 7. As shown, said slots 19 are preferably inclined, thus reducing the liability of
 5 said clamping-bolt 6 and sleeve 5 to slip when operating said latch.

The hook or catch 4 is provided adjacent to its free end with a handle 20, which affords convenient means for operating said hook
 10 and for opening and closing said window. As shown, the end of the hook or catch 4 is bent to form a circular loop 21, in which the end of the handle 20 is secured by means of a pin 22.

While I have herein shown and described
 15 a latch of my invention as applied to a case-ment-window, it may obviously be used in many other applications, and I do not, therefore, desire to limit myself to the particular application shown and described.

20 I claim—

1. A latch comprising a stud or projection, and a manually-operated, pivoted hook for engagement with said stud or projection from below, said hook being resilient in the direc-
 25 tion of its length, substantially as described.

2. A latch comprising a stud or projection and a manually-operated, pivoted hook for engagement therewith, said hook being resilient in the direction of its length, and a grip or handle on said hook, substantially as de-
 30 scribed.

3. A latch comprising a stud or projection and a pivoted hook for engagement there- with, said stud or projection and the pivotal point of said hook being relatively adjust-
 35 able, substantially as described.

4. A latch comprising a stud or projection and a manually-operated, pivoted hook for engagement therewith, the pivotal connec- tion of said hook comprising lugs provided
 40 with slots, and a pivot-stud adjustably se- cured in said slots, substantially as described.

In testimony that I claim the foregoing as my invention I affix my signature, in presence of two subscribing witnesses, this 14th day of
 45 March, A. D. 1903.

ROBERT C. SPENCER, JR.

Witnesses:

JOHN A. MCKEOWN,
 M. S. SOMERVILLE.