

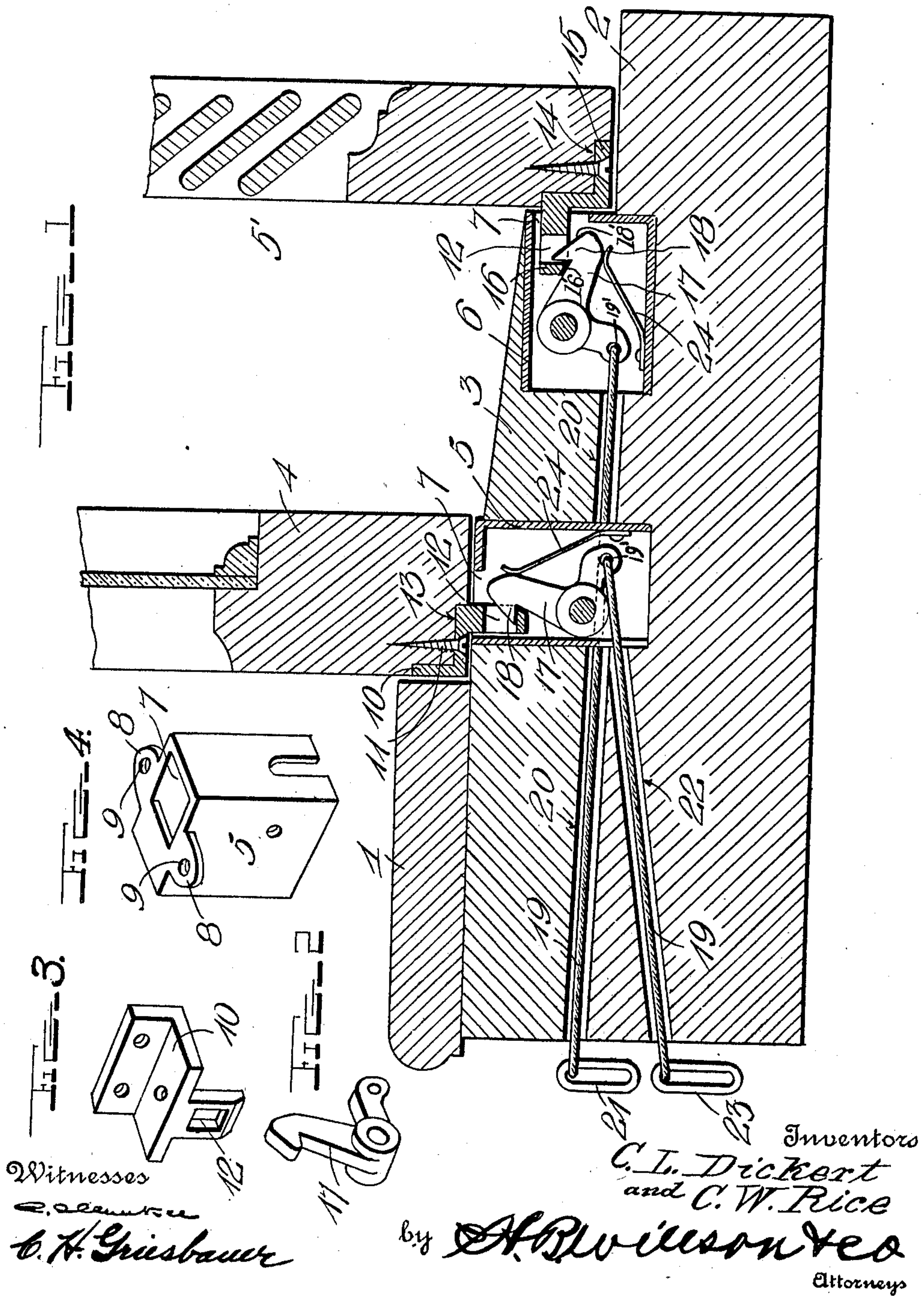
C. L. DICKERT & C. W. RICE.

LATCH.

APPLICATION FILED SEPT. 29, 1909. RENEWED MAR. 30, 1911.

991,959.

Patented May 9, 1911.





# UNITED STATES PATENT OFFICE.

CURTIS L. DICKERT AND CHARLES W. RICE, OF MACON, GEORGIA.

## LATCH.

991,959.

Specification of Letters Patent.

Patented May 9, 1911.

Application filed September 29, 1909, Serial No. 520,148. Renewed March 30, 1911. Serial No. 618,003.

*To all whom it may concern:*

Be it known that we, CURTIS L. DICKERT and CHARLES W. RICE, citizens of the United States, residing at Macon, in the county of Bibb and State of Georgia, have invented certain new and useful Improvements in Latches; and we 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.

This invention relates to latches and particularly to devices of this character which are adapted for locking window sashes or window blinds.

One object of the invention is to provide a simple, cheap and efficient lock of this character which may be conveniently operated from the inside of the room and whereby the blinds may be unlocked without opening the window.

A further object of the invention is the provision of a device of this character which is substantially concealed by the sill of the window-frame and thereby protected from the weather and at the same time protected from unauthorized manipulation.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a detail sectional view through a window sill showing the application of the device to a sash and to a window blind; Fig. 2 is a detail perspective view of one of the latching dogs; Fig. 3 is a detail perspective view of one of the keeper plates employed; Fig. 4 is a perspective view of the dog casing.

Referring more especially to the drawings, 1 represents the inner sill of the window frame, 2 the outer sill thereof and 3 the intermediate shelving piece, upon which the sash 4 is adapted to rest when in lowered position, and against whose outer face the blind 5' is adapted to abut. Embedded in the shelving piece 3, is a pair of latch or dog casings 5 and 6, the former of which is positioned vertically within the shelving piece 3 and the sill 2, and the latter of which is embedded horizontally within the shelving piece 3 and the sill 2, the socket therefor extending inwardly from the

outer blind abutting face. Each of these casings is provided at its upper end with a keeper receiving opening 7 and a pair of attaching ears 8 which extend laterally on opposite sides thereof and are adapted to receive fastening devices through the apertures 9 formed therein for this purpose.

The lower edge of the sash has secured to it a substantially Z-shaped keeper plate 10 having apertures to receive the attaching screws 11 and having one leg of its body formed with a latch or dog receiving opening 12. This Z-shaped member lies within a recess 13 formed in the lower edge of the sash to fit the same and has the leg with the aperture 12 therein projecting downwardly over the edge of the sash, so as to enter the opening 7 in the dog casing 5. The outer blind or the one which is provided with the overlapping bead, as shown at 5', is provided with a recess 14 in which is seated a similar Z-shaped keeper plate 15, having its apertured leg 16 adapted to enter the opening 7 formed in the outer end of the dog casing 6.

Each one of the casings 5 and 6 has pivoted therein a bell crank lever 17 which has upon one arm a bill 18 adapted to engage the opening 12 in the entering legs of the Z-shaped members 12 and 15. The opposite arm of each bell crank lever has connected to it an operating rod 19 by means of apertures 19', the one being connected to the locking dog for the blind passing through a horizontal aperture 20 and being provided with an operating ring or handle 21 at its inner end, while the rod which is connected to the dog for the sash passes through an inclined channel 22 formed in the sill and has upon its inner end the operating ring or handle 23. Each casing has riveted to its inner side a leaf spring 24 which is adapted to press the engaging arm of the dog into engagement with its coacting latching plate so that under normal conditions, the dog will be in position to latch into the opening of the keeper plate.

We wish it to be understood that we provide the bills of the levers with inclined surfaces 18', and further we provide the inner ends of the keepers with inclined surfaces 16', whereby when the ends of the keepers are inserted through the elongated openings 7 in the sides of the casings the inclined surfaces of the keepers will ride



over the inclined surfaces of the bills thereby to more readily insure the bills to engage the openings 12 of the keepers.

Having thus described our invention, what we claim is:

5 A latch comprising a casing with a bell crank lever pivoted therein having on one end a bill provided with an inclined terminal, the other end of said lever having a  
10 perforation, a spring having one end secured to the casing and its other end contacting with the underside of the bill, said casing being also provided with an elongated opening at one side, a Z-shaped keeper  
15 having one of its arms provided with an aperture for the reception of a screw, the other arm of the keeper adapted to be in-

serted through the elongated opening in the side of the casing and provided with a transverse opening, the under surface of said arm of the keeper having an inclined terminal which permits of the inclined terminal of the bill to ride over the same so as to engage the transverse opening in the arm of the keeper, and an operating rod  
25 secured to said perforation of the lever.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

CURTIS L. DICKERT.  
CHARLES W. RICE.

Witnesses:

R. C. SAUDER,  
A. J. ORR.

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