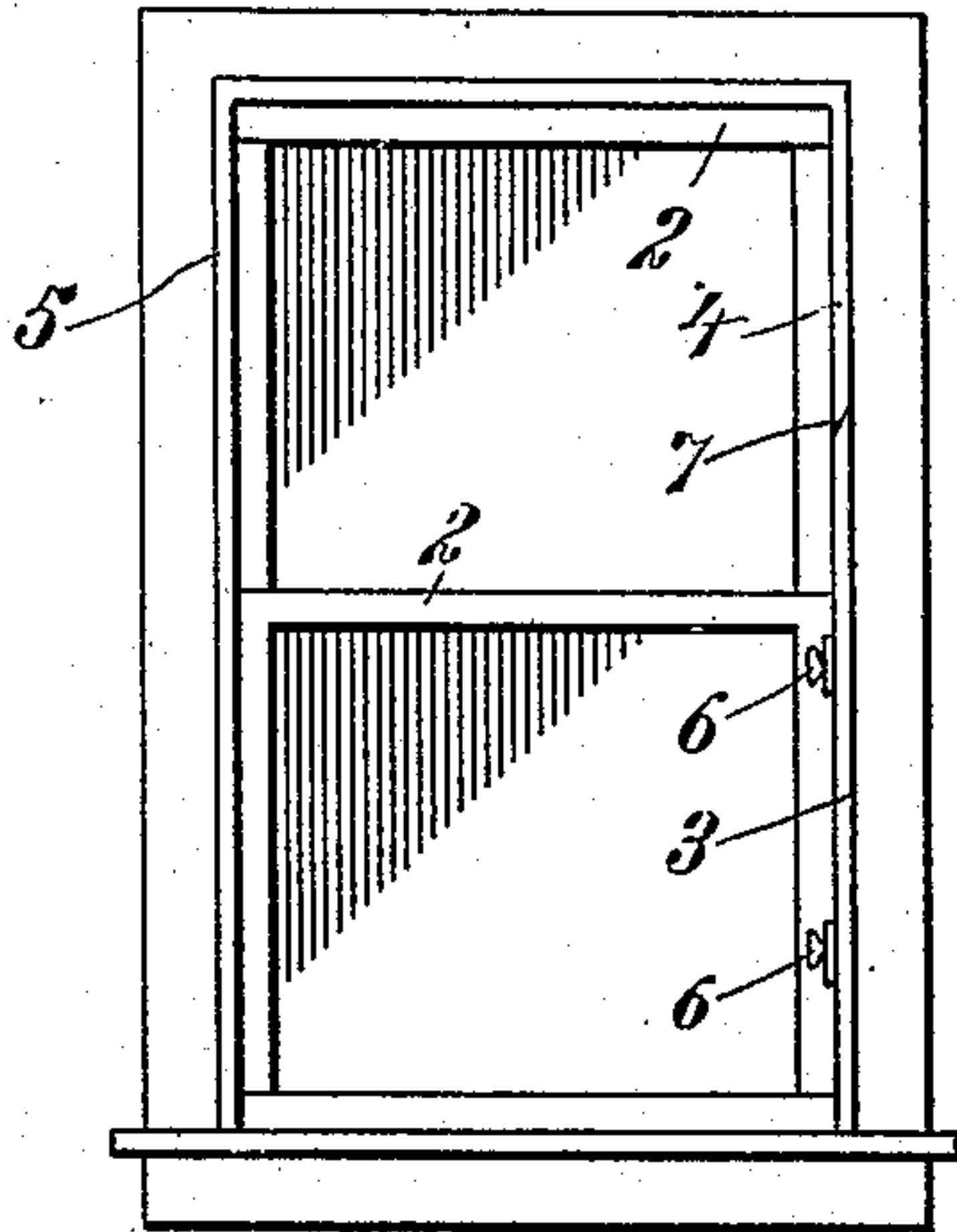


R. F. NICHOLS.  
WINDOW STOP.  
APPLICATION FILED OCT. 31, 1907.

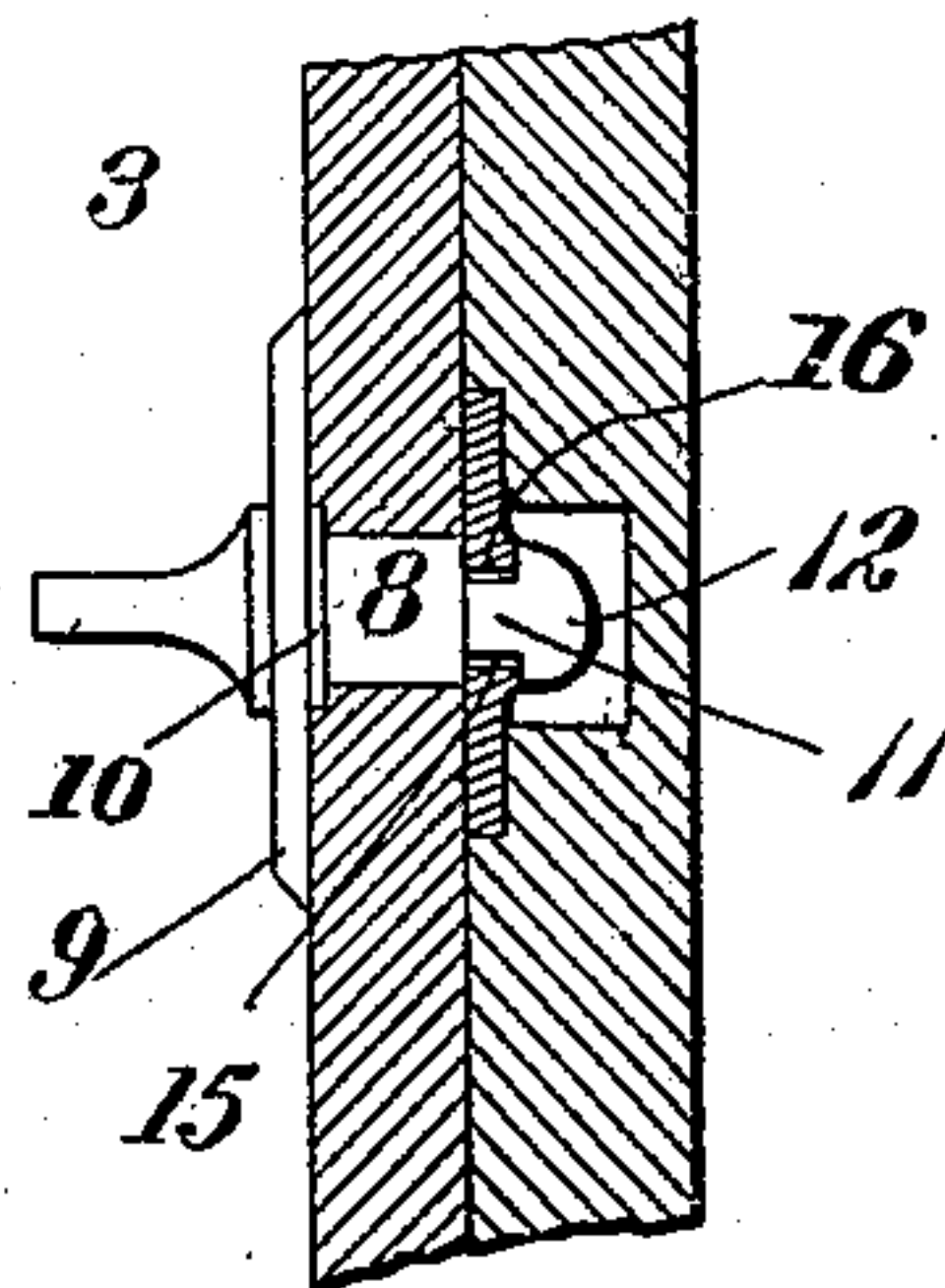
915,877.

Patented Mar. 23, 1909.

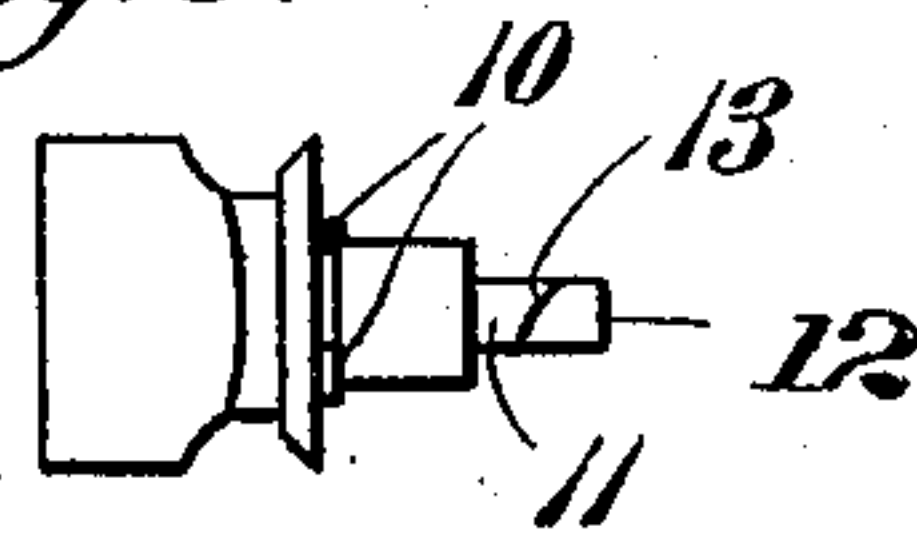
*Fig. 1.*



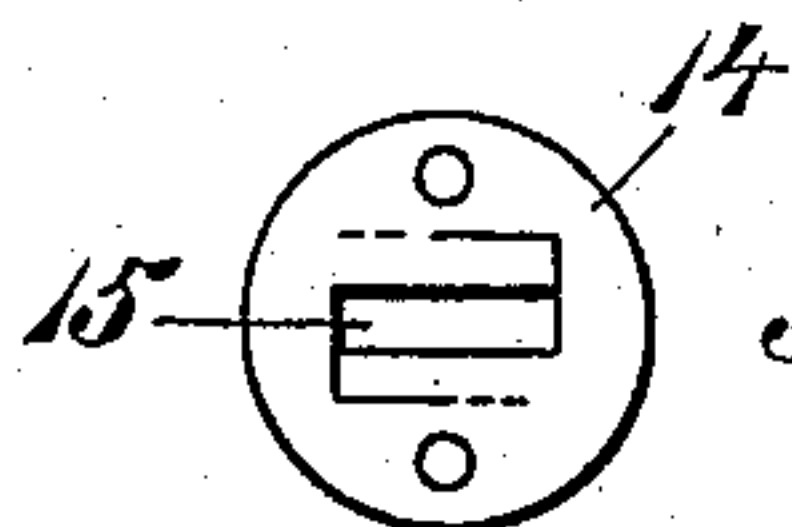
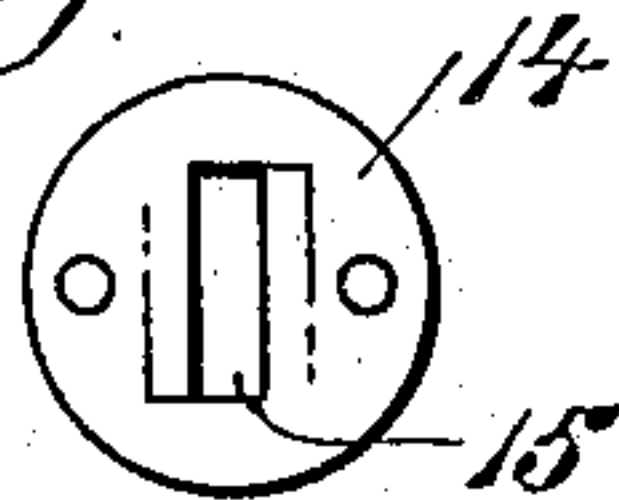
*Fig. 2.*



*Fig. 5.*

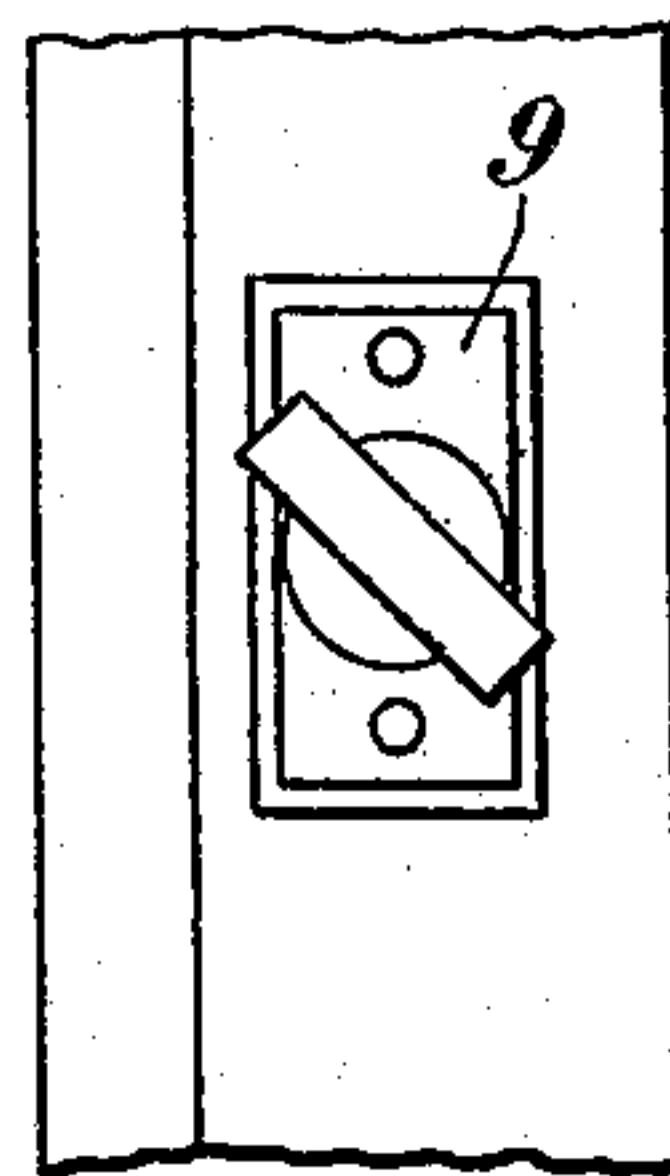


*Fig. 3.*

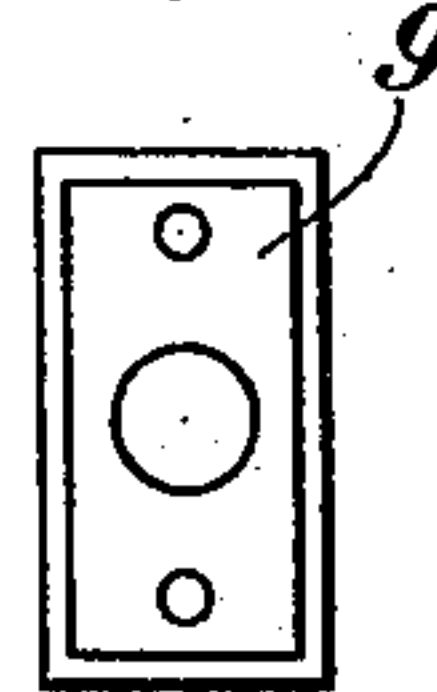


*Fig. 4.*

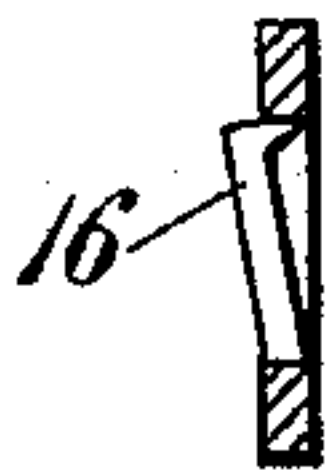
*Fig. 8.*



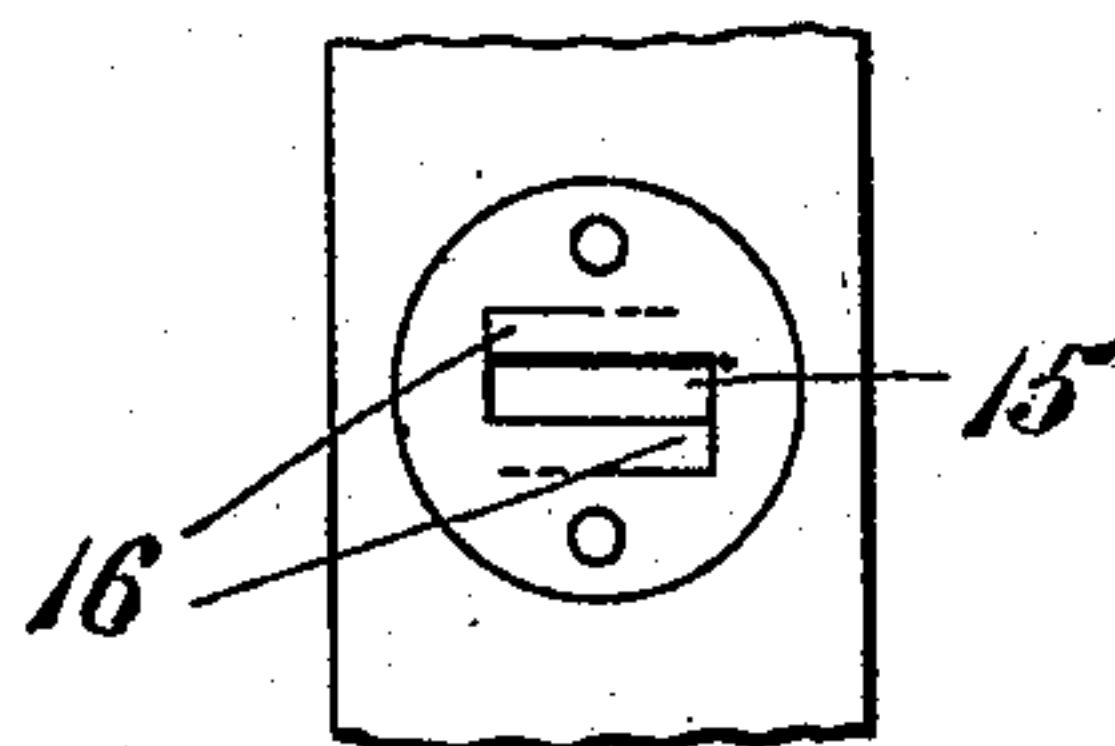
*Fig. 9.*



*Fig. 6.*



*Fig. 7.*



WITNESSES

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BY

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# UNITED STATES PATENT OFFICE.

ROBERT FLEETWOOD NICHOLS, OF OAKLAND, CALIFORNIA.

## WINDOW-STOP.

No. 915,877.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed October 31, 1907. Serial No. 400,045.

*To all whom it may concern:*

Be it known that I, ROBERT FLEETWOOD NICHOLS, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented a new and useful Improvement in Window-Stops, of which the following is a specification in such full and clear terms as will enable those skilled in the art to construct and use the same.

This invention relates to a window stop bead fastener used for the purpose of securing the stop bead adjustably and removably in the proper place in a window frame.

The object of the invention is to produce a device which will secure the stop bead easily and quickly in any desired adjustment with respect to the sash, and which will permit the easy removal of the bead when it is desired to remove the sash from the frame to wash the glass.

In the drawing, in which the same numeral is applied to the same portion throughout, Figure 1 is a view of a window frame and sash with the removable stop and lock applied thereto, Fig. 2 is a vertical section of the window frame showing the stop bead and the locking device, Fig. 3 is a front view of the locking plate, Fig. 4 is a back view of the locking plate, Fig. 5 is a view of the lock, showing it in the position in which it is when ready to release the stop bead, Fig. 6 is a sectional view of the locking plate on the dotted line Fig. 3, Fig. 7 is a front view of the locking plate in its place on the frame of a window, Fig. 8 shows the lock and the stop bead in front elevation, and Fig. 9 shows the plate which holds the lock in its place.

The device is in two parts, one a plate which is permanently secured to the window frame, and the other the lock and plate which secures it permanently to the stop bead, the lock being passed through a hole which is bored in the stop bead.

The window frame 1 holds the sashes 2, 2 in place, the stops 3, 4 and 5 holding the sash from falling out toward the front. The stop bead 3 is removably held in its place by means of the locks 6, 6, and in order that the end may not open where it meets the stop bead 4 it is cut on the bevel shown at 7, the top bead being firmly nailed in place.

The lock has the cylindrical shank 8 and is held in place in the plate 9 by having the wire 10 pressed in a groove in the shank.

Integral with the shank 8 is a smaller shank 11 on which is the integral flat head 12, note Figs. 2 and 5, the rear edges 13 of said flat head being at a right angle with the small shank 11, and the said edges are reversely beveled to the same extent as the reverse cams, or inclines, 16 on the locking plate 14, the object of said bevels being to prevent the lock from wearing the locking plate, as would be the case if the lock did not have the same bevel as the cam faces of the locking plate.

The locking plate 14 has two screw holes to secure it to the window frame, and in order to permit the adjustment of the stop bead it has the slot 15 cut in it. The metal on each side of the slot in the said plate is pressed up as shown at 16 to form a pair of cam faces, or reverse inclines, as indicated on Fig. 4, the cams, or inclines, running out at the end of the dotted lines and being highest at the end of the full lines. The result of this construction is that the shank may be placed in the slot at any place and locked at any place, since the distance between the inner edges of the flat head 12 is such as to cause the lock to be tight when the flat head is turned so it will reach the two high parts of the cams 16.

It will be noted that the plate 14 is circular in shape, the object being to sink the same in the window frame with as little trouble as possible, a single hole being bored to place the plate in, a smaller hole being bored to allow the head 12 to move in. It will also be noted that the head 12 is substantially the same in size as the shank 8, thus making it possible to push the lock through the hole bored for the shank, and since the shank completely fills the hole through which it passes it makes it very firm even without the outer plate, but the latter is screwed to the stop bead for the purpose of preventing it from dropping out. It will also be noted that the handle on the lock is arranged in such a position with respect to the locking head 12 that when the stop bead is secured in place the handle is in the most convenient position for the fingers to unlock the same.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is as follows:

In a stop bead lock, the combination of a plate adapted to be sunk in a window frame and having a slot, a pair of reverse cams



struck up on said plate on opposite sides of  
said slot, a shank provided with a thumb-  
piece on one end and having a smaller shank  
on the other end adapted to pass through the  
5 slot in said plate, said smaller shank carrying  
a flat head extending at an angle with the  
thumb piece and having a pair of reverse  
bevels on its inner edges, a bearing plate sur-  
rounding the large shank and adapted to be  
10 secured to a stop bead, and a wire washer

surrounding the shank and holding it to the  
bearing plate.

In testimony whereof I have set my hand  
this 23d day of October A. D. 1907, in the  
presence of the two subscribed witnesses. 15

ROBERT FLEETWOOD NICHOLS.

Witnesses:

FRANK P. MEDINA,  
E. G. MEDINA.