

No. 650,701.

Patented May 29, 1900.

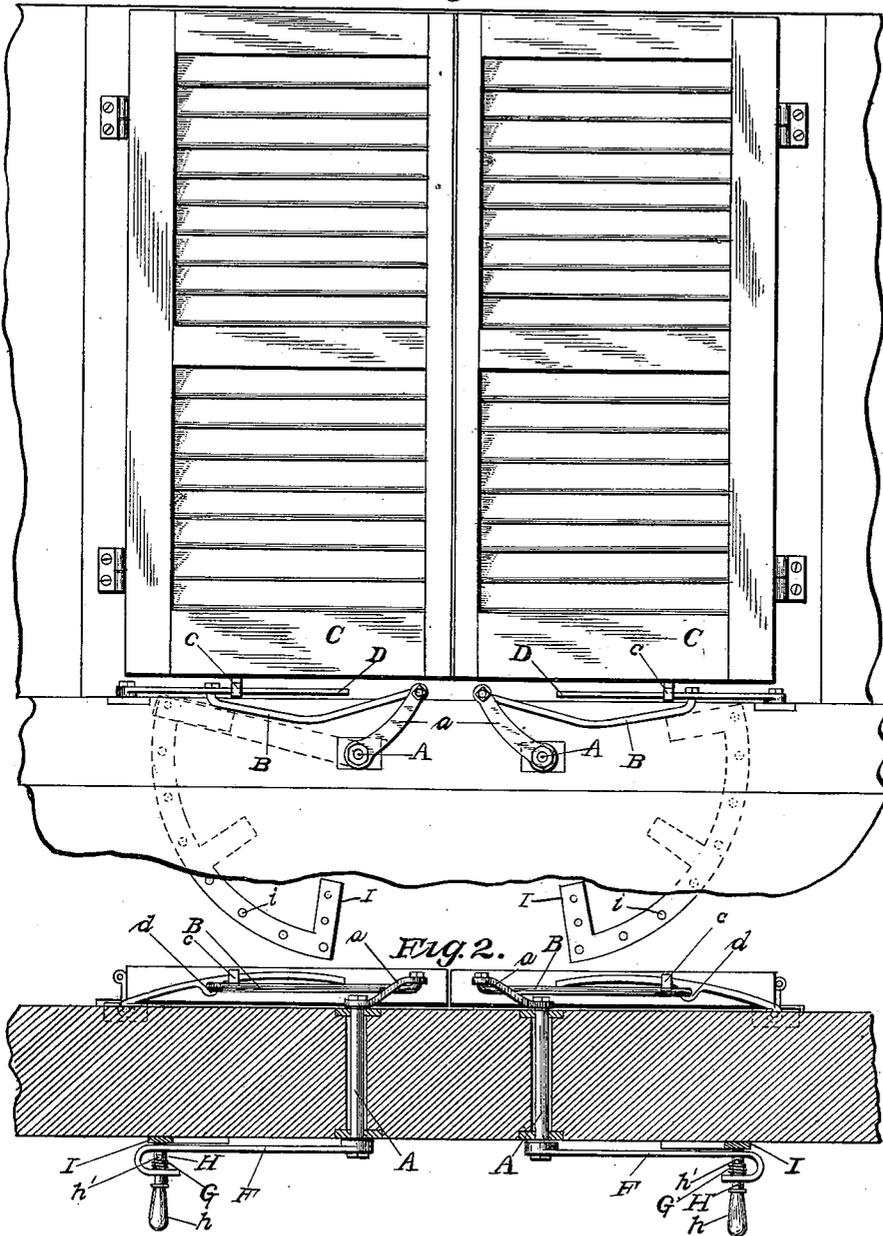
C. S. AMSDEN.  
SHUTTER WORKER.

(Application filed June 17, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.



WITNESSES:  
*J. S. Howell.*  
*H. C. Test.*

INVENTOR  
*Charles S. Amesen*  
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ATTORNEYS.

No. 650,701.

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2 Sheets—Sheet 2.

Fig. 3.

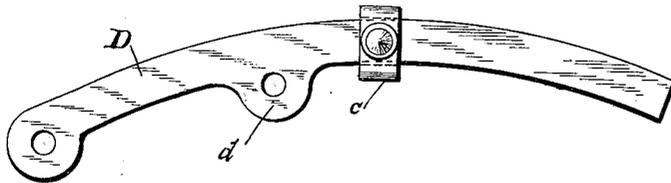


Fig. 4.

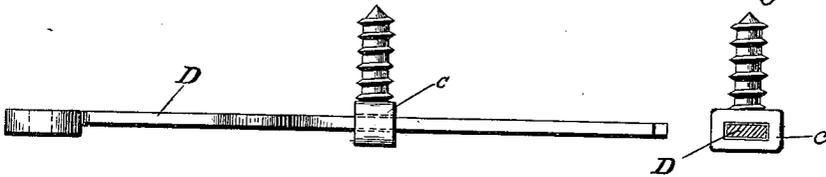


Fig. 5.

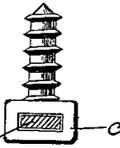
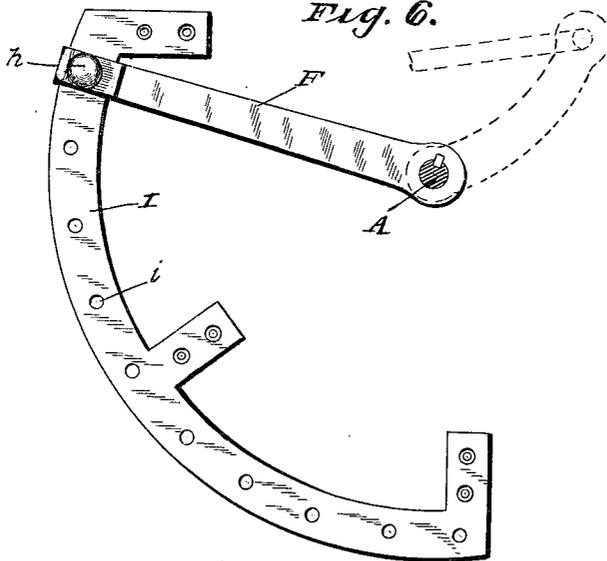


Fig. 6.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

CHARLES S. AMSDEN, OF PRESCOTT, MASSACHUSETTS.

## SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 650,701, dated May 29, 1900.

Application filed June 17, 1899. Serial No. 720,882. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES S. AMSDEN, a citizen of the United States, residing at Prescott, in the county of Hampshire and State of Massachusetts, have invented certain new and useful Improvements in Shutter-Workers; 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 the letters of reference marked thereon, which form a part of this specification.

This invention relates to shutter-workers, and more particularly to that class operated from the inside of the house.

One object of the present invention is to provide a simple, cheap, durable, and easily adjusted and operated device of the character mentioned.

Further, the object of the invention is to provide a device of such construction as will not only serve as an opener and closer, but also as a check or fastener, by means of which the shutter may be opened or closed at any desired angle and which will not easily be moved by wind from a position in which it is placed.

The invention consists of the construction, combination, and arrangement of parts hereinafter to be described, and particularly pointed out in the claim.

I have illustrated the invention in the accompanying drawings, in which similar reference characters relate to similar parts of my invention in all the views.

Figure 1 is a front elevation of the lower portion of a window-shutter with my improvement attached thereto. Fig. 2 is a plan view of the operating parts, the sill being shown in section. Fig. 3 is a plan view of the lever for moving one shutter. Fig. 4 is a side view of the lever, showing the means for connecting it to the shutter. Fig. 5 is a side view of the screw for attaching the lever to the shutter, the lever being shown in section; and Fig. 6 is a side view of the portion of the shutter-worker designed to be located within the house.

In the drawings, A represents a rock-shaft

adapted to pass through a window-sill. The rock-shaft has formed with or rigidly attached to its outer end an arm *a*, having pivotally attached to its outer end a connecting-rod B.

Each shutter C has in its lower face a screw, provided in its lower end with an eye *c*, receiving a lever D, pivoted at one end to the frame of the window approximately in line with the hinges of the blind. The free end of the lever passes through the eye in the screw, and the length of the lever is such that when the parts are arranged as shown the lever will remain in the eye irrespective of the position of the blind.

The lever D has on it an offset *d*, and to this offset is pivoted the connecting-rod B.

The inner end of the rock-shaft has attached to it an arm F, preferably of flat metal, and its outer free end is bent upon itself to form a loop, as shown. Passing through the bent portion of the arm is a pin H, having a handle *h*, for grasping in operating the pin in rotating the rock-shaft. The pin H has on it an offset *h'*, and arranged between this offset and the outer bent end of the arm F is a coil-spring G, the tendency of which is to force the pin inward.

Arranged upon the frame of the window or on a segmental plate I, as shown, are a series of sockets *i*, arranged in the path described by the pin H in the movement of the rock-shaft A, each socket being adapted to receive the pin H when the latter is opposite it.

In the operation of the device the shutter being open the crank-pin H is lifted to bring the pin free of the sockets *i*, and moved upward to any desired position. This movement is communicated through the rock-shaft A and arm *a* to the connecting-rod B, drawing the lever D toward the sill and causing it to slide through the eye on the shutter, bringing the shutter with it. To open the shutter the operation is reversed—the crank is turned in the opposite direction, causing the lever D to push the shutter outward by means of the eye *c*.

Having now particularly described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A shutter-worker comprising a rock-shaft

extending from the inside to the outside of a window-frame, an arm attached to the outer end of the shaft, a lever pivotally attached to a window-frame, a connection between  
5 the arm and the lever, an eye on a shutter adapted to receive the lever and to allow the latter to slide through it, an arm on the inner end of the rock-shaft having its inner end bent upon itself, a pin passing through the  
10 bent portion and having a handle on its outer

end, a spring arranged in the bent portion and bearing on the pin, and a segmental plate having openings receiving the pin, substantially as described.

In testimony whereof I affix my signature 15  
in presence of two witnesses.

CHARLES S. AMSDEN.

Witnesses:

HENRY M. HUMPHREY,  
FREDERICK H. LEE.