

(No Model.)

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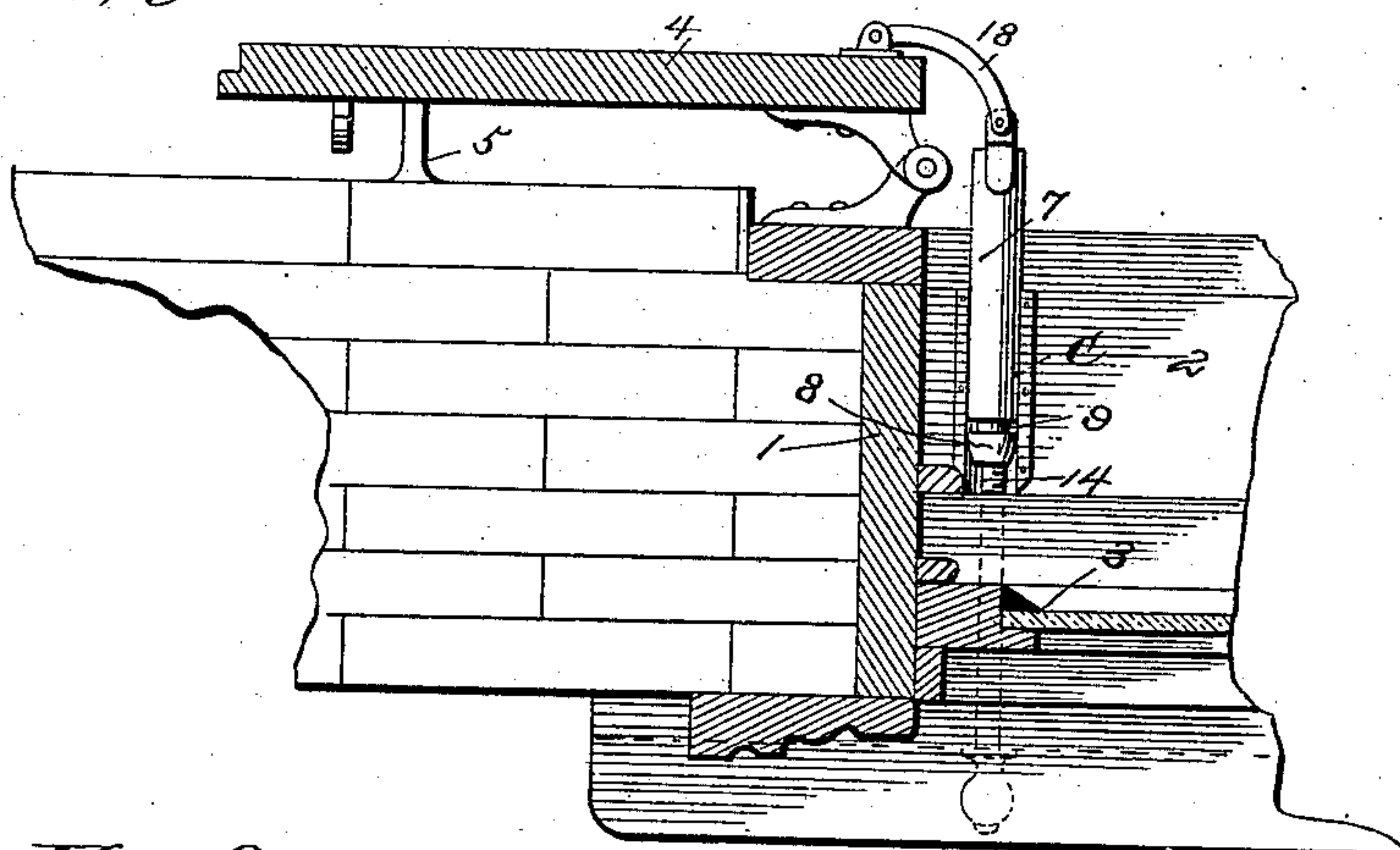
J. K. MCGUKIN.

SHUTTER WORKER.

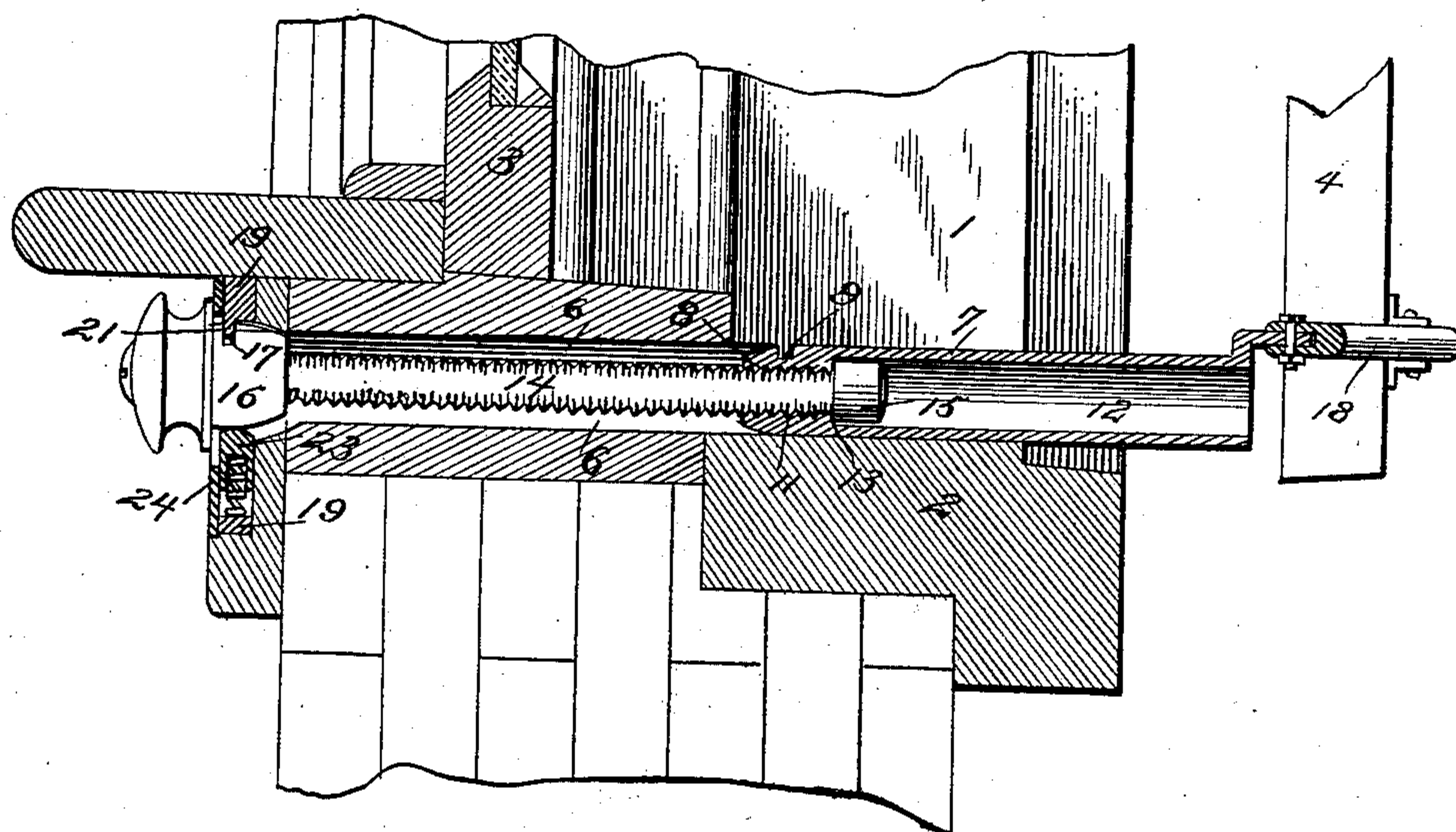
No. 376,539.

Patented Jan. 17, 1888.

*Fig. 1.*



*Fig. 2.*



**WITNESSES:**

W. R. Davis.  
C. Sedgwick.

**INVENTOR:**

INVENTOR:  
*J. K. McKin*  
BY *Munn & Co.*  
ATTORNEYS.

ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

J. K. MCGUKIN.

SHUTTER WORKER.

No. 376,539.

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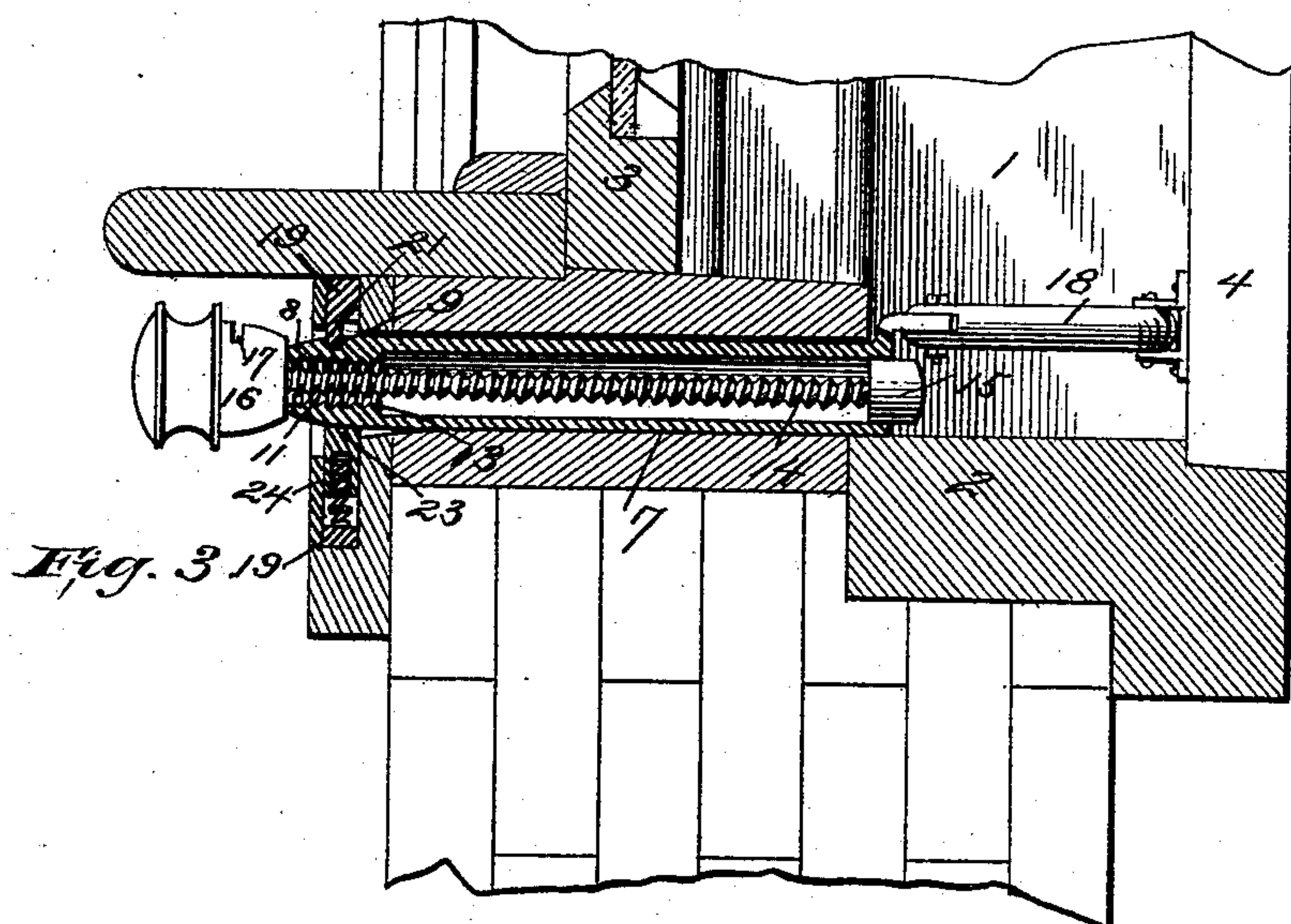


Fig. 3 19

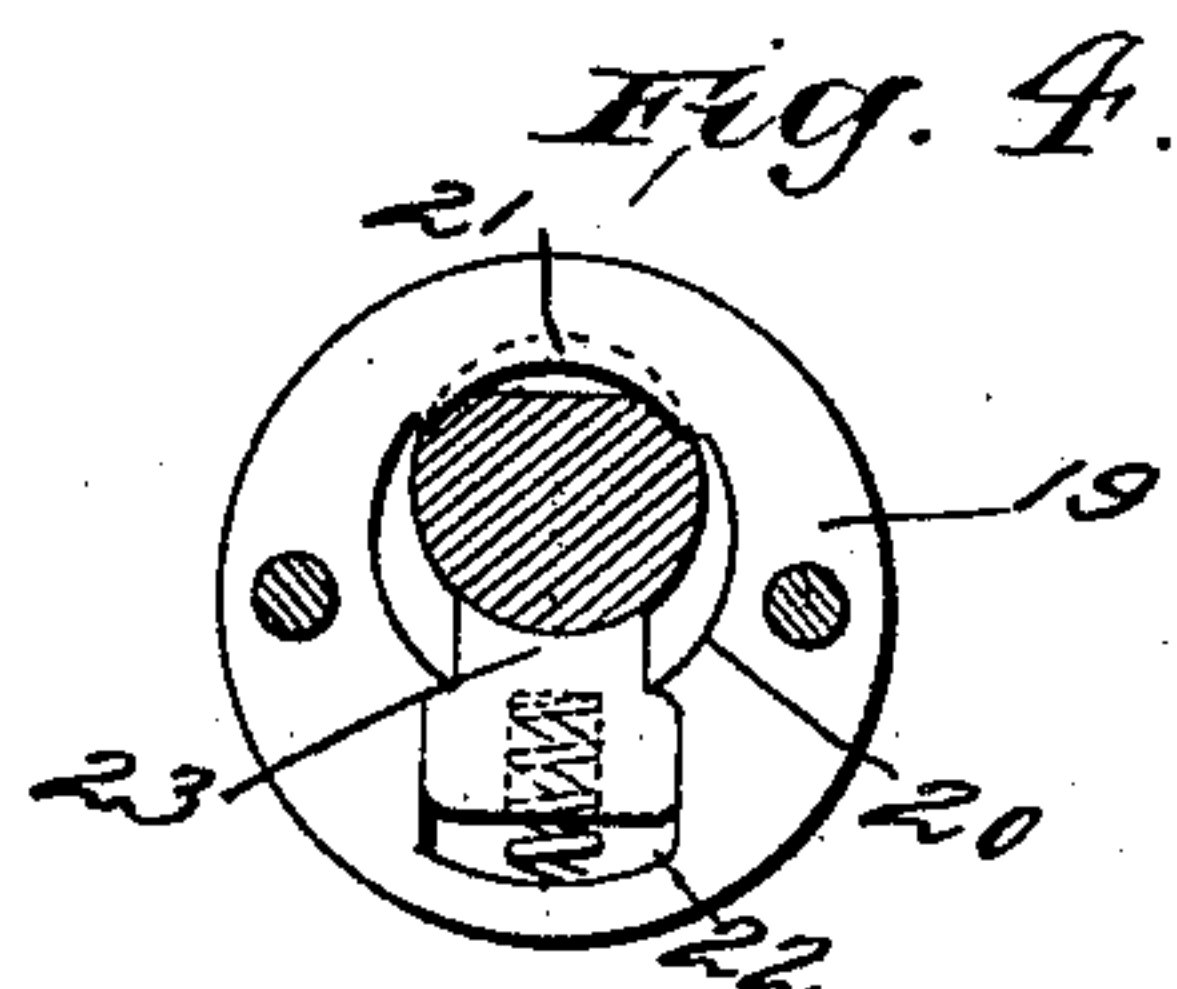


Fig. 4.

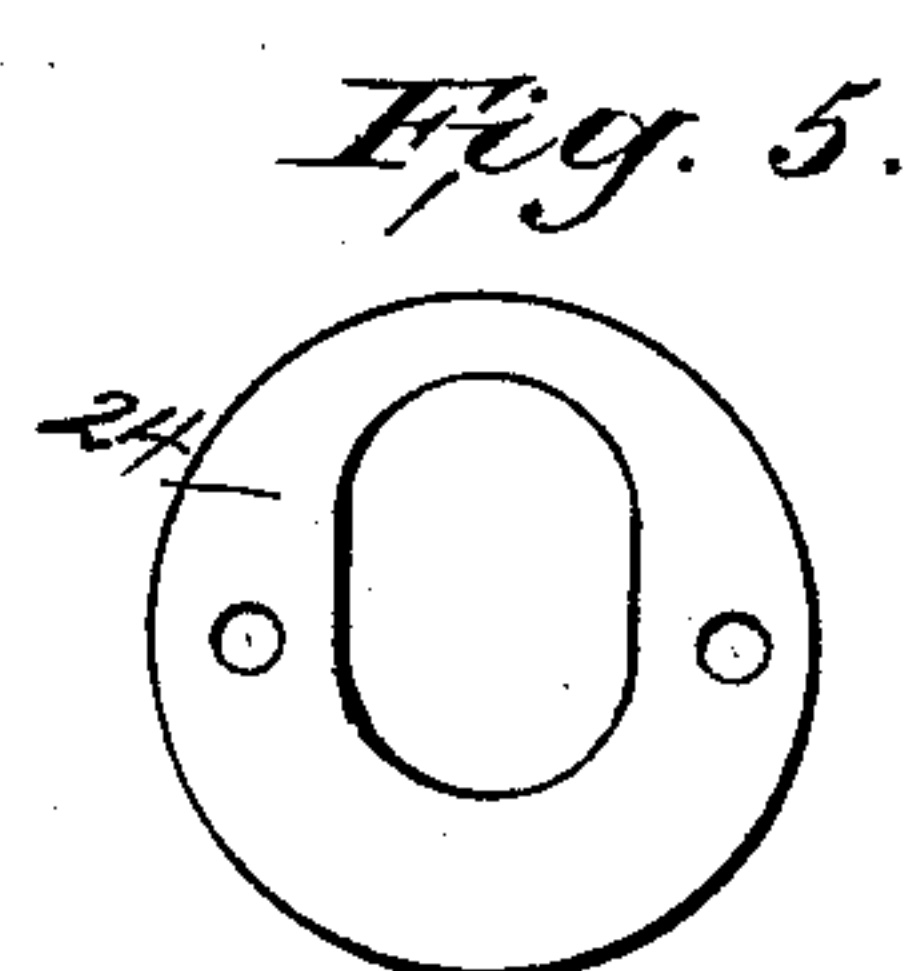


Fig. 5.

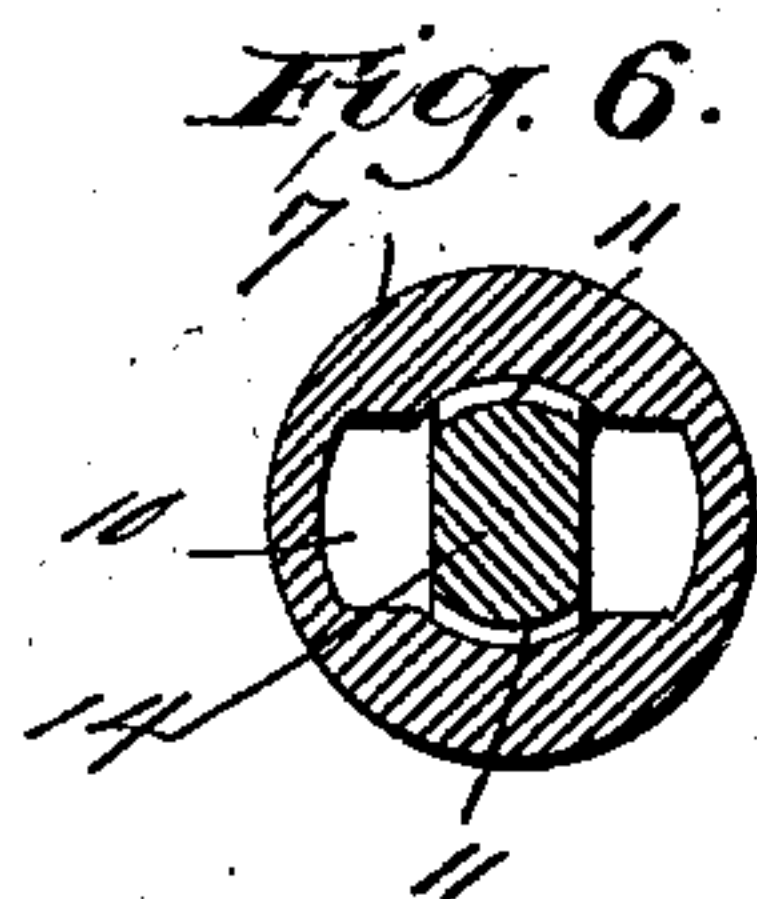


Fig. 6.

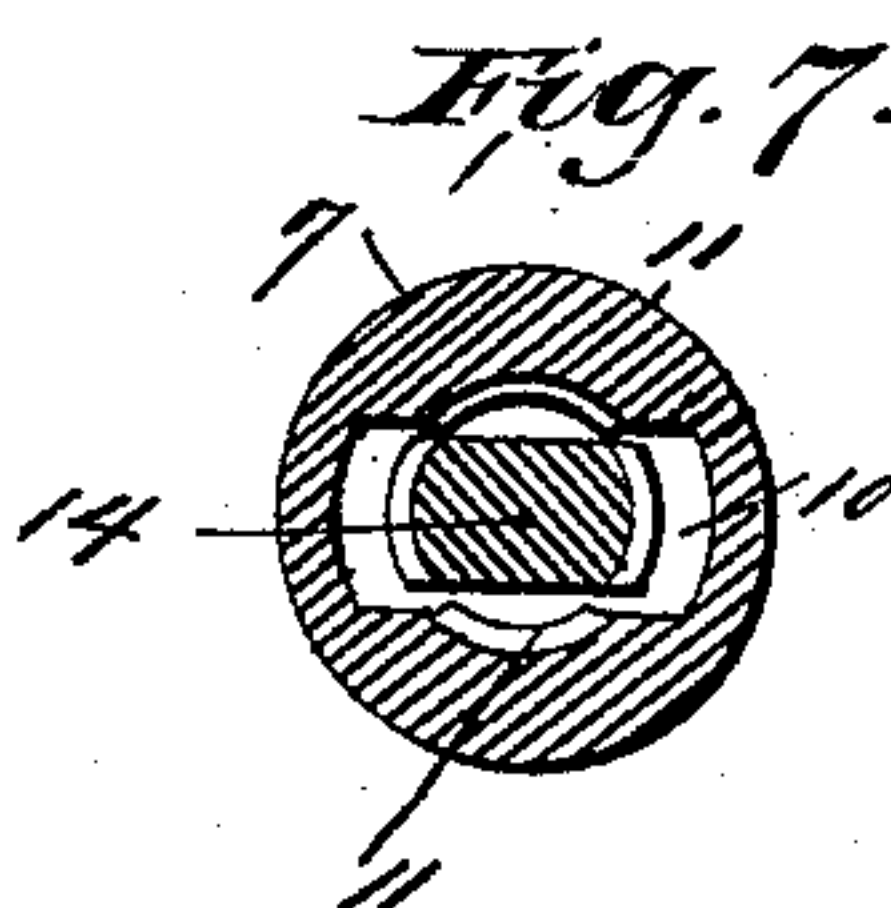


Fig. 7.

WITNESSES:

*W. R. Davis.*  
*W. R. Davis.*

INVENTOR:

*J. K. McGukin*

BY

*Munn & Co*

ATTORNEYS.



# UNITED STATES PATENT OFFICE.

JAMES K. MCGUKIN, OF NEWARK, NEW JERSEY.

## SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 376,539, dated January 17, 1888.

Application filed August 13, 1887. Serial No. 246,850. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES K. MCGUKIN, of Newark, in the county of Essex and State of New Jersey, have invented a new and Improved Shutter-Worker, of which the following is a full, clear, and exact description.

My invention relates to an improvement in shutter-workers, and has for its object to provide a means whereby a shutter may be readily opened or closed and locked in either position, with the lower window-sash down, and wherein the device will be simple and cheap in construction and effective in operation.

The invention consists in the construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a partial horizontal section through a window-frame having my invention attached; and Fig. 2 is a partial vertical section through the same, illustrating the blind opened. Fig. 3 is a similar view illustrating the position of the parts when the blinds are closed, and Fig. 4 is a detail view of the locking-plate. Fig. 5 is a detail view of the finishing-plate. Fig. 6 is a section through the casing and operating-rod, the latter being in position to open or close the shutters; and Fig. 7 is a similar view illustrating the position of the operating-rod after opening or closing the shutters.

In carrying out the invention the window casing or frame 1 is provided with the usual sill, 2, and sash 3. To the outer face of the sill the blinds 4 are hinged in the usual manner, the rearward or outward movement of the blinds being limited by a stop, 5, secured to the wall of the house. Through the sill 2 a hole, 6, is horizontally drilled, in which a cylinder, 7, is adapted to slide, the said cylinder being provided with tapering inner end, 8, having a slot, 9, upon the upper side. The inner tapering end of the said cylinder is provided with an irregular longitudinal recess, 10, substantially rectangular in form, the upper and lower walls being concaved centrally and threaded, as illustrated at 11, Figs. 6 and

7. Beyond said irregular recess 10 the cylinder is provided with a larger central bore or recess, 12, extending through to the outer end, as shown in Figs. 2 and 3, whereby a shoulder, 13, is formed.

Within the cylinder 7 a flat rod, 14, is adapted to slide, two opposing sides of which are threaded to engage the threaded surface of the recess 10 of the cylinder 7, and other opposing sides being flattened and smooth, as shown in Figs. 6 and 7.

The outer end of the threaded rod 14 is provided with an integral button, 15, adapted to engage the shoulder 13 of the cylinder, whereby the movement of the rod in the cylinder is limited and strain removed from the threads thereon. The inner end of the rod is provided with a handle, 16, provided with a slot, 17, in the upper side. A segmental rod, 18, is pivoted to a bracket attached to the outer upper end of the cylinder at one end and to the inner side of the blind at the other end, as shown in Fig. 1, the radius of which rod may be varied to accommodate shutters provided with different styles of hinges, and if in practice it is found desirable the segmental rods may be in two sections, hinged with a rule-joint to break in one direction only. By this means slight differences in the hanging of the shutters may be overcome.

Upon the inner end of the sill a cap or locking plate, 19, is attached, adapted to surround the opening 6, provided with a registering-aperture, 20, the circle of the said aperture being broken at the top by a downwardly-projecting segmental lip, 21, and at the bottom by a rectangular recess, 22, in which a spring-actuated block, 23, is held, having a concave upper edge adapted to engage the lower side of the cylinder 7, the lip being adapted to engage the recess 9 therein.

Outside the locking-plate a finishing-plate, 24, is attached, having an oblong aperture therein, the greater diameter of which is slightly larger than the diameter of the opening in the locking-plate, whereby the block is held in position and the lip 21 may be secured.

In operation, the shutters having been closed, as shown in Fig. 3, to open the same the rod 14 is drawn inward until the button 15 strikes the shoulder 13 of the cylinder 7. The said



rod is then given a half-turn, and the thread thereon engages the thread in said cylinder. The rod is now pressed downward to relieve the cylinder from the lip 21 and pressed outward, carrying with it the cylinder. The blind through the segmental rod is thereby opened out, and the slot in the handle receiving the lip 21, as shown in Fig. 2, the shutter is locked in its open position. One complete device, as above set forth, is used with each shutter. In closing the shutter the handle is borne down against the spring-actuated block 23 and drawn inward until the shutter is closed. The slot in the casing or cylinder will thereupon engage the lip 21, and the shutter will be held closed. The rod 14 through the handle is then given a half-turn, which brings the flat side up, and is pushed in the cylinder out of the way.

I do not confine myself to the exact mode of attaching the device, as the cylinder may be made to travel, in suitable cover, above the sill or otherwise.

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

1. A shutter-worker consisting of a cylinder having one beveled and slotted end and an aperture in said end provided with broken threads, a rod threaded upon two opposing sides only and provided with a transverse slot-

ted handle, a segmental rod pivoted to said cylinder and adapted to be also pivoted to a shutter, an apertured locking-cap provided with a lip adapted to enter slots in said cylinder and handle, and a spring-actuated block held in said cap, adapted to prevent the cylinder and handle from becoming disengaged from said lip, substantially as and for the purpose herein set forth.

2. The combination, with a tubular cylindrical body having one beveled end slotted upon the upper face, and provided with interior broken threads and a shoulder at the inner end of said threads in said beveled end, and a segmental rod pivoted to said cylinder at the opposite end and adapted for attachment to a shutter, of a rod threaded upon two opposing sides only, provided with a transversely-slotted handle at one end and a button at the other, said rod adapted to slide in said cylinder and engage said broken threads, and an apertured locking-cap provided with a segmental lip adapted to alternately engage the slots in said cylinder and handle, and a spring-actuated block adapted to engage the under portion of said handle and cylinder, all operating substantially as herein set forth.

JAMES K. MCGUKIN.

Witnesses:

HORACE W. HUNT,  
JOHN MEWHINEY.