

C. H. Gilman,
Shutter Fastener.
N^o 53,601. Patented Apr. 3, 1866.

Fig: 1.

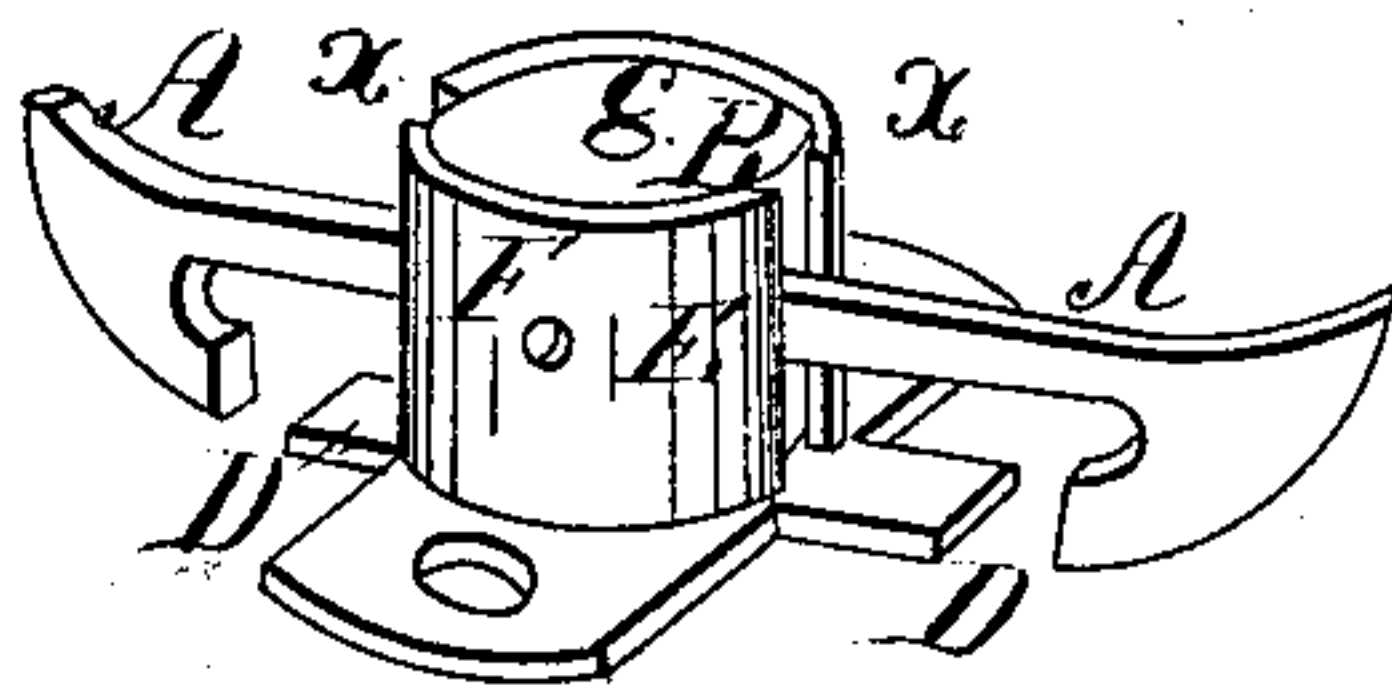


Fig: 2.

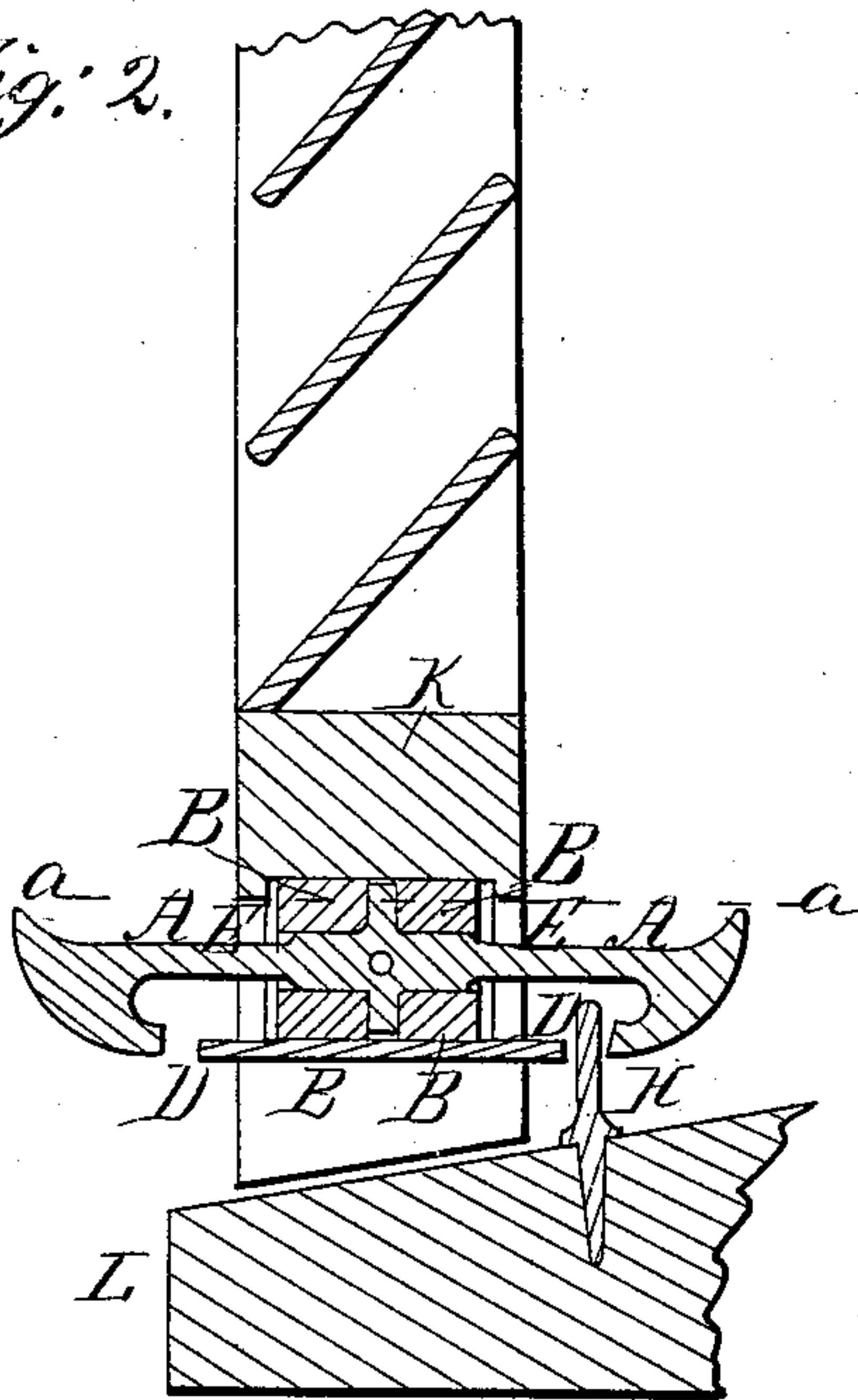
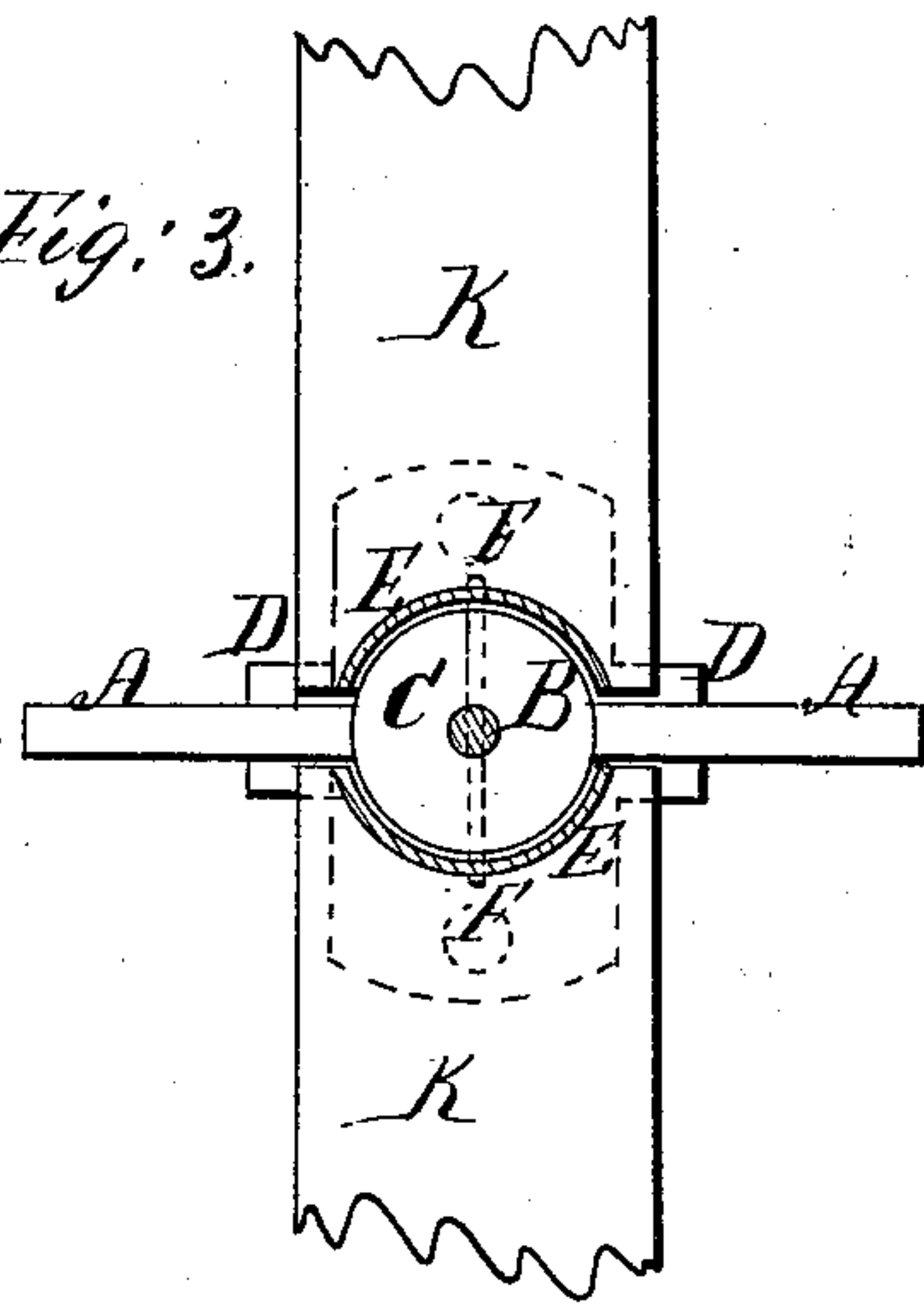


Fig: 3.



Witnesses;
William H. Clifford
Richard Rich

Inventor;
Charles H. Gilman

UNITED STATES PATENT OFFICE.

CHARLES H. GILMAN, OF PORTLAND, MAINE.

SHUTTER AND BLIND FASTENING.

Specification forming part of Letters Patent No. 53,601, dated April 3, 1866.

To all whom it may concern:

Be it known that I, CHARLES H. GILMAN, of Portland, in the county of Cumberland and State of Maine, have invented a new and useful Spring-Fast for Shutters and Blinds, &c.; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others to make and use my invention, reference being made to the accompanying drawings, forming part of this specification, in which—

Figure 1 shows a view, in perspective, of my invention; Fig. 2, a section of my invention, also the method of attachment and use on a blind; Fig. 3, a plan of the upper end of the cylinder, showing the upper disk and the method of inserting the cylinder and bar into a blind.

My invention consists in the combination and arrangement, as hereinafter set forth and described, of a metal base or plate, two elastic disks, a cup or cylinder, and a bar operated and controlled by means of the disks and a stationary catch.

In Fig. 1, E shows the cup or cylinder; D D, the base or plate upon which it is set. B represents one of the elastic disks or packing in the cylinder.

A shows the movable bar, having the ends thereof provided with hooks to catch upon the staple or pin to which the blind may be fastened.

Slots or channels *x x* are made in two sides of the cylinder, to admit of the motions of the bar A in a vertical plane.

F shows one of two apertures constructed on opposite sides of the cylinder, into which is inserted the pivot upon which the bar A turns.

c c, Fig. 2, show two arms projecting from the movable horizontal bar A, perpendicular to the same, and penetrating perforations made in the disks or packing B B. The bar A is placed in the cup or cylinder in the slots *x x* and between the two disks or pieces of packing, the arms *c c* penetrating the holes in the centers thereof.

F, Fig. 3, is a transverse bar to confine the packing.

The cylinder is fitted into a shutter or blind,

in a recess constructed for such purpose, in such manner as to allow the two ends of the bar A to project through on opposite sides thereof, and then the device is secured by means of the plate D D.

The slots *x x* admit the motion of the bar A upward and downward to the extent of the elasticity of the packing. The motion of the bar A compresses the packing in two ways, and operates by this double compression, first, laterally or horizontally by means of the arms *c c*, and, second, vertically, or nearly so, by means of those portions of the bar lying between the disks or packing pressing upward and downward against the inner faces of the two disks. The expansive power of the packing, when compressed, restores the bar A to the position seen in the drawings after the force that moved it is withdrawn.

I first construct the cup or cylinder E of metal, and with the slots *x x* and holes F. Into this I then place the lower disk, made of rubber, resting flatwise on the bottom of the cylinder and fitting closely, also having the perforation for arm *c* at the center. The bar A is next placed upon this disk, with the pivots in the holes F and the arm in the perforated center of the lower disk. Over the bar A, I then place the upper disk of the packing in the same manner as the lower one. The packing is then confined and the cylinder fastened into a blind or shutter, as before described.

I do not claim a catch made of a bar of metal passing through and fixed into a single disk of rubber, and operating by the flexibility or bending property of the rubber; but

What I claim, and desire to secure by Letters Patent, is—

The combination and arrangement, as herein set forth, of the plate D D, cylinder E, packing B B, bar A, with a catch or staple, all substantially as and for the purposes described.

CHARLES H. GILMAN.

Witnesses:

WILLIAM H. CLIFFORD,
RISHWORTH RICH.