

(No Model.)

C. S. BALL, Jr.
SHUTTER FASTENER.

No. 360,406.

Patented Apr. 5, 1887.

Fig. 1.

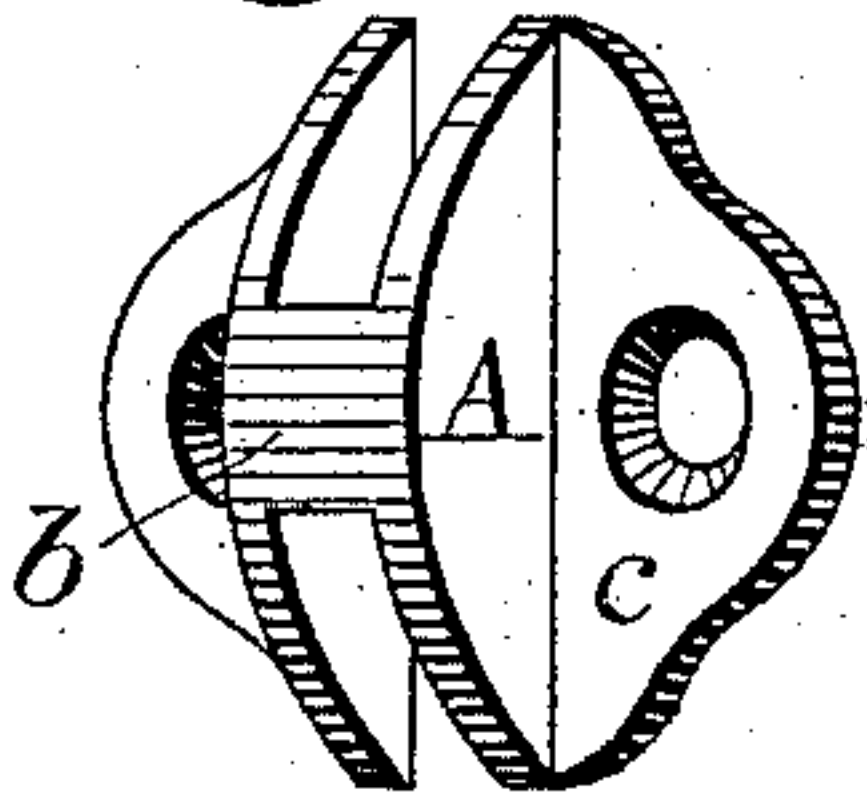


Fig. 2.

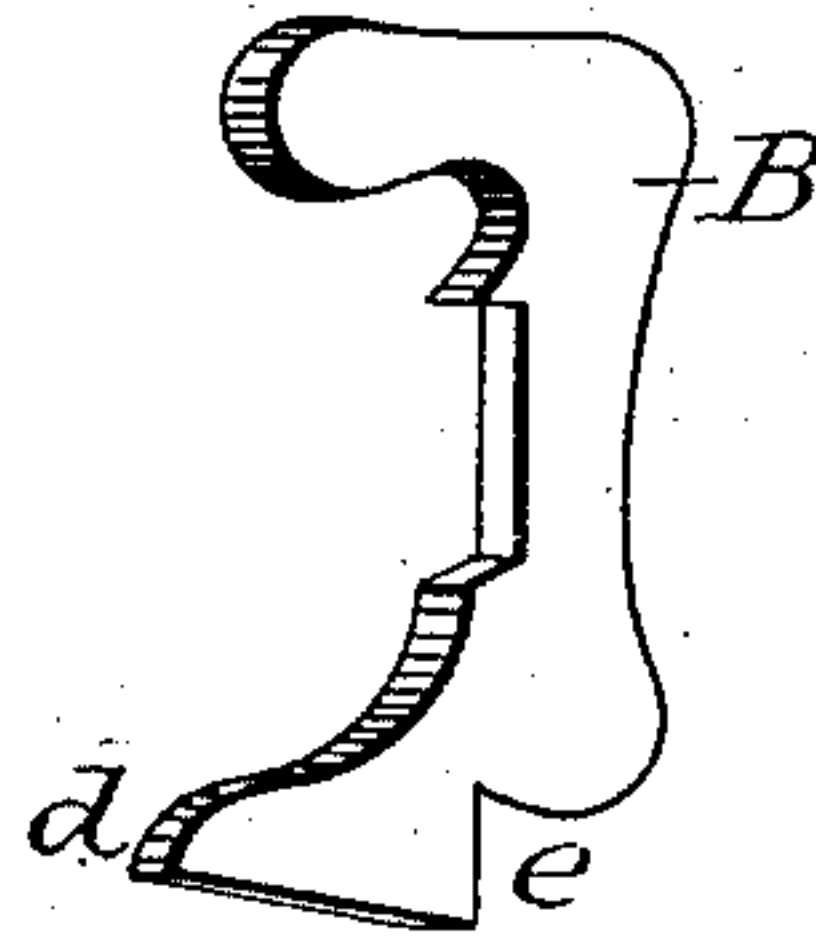


Fig. 3.

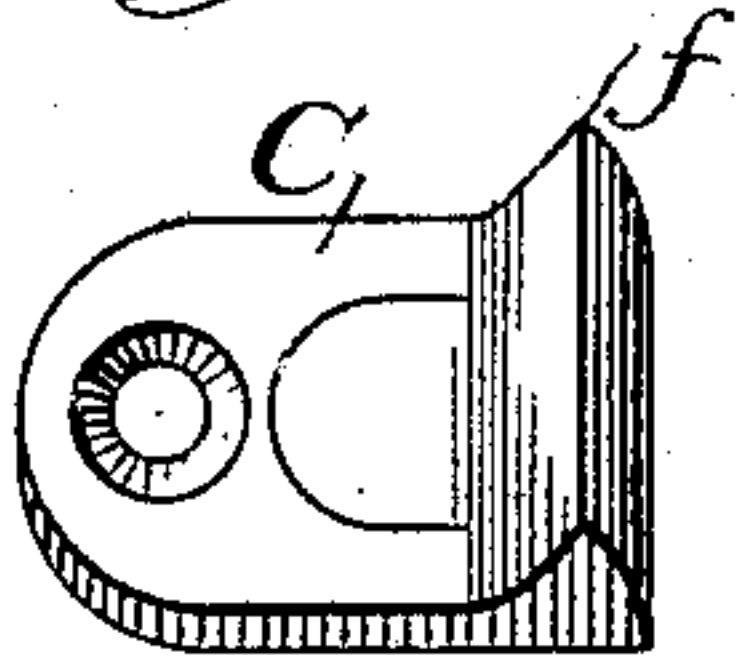
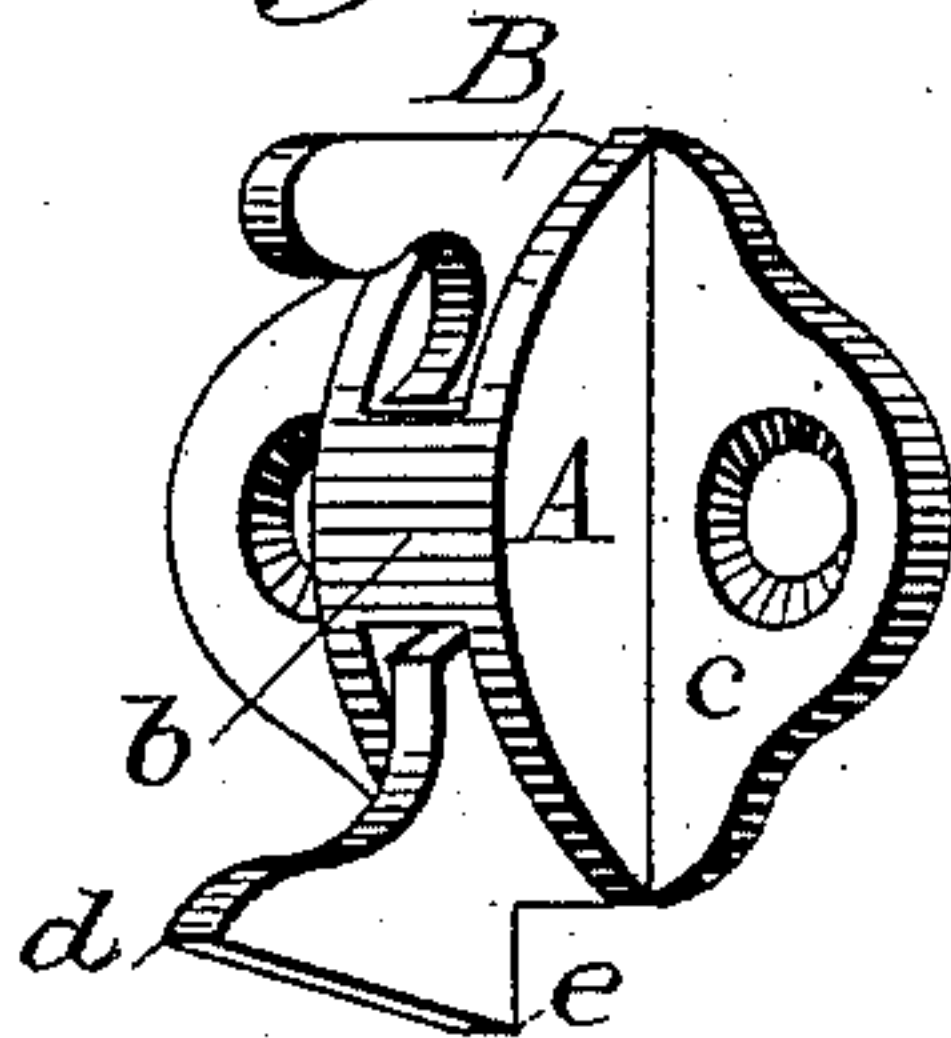


Fig. 4.



Witnesses:

Philip W. Hoffman.
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Inventor:

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By A. Smith
his Attorney

UNITED STATES PATENT OFFICE.

CALVIN S. BALL, JR., OF SYRACUSE, NEW YORK.

SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 360,406, dated April 5, 1887.

Application filed August 17, 1885. Serial No. 174,669. (No model.)

To all whom it may concern:

Be it known that I, CALVIN S. BALL, Jr., of the city of Syracuse, in the county of Onondaga and State of New York, a citizen of the United States, have invented certain new and useful Improvements in Window-Blind Fastenings, of which the following is a specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a perspective of the attaching-frame; Fig. 2, an elevation of the bolt; Fig. 3, an elevation of catch; Fig. 4, an elevation of the complete device.

Like letters or figures of reference indicate like parts wherever they occur.

My object is to produce an improved gravity fastening operating vertically and without any spring. It is constructed as follows:

20 My attaching and bolt-holding frame consists of two plates, A, having one side straight, upon which I erect a flange or wall, *c*, at right angles, and having the other side flat and rounded out so as to present an ornamental appearance and to receive the fastening-screws. These plates are arranged with their straight sides and walls *c* parallel to each other, and the walls are connected by a bar or bridge, *b*, thus creating an annular slot through the frame.

30 B is the sliding bolt, fitting loosely in the slot in the frame and consisting of a piece of metal provided with a wedging projecting point, *d*, behind which is a depression or notch, *e*, both being upon the lower end or bottom of the bolt. In the front edge of this bolt I make an elongated transverse groove, with a positive shoulder at each end of the groove, as shown in the drawings. This groove is somewhat longer than the vertical width of the bridge *b*. The upper end of this bolt is provided with an outwardly-projecting knob,

which is used to disengage the bolt from the catch by raising it vertically.

C is the catch to be fastened upon the window-sill, and consisting of a flanged base and an upright beveled lip, *f*. 45

When the frame is secured to the blind, the bridge *b*, lying in the groove in the bolt, and the shank of the bolt fitting in the slot in the frame, holds the bolt in position for operation in a vertical direction only, and the shoulders upon the bolt regulate and control the vertical movement by coming into contact with the bridge. The lower shoulder permits the raising of the bolt high enough to disengage the point *d* and notch *e* from the catch, and the upper shoulder carries the bolt at all times in position for the point *d* to meet the bevel of the lip *f* as a blind is closed, and then the wedging of the point raises the bolt until the whole point clears the lip, when the bolt drops of its own gravity and the lip *f* lies in the notch *e*. To disengage them or unlock a blind, I take hold of the knob and raise the bolt clear from the catch. 65

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

In a shutter-fastener, the combination of a frame consisting of plates A, provided with parallel walls and connected by the bridge *b*, the bolt B, provided with point *d* and notch *e* at its lower end, a knob at its upper end, and an intermediate transverse groove terminating with regulating-shoulders, said bolt playing vertically behind the bridge *b* between the walls of the plates A, and a catch, C, provided with lip *f*, substantially as shown and described. 75

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Witnesses:

W. E. BOYD,
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