C. J. FERGUSON.
Lock-Hinges.

No. 197,622. Patented Nov. 27, 1877.

Fig. I.

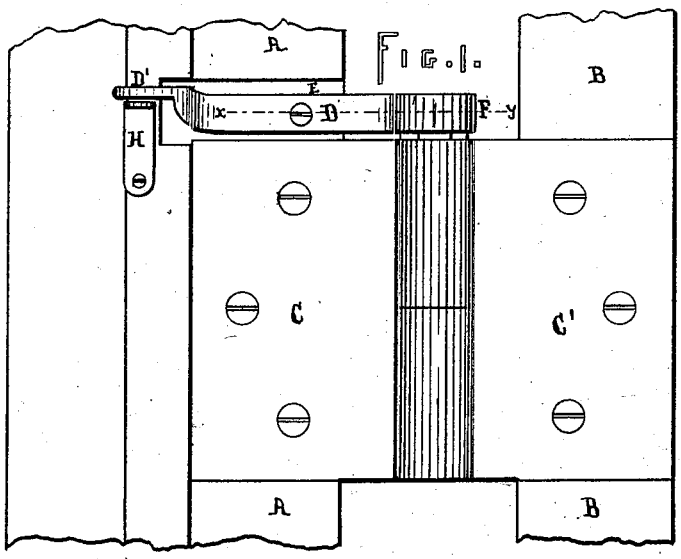
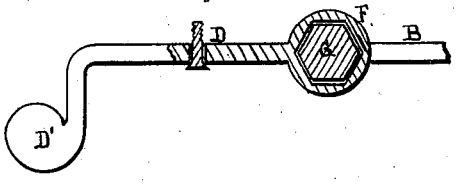


Fig. II.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES J. FERGUSON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN LOCK-HINGES.

Specification forming part of Letters Patent No. **197,622**, dated November 27, 1877; application filed June 26, 1877.

To all whom it may concern:

Be it known that I, CHARLES J. FERGUSON, of the city of Philadelphia, State of Pennsylvania, have made certain new and useful Improvements in Shutter-Hinges; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, making part hereof.

The object of my invention is to provide a shutter with a substitute for a turn-buckle, but by which the shutter can be held open at any angle, and also to combine therewith all the offices of a bolt to fasten it, all operating from the inside.

My invention consists of a thumb-lever pivoted to the jamb or frame of the window, the said lever moving upward and downward in a vertical plane, and projecting from the inside to the outside, its outer extremity fitting down, by an inner polygonally or other suitably shaped socket, upon the top of a cap upon the moving flap of the hinge, which cap is correspondingly shaped to enter said socket; also, of the combination of a lever pivoted to the window-frame, extending from the plane of the shutter, when closed, to a cap over the pintle of the hinge, and locking down upon the said cap, and a latch within to hold the inner extremity up and the outer one down upon the cap to prevent the lever being pushed up from the outside, all as hereinafter more fully described and claimed.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

In the drawings, Figure 1 is an elevation of my invention, showing the shutter fully open; Fig. 2, a horizontal sectional view on the line X Y of Fig. 1.

A is the window-frame; B, the shutter; C C′, the hinge; D, the pivoted lever, pivoted at D; D′, the inner end of the lever; E, a recess in the frame to receive the lever; F, the outer end of the lever, containing the polygonal socket, Fig. 2; G, the polygonally-shaped cap over the pintle; H, the latch to sustain end D′ of the lever D.

The lever D D′ is pivoted at D, Fig. 1, in a recess, E, which allows it to move freely up and down. C C′ is the hinge. The cap G is rigid upon the movable flap of the hinge, and is so adapted to the outer end F of lever D (by means of a polygonally-shaped end) that when end F comes down upon it it fits tightly and prevents the cap from turning.

I prefer the polygonal cap I have shown, as being more consistent with strength than slots in the cap, and, moreover, that the figure being a true polygon, the shutter can be opened or bowed at almost any angle, and the end F will hold it there.

When it is desired to close and lock the shutters they are closed tightly, and by moving the inner end of the lever up at D′ the outer end comes over the polygonal cap G by means of its polygonal socket F, and locks the hinge. By then pushing around the latch H, so that the end D′ of the lever is fixedly sustained, the lever cannot be moved up from the outside to open the shutter.

The lever D could be attached in many ways and still answer its purpose. It could be attached to the heel of the shutter, or to the hinge, always providing there is a recess to receive it when the shutter is closed. Having it pivoted to its place prevents its being misplaced and lost. A spring may also be placed under its inner end to throw the outer end down.

Instead of the form of cap G, as shown, the cap may be of the general form of a pinion-wheel or star-wheel, and the outer end F of the lever may fall into the spaces in the said wheel, between the teeth upon the side next the latch.

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

1. A thumb-lever, D, pivoted to the jamb or frame of the window, the said lever moving upward and downward in a vertical plane, and projecting from the inside to the outside, its outer extremity fitting down by an inner polygonally or other suitably shaped socket, F, upon the top of a cap, G, upon the moving

flap of the hinge, which cap is correspondingly shaped to enter said socket, substantially as and for the purpose described.

2. The combination of a lever, D, pivoted to the window-frame, extending from the plane of the shutter when closed to a cap, G, over the pintle of the hinge, and locking down upon the said cap, and a latch, H, within to hold the inner extremity up and the outer one down upon the cap, to prevent the lever being pushed up from the outside, substantially as described.

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