

(Model.)

C. W. PIERCE.

LOCK HINGE.

No. 246,814.

Patented Sept. 6, 1881.

Fig. 1.

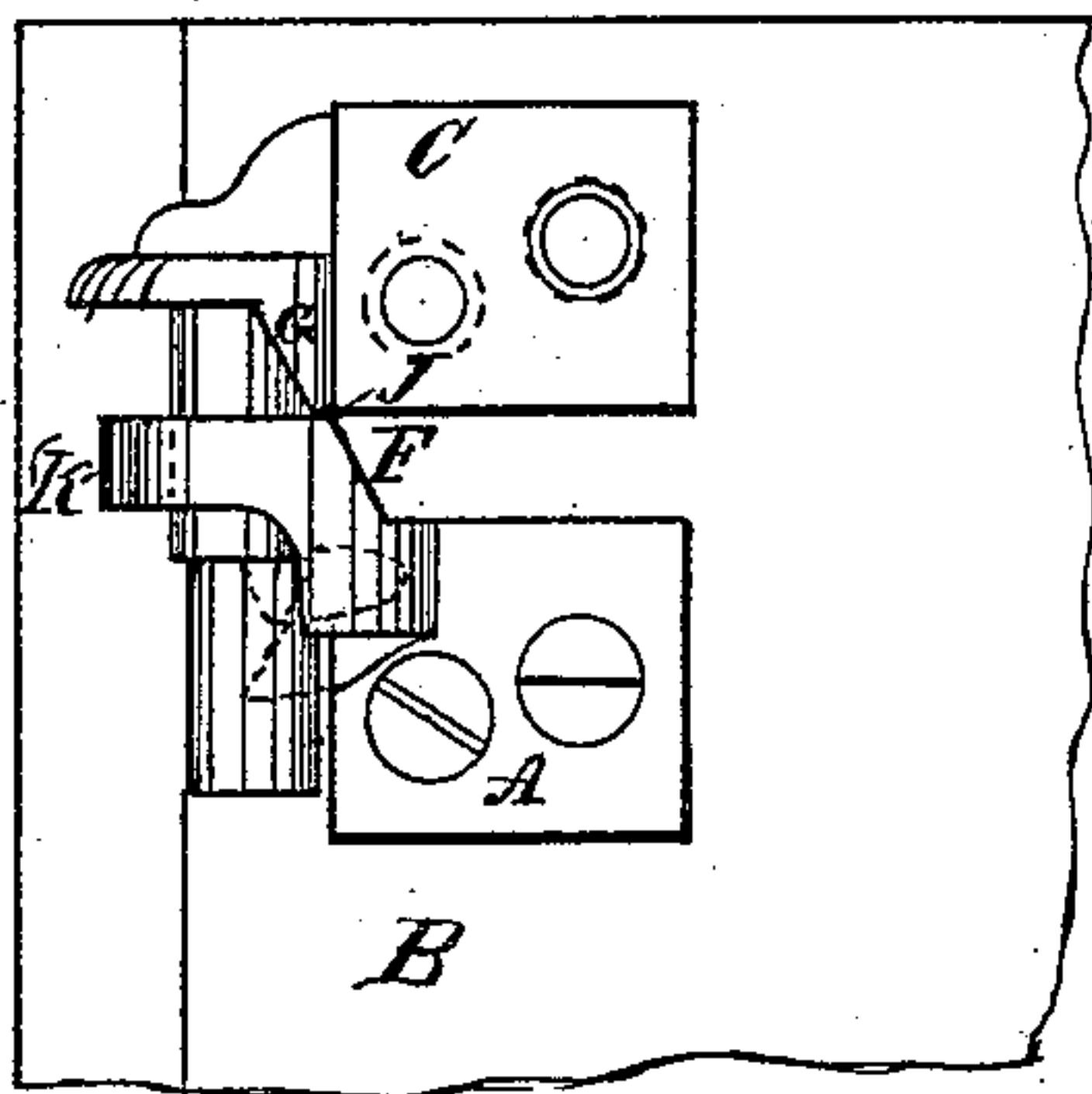


Fig. 2.

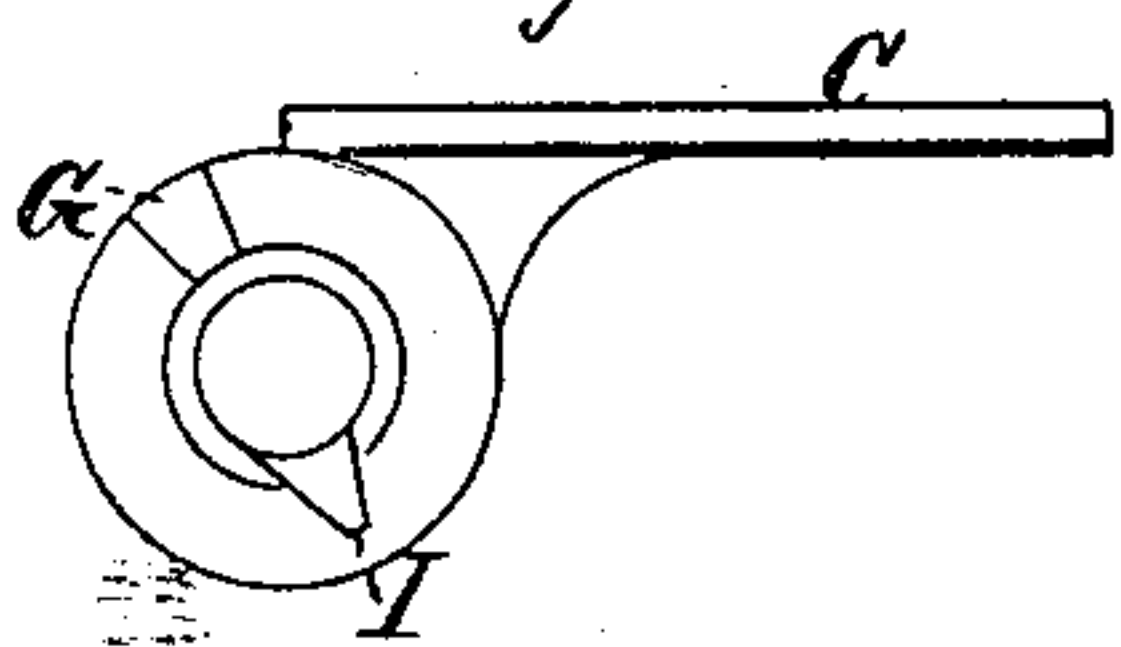


Fig. 3.

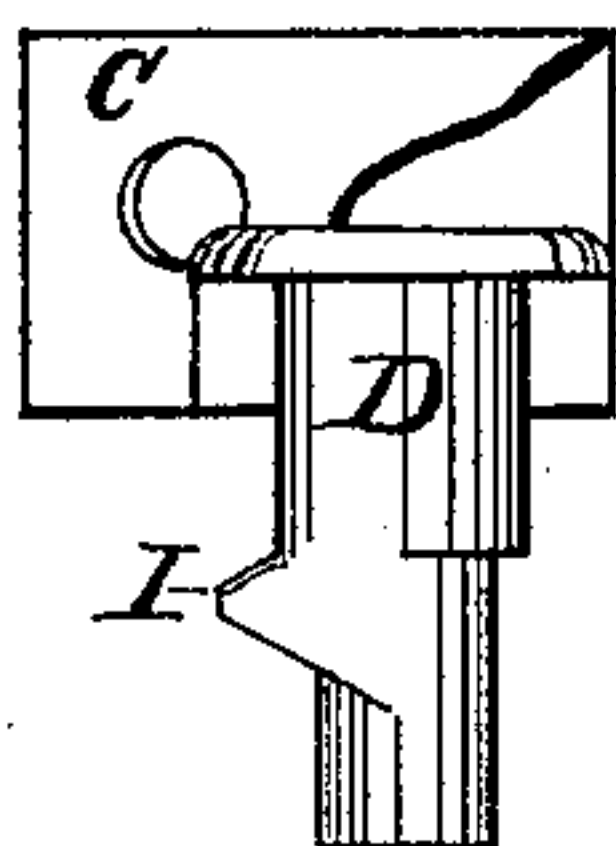


Fig. 4.

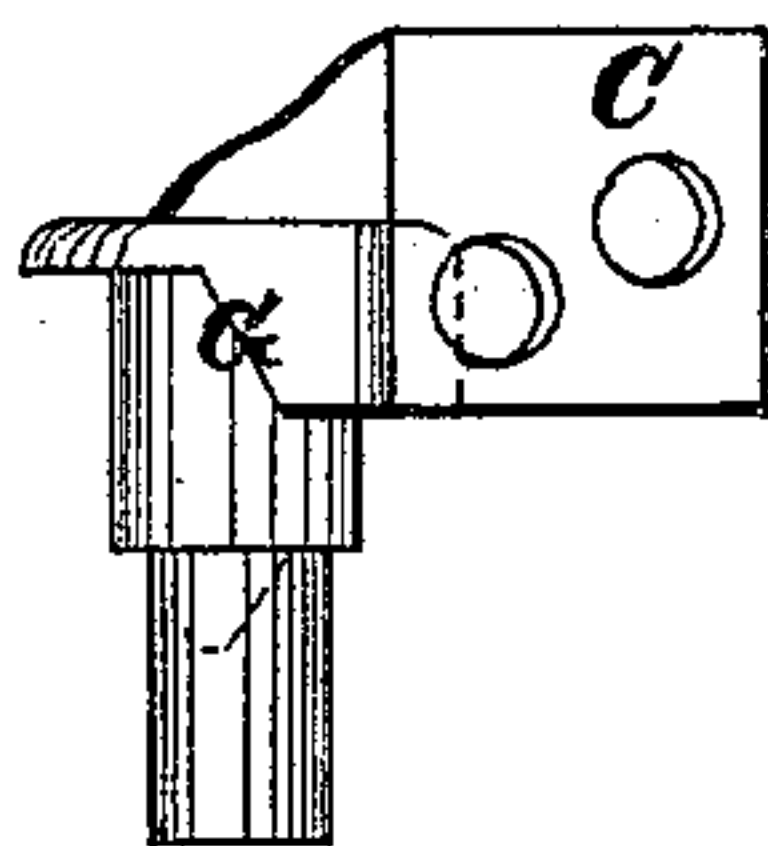


Fig. 5.

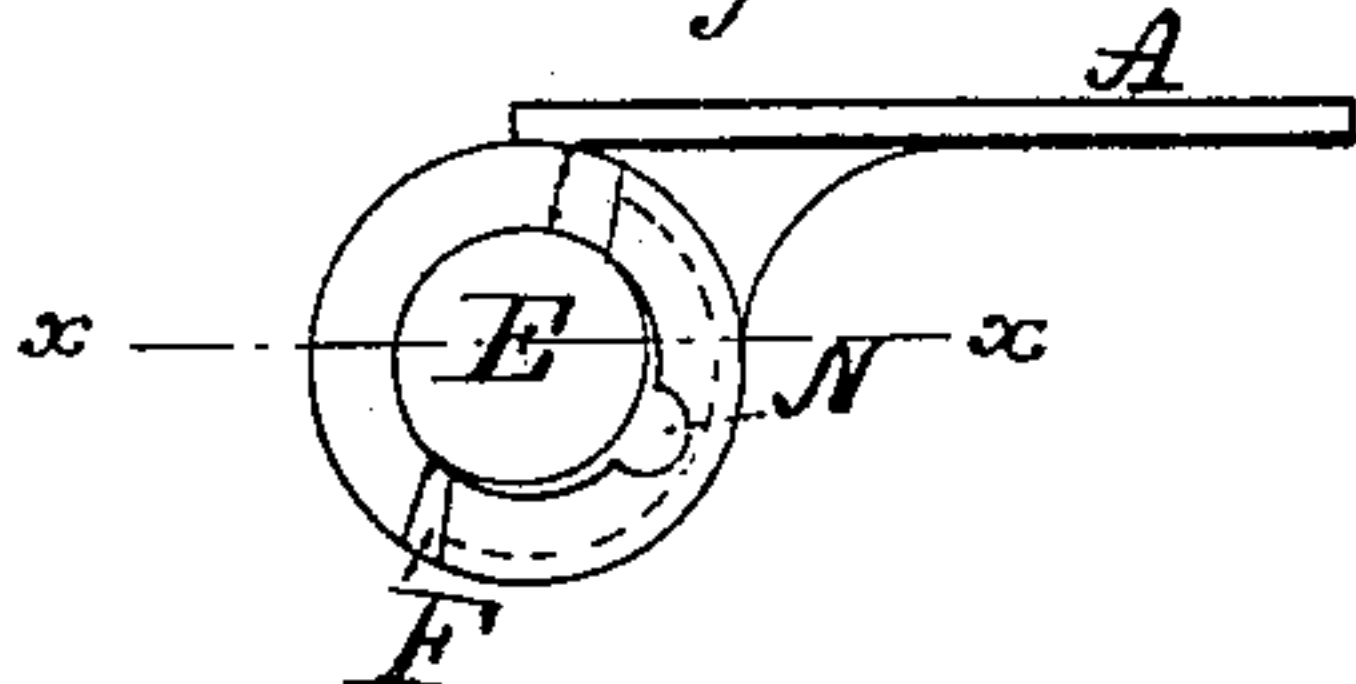
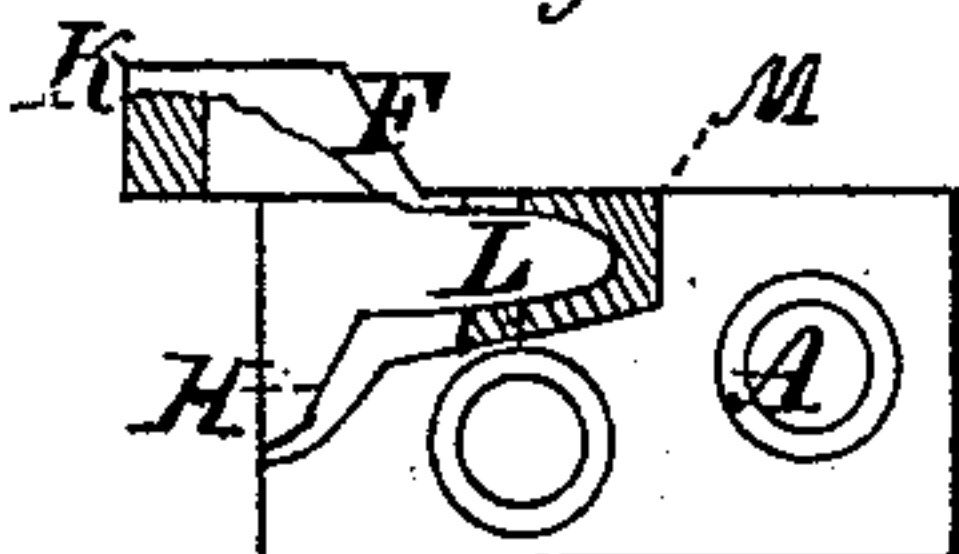


Fig. 6.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES W. PIERCE, OF OAK HILL, NEW YORK.

LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 246,814, dated September 6, 1881.

Application filed May 23, 1881. (Model.)

To all whom it may concern:

Be it known that I, CHARLES W. PIERCE, of Oak Hill, Greene county, New York, have invented a new and useful Improvement in Self-Fastening Blind-Hinges, of which the following is a specification.

The invention consists of the application to the ordinary self-fastening blind-hinge of another fastening or catch device, which, besides making a double catch or fastening-hinge, also so balances the action of the ordinary single catch as to prevent the lateral pressure and wear common to it, and also serves for the stop or catch to prevent the detachment of the blind when lifted over the catch for closing it, all as hereinafter more fully described, and shown in the accompanying drawings, in which—

Figure 1 is a side elevation of my improved blind-hinge, showing the positions when opened nearly to the point of dropping down the inclines of the fastening device. Fig. 2 is a plan of the upper or pintle portion of the hinge inverted. Fig. 3 is a side elevation of the part represented in Fig. 2. Fig. 4 is an elevation of the same. Fig. 5 is a plan of the lower or eye portion of the hinge; and Fig. 6 is a transverse section of Fig. 5 on line *x x*.

A represents the lower or eye portion of the hinge fastened to the window-frame B.

C represents the upper or pintle portion to be fastened to the blind, and having the usual pintle, D, to enter and work in the eye E of the part A.

The inclined shoulder F of the part A and the similar one, G, on the part C constitute the ordinary catch or fastening device for holding the blind open and preventing it from slamming by the wind. To make a double fastening for this purpose, for greater security, also to balance the lateral action of the ordinary fastening device, I propose to make the incline H on the part A opposite to the incline F, and apply the corresponding projection I on the pintle, so adjusting them that simultaneously with the descent of G down F projection I descends the incline H, and thus con-

stitutes the double fastening; and in order that the projection I may have space in which to turn while the bottom J, Fig. 1, of part C is turning on top K of part A, I make the groove L in the part M of the eye portion, and to pass the projection into or from this groove when the pintle is inserted or detached from the eye I make the vertical notch N in part M, and this notch I locate in a position with which the projection will coincide when the blind is about half open, to which position the blind must be shifted for connecting or disconnecting it. In all other positions the projection I prevents disconnection by working within grooves L, and thus, besides its double-locking function, serves the purposes of a stop also, to prevent the detachment of the blind when lifting it over the catches for the purpose of closing it. The projection I, groove L, and the notch N are formed in the casting of the respective parts, and thus make no additional cost of the hinge.

It will be observed that the contrivance of projection I and incline H may serve as the sole locking device without the other, F G, if desired, and, together with the groove L, will serve alike for the stop to prevent the detachment of the hinge; but the essential object is to apply the double fastening together with said fastening F G, which provides a hinge much superior to one with either device alone.

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

In a self-fastening blind-hinge, A C, having the inclines F G, the part A, also provided with incline H, groove L, and notch N, and the pintle provided with the projection I, thereby forming a double catch or fastening, and being located and arranged relatively to said catch F G for coincident action, substantially as described.

CHARLES W. PIERCE.

Witnesses:

W. J. MORGAN,
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