

(No Model.)

C. W. PIERCE.

DOOR LATCH.

No. 293,512.

Patented Feb. 12, 1884.

Fig. 1.

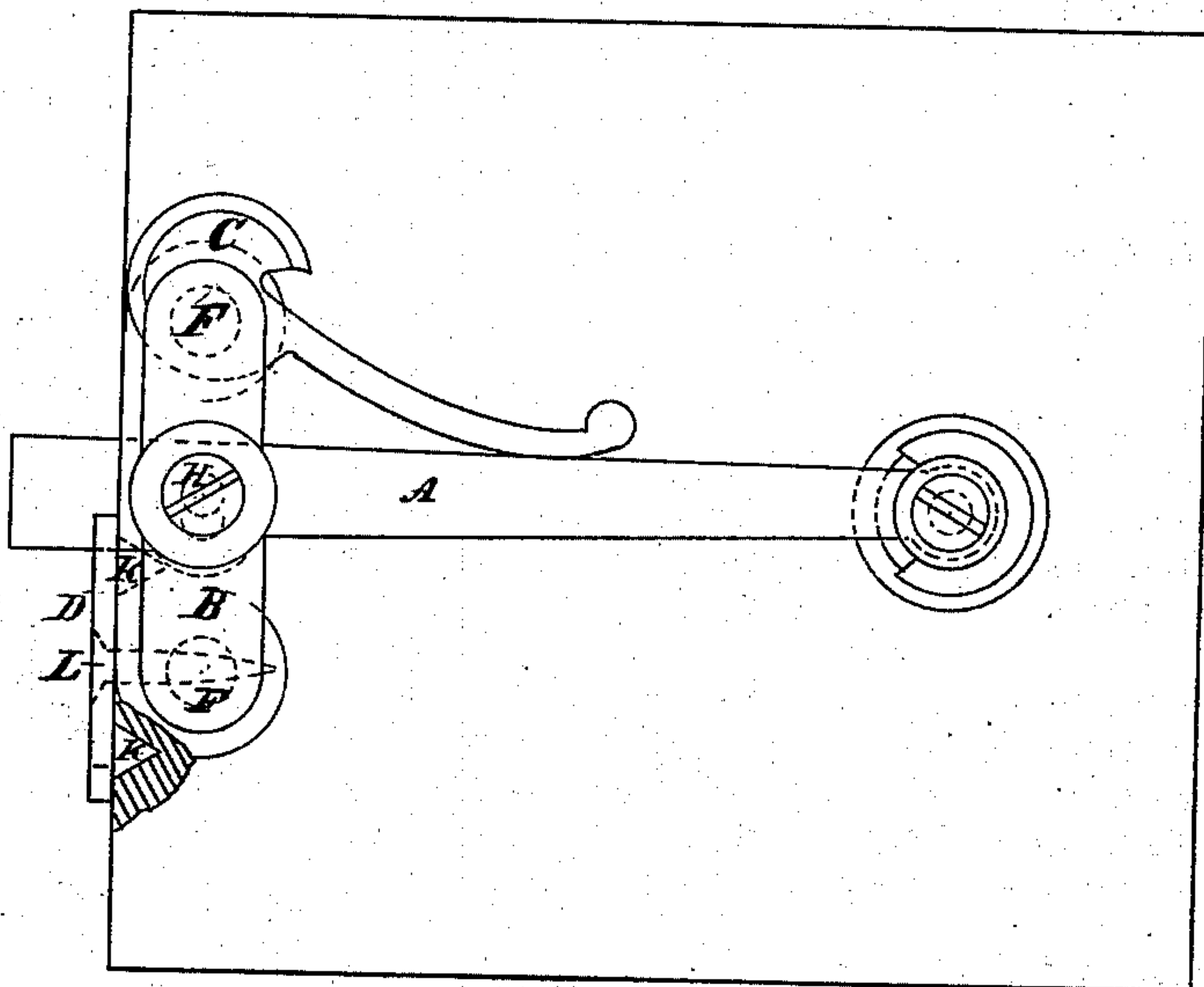


Fig. 2.

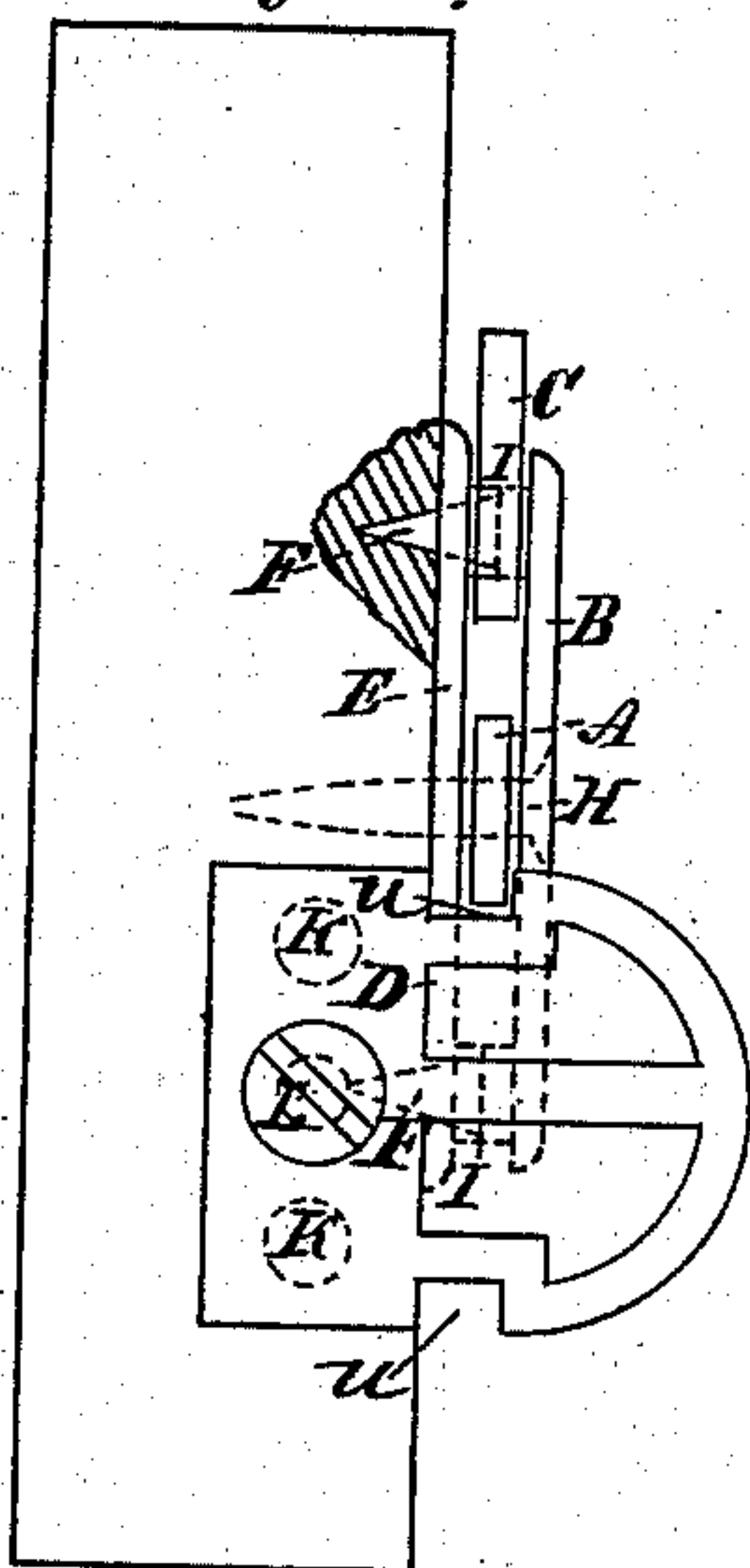
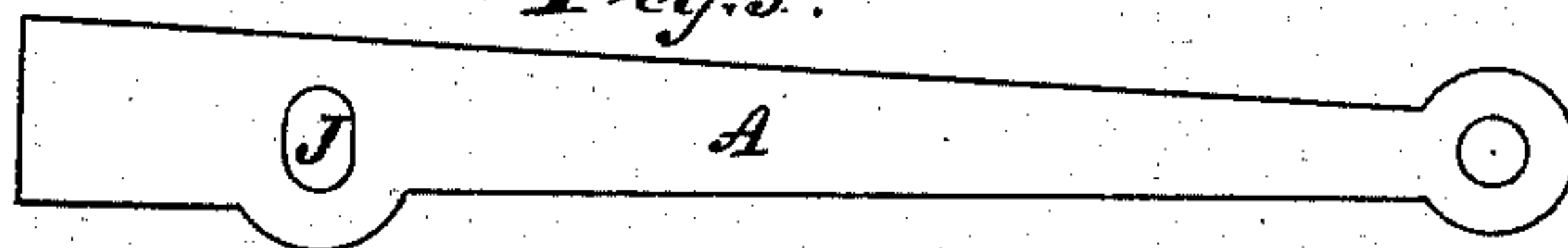


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

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

DOOR-LATCH.

SPECIFICATION forming part of Letters Patent No. 293,512, dated February 12, 1884.

Application filed June 23, 1881. Renewed October 4, 1883. (No 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 Door-Latches, of which the following is a specification.

My invention consists of improved contrivances in the construction of the guard for the latch; also, of the catch, whereby the method of fastening them to their places is simplified and cheapened, and the number of screws therefor lessened.

Figure 1 in the accompanying drawings is a side elevation of a door-latch and the catch therefor, constructed according to my invention. Fig. 2 is an elevation taken at right angles to that of Fig. 1. Fig. 3 is a side elevation of the latch-bar alone.

A represents the latch; B, the guard therefor; C, the drop-lever cam for locking the latch; D, the catch; and E, the wearing-plate behind the latch, to prevent the rubbing of the latch against the door.

Heretofore the guard B and the wearing-plate E have been attached to the door by two screws—one at the top and the other at the bottom, above and below the latch, the one at the top serving for the pivot for the drop-bar fastener C—and two screws have also been employed to fasten the catch D to its place. Now, I propose to cast the guard B with a stud, F, at each end in the place where the fastening-screws have heretofore been located, said studs being adapted to pass through the holes of the wearing-plate E, same as before made for the screws, and enter the wood sufficiently to prevent the guard and plate from shifting out of their proper position, and employ a single screw, H, in connection therewith, to fasten them to the door, the said screw being located in the middle, or thereabout, between the studs and passing through a slot, J, which I provide in the latch, to allow it to rise and

fall, as required. The upper stud is also adapted for, and serves the purposes of, the pivot for the drop-fastener, same as the screw now used. As in the old arrangement, I make the necessary shoulders or projections, I, on one or both parts, to adjust and maintain the guard the proper distance away from the plate for providing the space between them required for the latch to work in. As these studs, holes, shoulders, and sockets, also the slot in the latch, are all formed in the casting of the respective parts, it follows, of course, that by this arrangement I economize in the number of screws used to the extent of one-half, and to the same extent, or thereabout, in the labor of fastening this part of the latch. By substantially the same arrangement of two studs K and one screw L, I economize in the cost of material and labor for the application of the catch D, which I make double, in connection with this mode of attaching—that is, with a notch, M, on both the upper and lower sides—in order that it may, together with this kind of fastening, be reversible. The single catch fastened by two screws is reversible simply by having the screw-holes countersunk on both sides; but with these studs it is necessary to reverse the sides, and hence, together with them, I make the catch double-notched.

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

In a door-latch, the guard B, having the studs F extending through the plate E and into the door, in combination with the latch A, having a slot located under or behind said guard, and with an attaching-screw, H, located between said studs and passing through said slot in the latch, substantially as described.

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Witnesses:

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