

A. D. JUDD.
Mortise Door-Latches.

No. 147,560.

Patented Feb. 17, 1874.

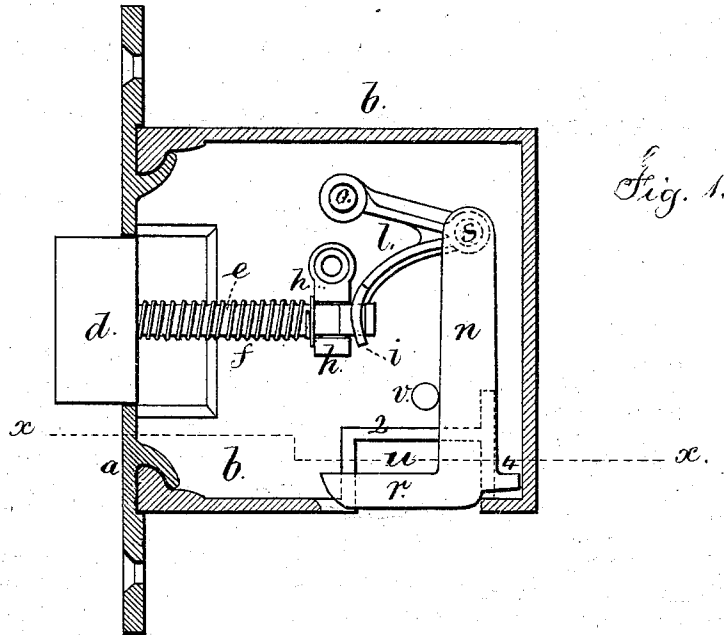
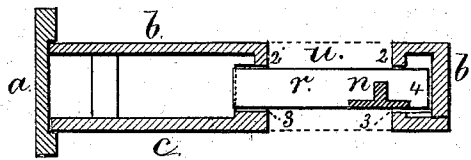


Fig. 2.



Witnesses,
 Chas. Smith
 Geo. T. Pinckney

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 Albert D. Judd
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 atty.

UNITED STATES PATENT OFFICE.

ALBERT D. JUDD, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN MORTISE DOOR-LATCHES.

Specification forming part of Letters Patent No. **147,560**, dated February 17, 1874; application filed January 2, 1874.

D.

To all whom it may concern:

Be it known that I, ALBERT D. JUDD, of New Haven, in the State of Connecticut, have invented an Improvement in Mortise-Latches for Store-Doors, &c., of which the following is a specification:

Latches have been made with a sliding block operating upon a lever within the case, as seen in Letters Patent No. 138,680.

My invention is made for lessening the friction of the parts and preventing the sliding block becoming wedged in the case. I make use of a link-bar extending upwardly from the sliding block to a bell-crank lever located above the stem of the sliding latch, and acting upon the same by means of a fork and a notch in the stem.

In the drawing, Figure 1 is an elevation of the latch with the case in section, and Fig. 2 is a sectional plan at the line *x x*.

The case is made of the front plate *a*, box *b*, and cap-plate *c*, and within the said case is the latch *d*, that passes through the front plate *a*, and is provided with the stem *e* and spring *f*, said stem sliding through the guide-lugs *h*, and being notched for the forked end *i* of the bell-crank lever *l*, that swings upon the fulcrum-stud *v*. The link-bar *n* extends upwardly from the latch-block *r*, and is jointed, at *s*, to one end of the lever *l*. The block *r* is guided at its edges in the notch or opening made at *u* in

the case *b c*, and upon the inner surfaces of the case the ribs *2 3* are provided, so that the parts can be finished off true and parallel to allow the block to slide freely, the stud *v* serving to hold the link-bar *n* in position on one side, and the projection *4*, extending toward the edge of the case in the other direction, to steady the block *r*.

It is to be understood that the thumb-lever of the latch, on one or both sides of the door, extends across below the block *r*, so as to press the same upwardly when the thumb-lever is acted upon.

By this construction the link-bar, extending upwardly to the joint *s*, serves to guide the block *r* and hold it in position by the aid of the stud *v* and projection *4*.

I claim as my invention—

The link-bar *n*, extending upwardly from the block *r*, and hinged to the bell-crank lever *l* at a point above the stem of the latch, in combination with the latch *d*, stem *e*, spring *f*, stud *v*, and projection *4* bearing against the box of the case, as and for the purposes set forth.

Signed by me this 23d day of December, A. D. 1873.

A. D. JUDD.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.