(Model.)

D. J. & D. G. MILLEMANN.

LATCH.

No. 406,588. Patented July 9, 1889.

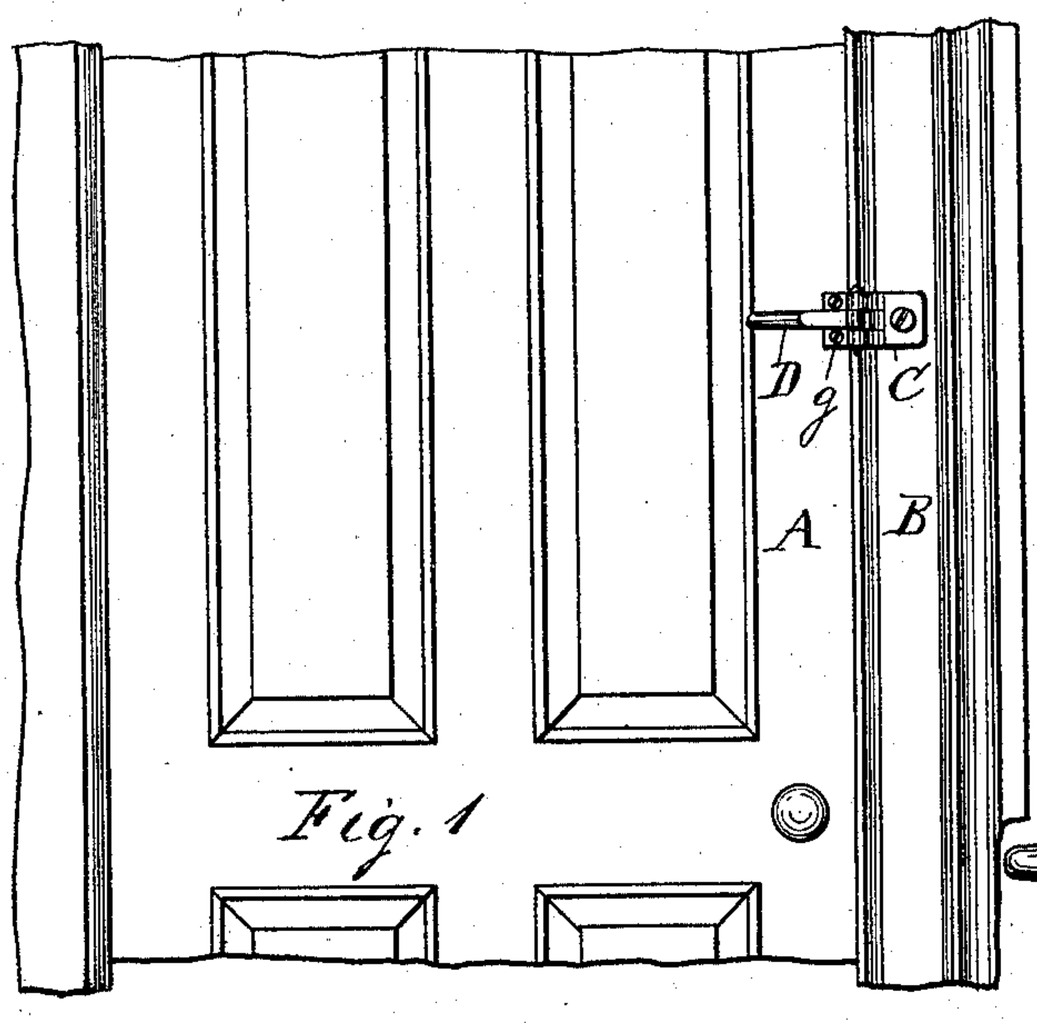

Fig. 1

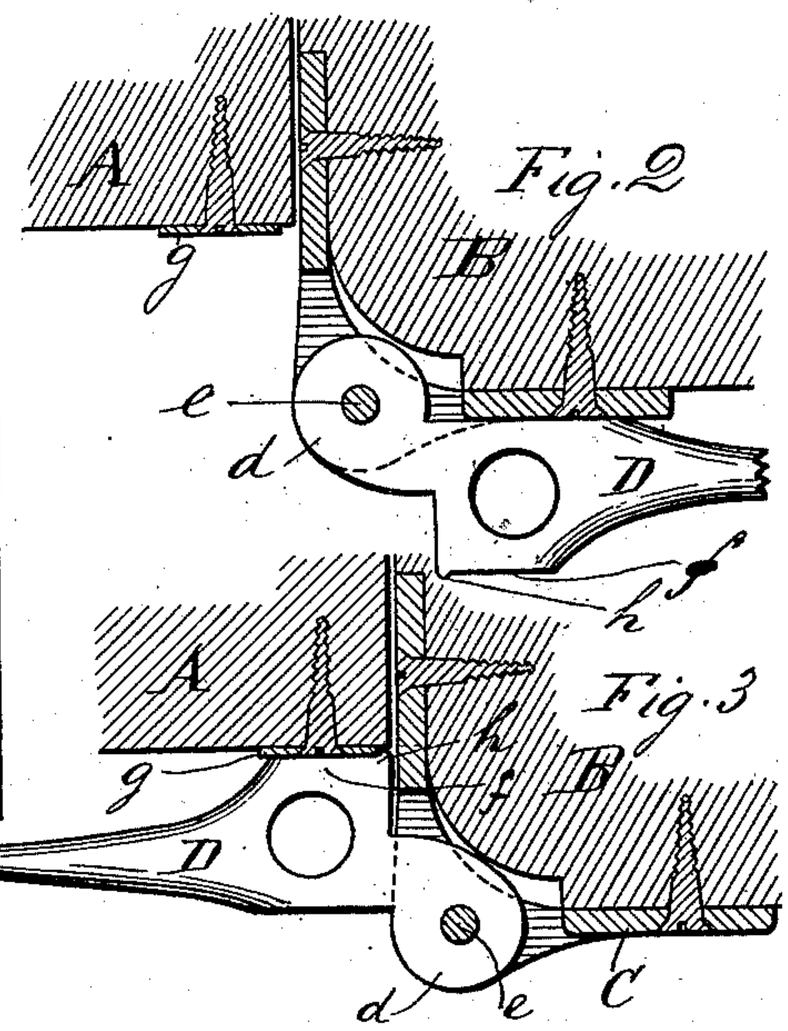

Fig. 2

Fig. 3

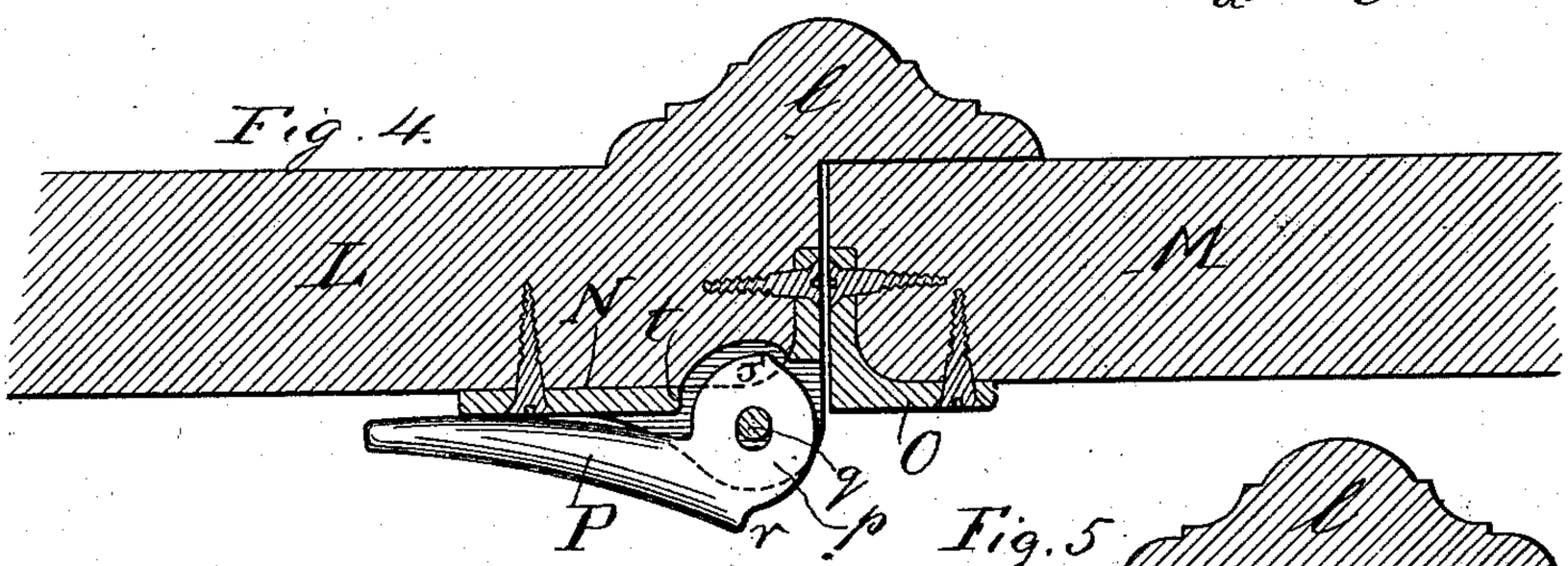

Fig. 4

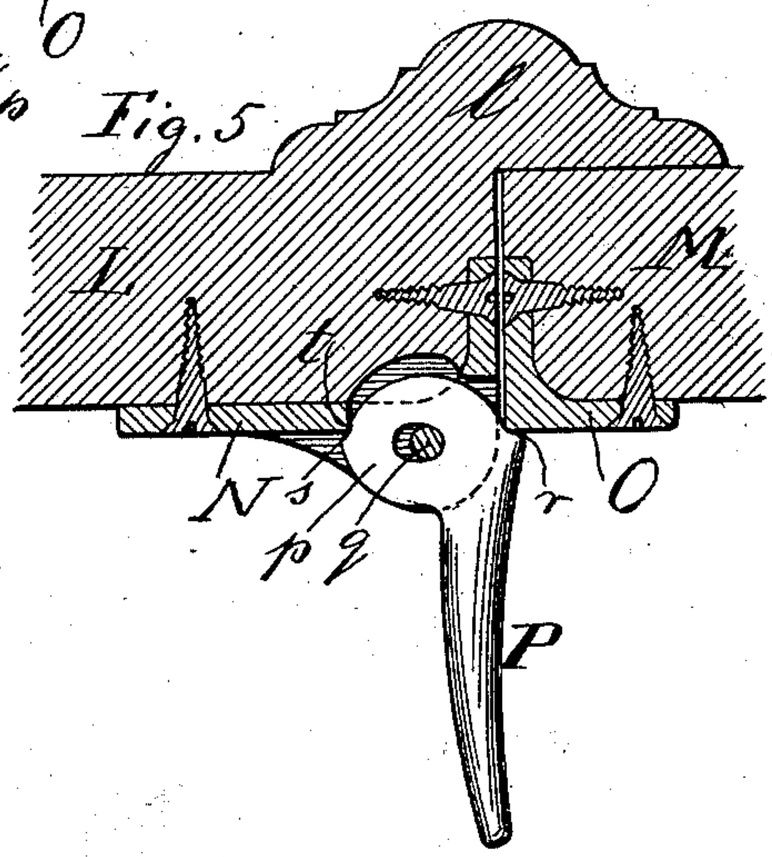

Fig. 5

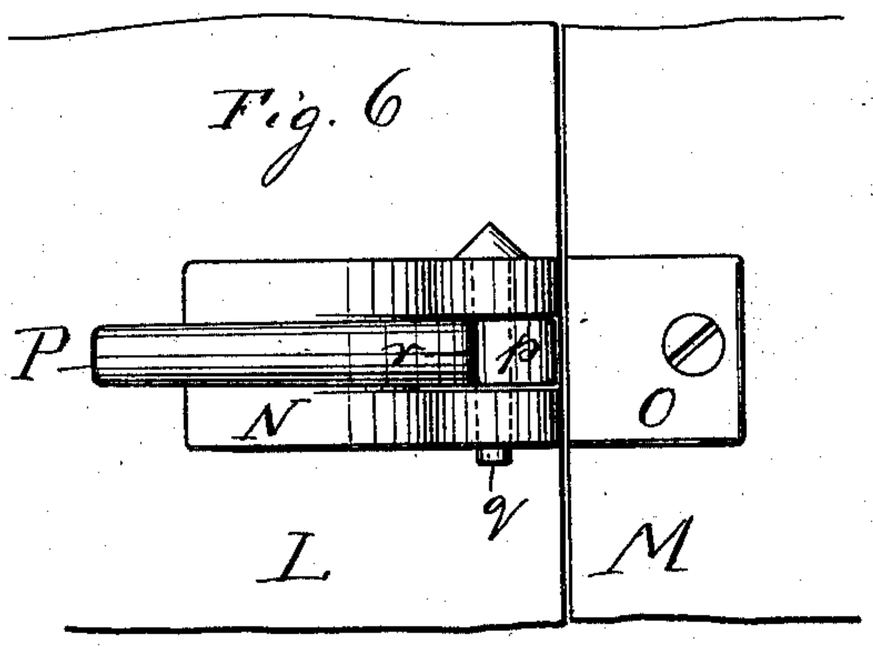

Fig. 6

Witnesses:
Otto Lubkert
Jno A. Johnson

Inventors:
Daniel J. Millemann
Daniel G. Millemann
By Wm H Lotz
attorney

UNITED STATES PATENT OFFICE.

DANIEL J. MILLEMANN AND DANIEL G. MILLEMANN, OF JEFFERSON, ILLINOIS.

LATCH.

SPECIFICATION forming part of Letters Patent No. 406,588, dated July 9, 1889.

Application filed March 15, 1889. Serial No. 303,497. (Model.)

To all whom it may concern:

Be it known that we, DANIEL J. MILLEMANN and DANIEL G. MILLEMANN, citizens of the United States of America, residing at Jefferson, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Door-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has for its object to provide a device for securely locking a door during night-time, so as to prevent burglars from entering, and at the same time to press and hold the door close against the rabbet of the door-casing, which is desirable, particularly in winter-time, with doors leading outside and therefore being exposed on one side to the cold dry atmosphere and on its other side to the warm damp air in the house, causing such door to warp; and with these objects in view our invention consists of the novel devices and combinations of devices hereinafter described and specifically claimed.

In the accompanying drawings, Figure 1 represents a door with our fastening attached. Fig. 2 is a sectional top view of the fastener turned open, and Fig. 3 the same when closed. Figs. 4, 5, and 6 show a modification of the fastener adapted for folding doors, in which Fig. 4 is a sectional top view of the same turned open, Fig. 5 of the same when closed, and Fig. 6 an elevation of the fastener as turned open.

Corresponding letters in the several figures of the drawings designate like parts.

In Figs. 1, 2, and 3, A denotes the door, and B the door-casing, to which is secured vertically at any desired position an angle-plate C, providing in its corner a slotted swell for receiving the hub *d* of a lever D, pivotally secured in said slot by a pin *e*. This lever D has a square offset *f*, which, being swung upon the door A, will butt flat against an iron plate *g*, secured by wood-screws against said door, and this square offset *f* has a small flange or fin *h*, formed on its edge toward the fulcrum, so that when the lever D is swung upon the door this flange or fin *h* will engage the edge of plate *g*, locking the lever D against being swung back from any pressure applied against the outside of the door, such pressure constantly increasing its hold, while during the time no pressure is applied to the door the flange or fin *h* will readily disengage by swinging the lever D. With this lever D, it will be noticed, considerable force may be exerted for pushing the door against its rabbet and holding it there, so that said door cannot warp and will fit perfectly tight.

The device shown in Figs. 4, 5, and 6 is intended for folding doors, in which L denotes the leaf secured when closed by top and bottom bolts, and M the leaf provided with a latch and lock and closing on a rabbet *l* of leaf L. The door-leaves L and M being flush when closed for the purpose of securely locking one to the other, we secure an angle-plate N to the corner of leaf L and an angle-plate O to the corner of leaf M, with the meeting sides of angle-plates N and O sunk into the wood. At its corner the angle-plate N has a slotted swell for receiving the hub *p* of a handle P. This handle P has a tangential position to hub *p*, and said hub *p* is oval, with an oblong hole through its middle for pivotally securing it by a pin *q* in the slot of plate N, and at the root of the handle it has formed a shoulder *r*, and diametrically opposite to shoulder *r* the hub *p* has formed another shoulder *s*, both these shoulders being on the line of said hub *p*, where it has the largest diameter, and also in line with its oblong pivot-pin hole, which largest diameter between shoulders *r* and *s* being the same distance as that between the corner *t* of the slotted opening in plate N and the corner of angle-plate O. By swinging the handle P one-quarter of a revolution the shoulders *r* and *s* will bear upon these corners and will hold the leaf M securely against the rabbet *l* of leaf L, so that a pressure from the opposite side against leaf M will only tend to increase the hold of the fastening, which, however, can be easily released by swinging handle P, whereby the cam-shaped hub *p* will readily disengage from plate O.

These fastenings, as will be seen, are very simple in their construction, are easily at-

tached to a door, and will provide secure fastenings for the same.

What we claim is—

The combination, with a door and casing, of an angle-plate C, secured against the casing and having pivoted thereon the hub of a lever D, provided with square offset *f*, and fin *h*, engaging with plate *g* of the door, all substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

DANIEL J. MILLEMANN.
DANIEL G. MILLEMANN.

Witnesses:
WILLIAM H. LOTZ,
OTTO LUBKERT.