

(No Model.)

S. IDE.
LATCH.

No. 313,594.

Patented Mar. 10, 1885.

Fig. 1.

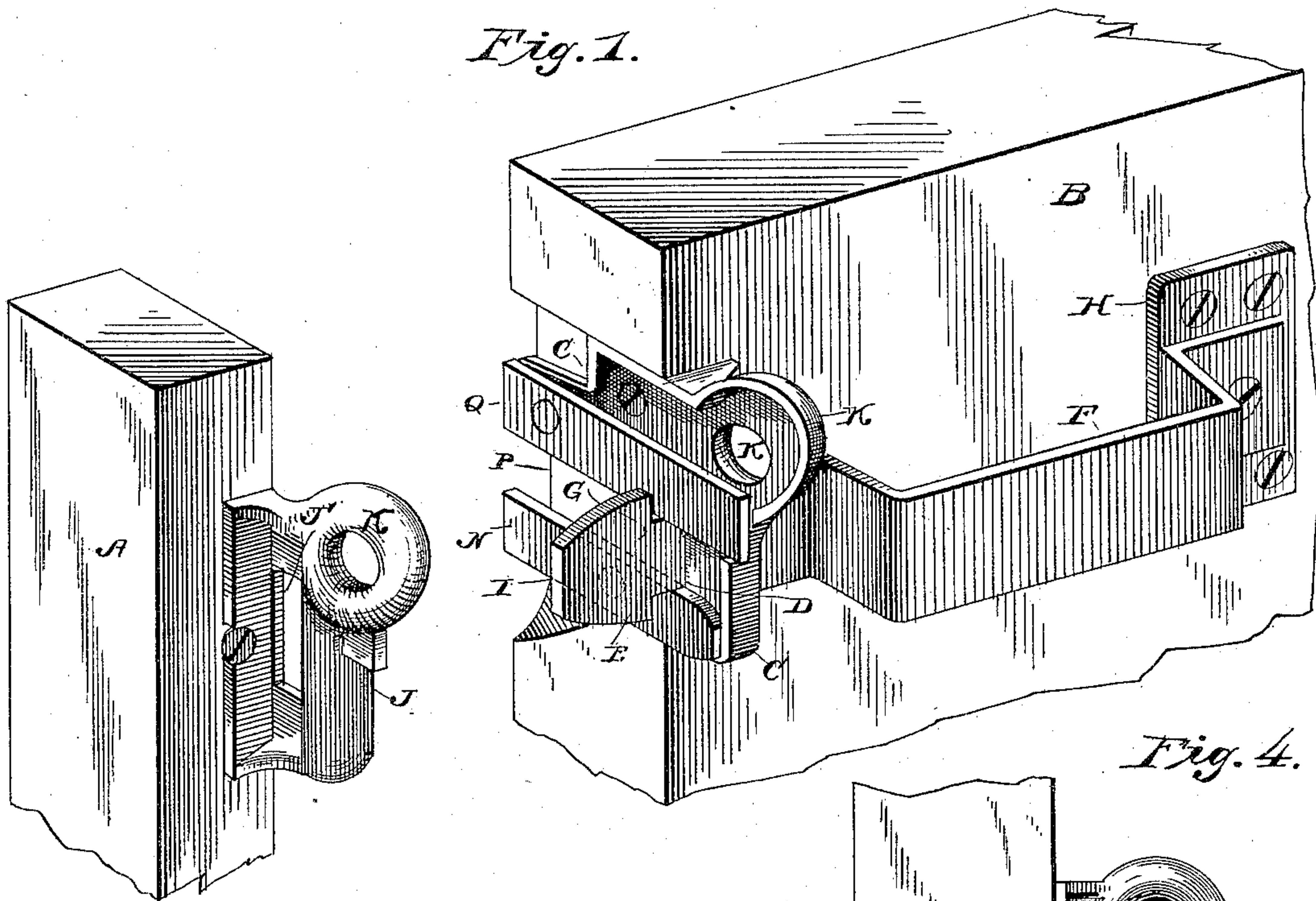


Fig. 3.

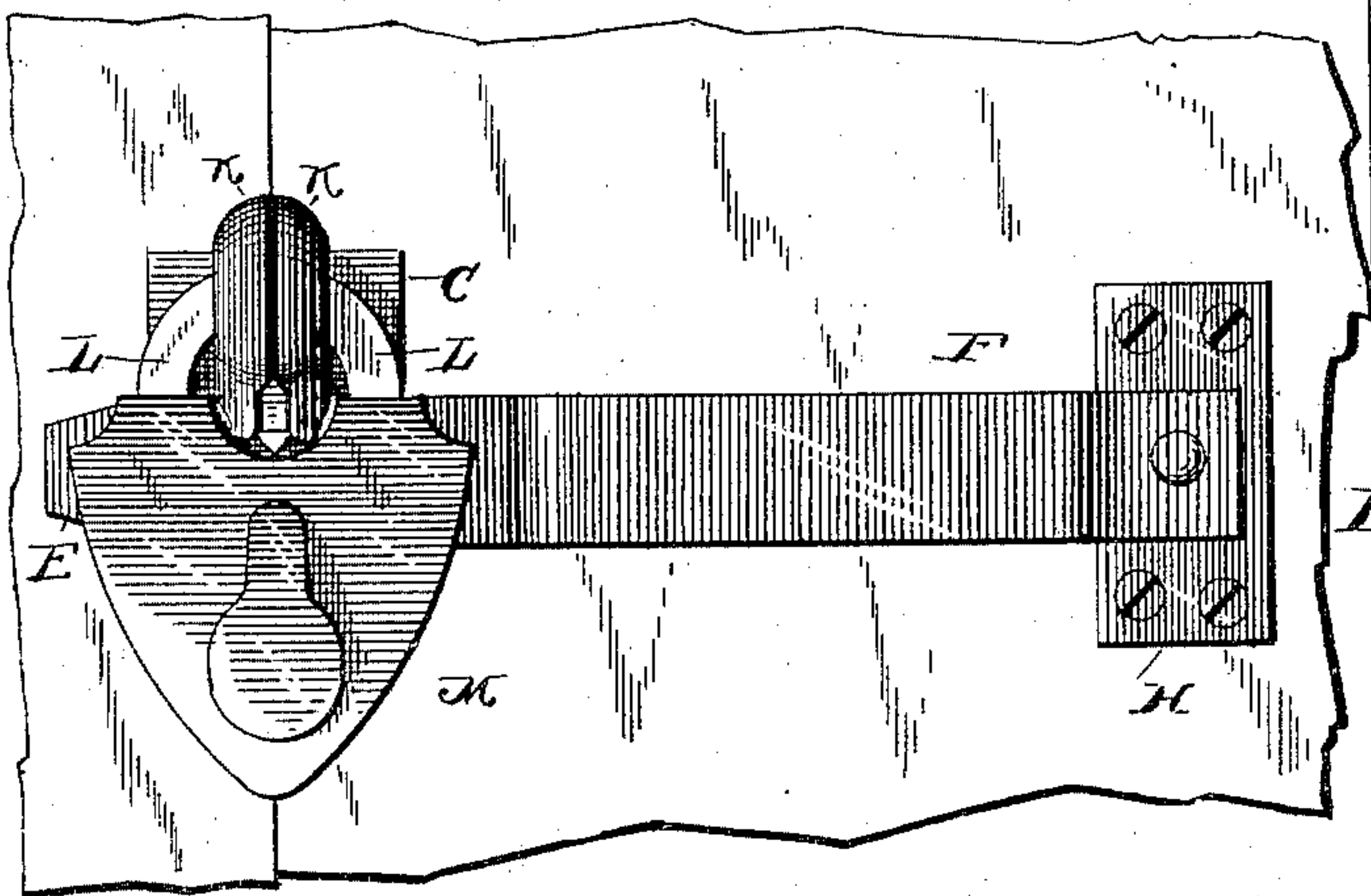


Fig. 4.

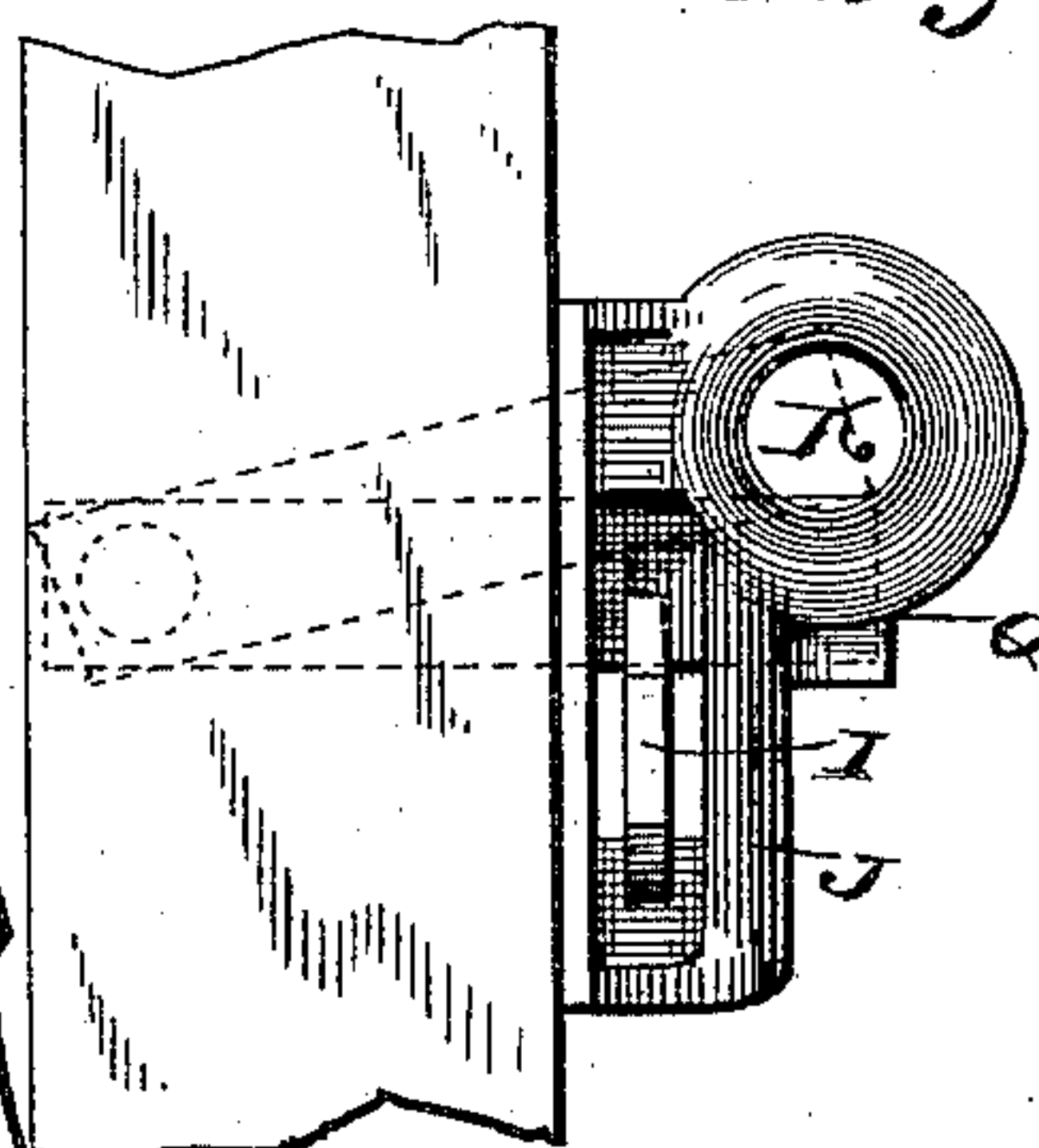
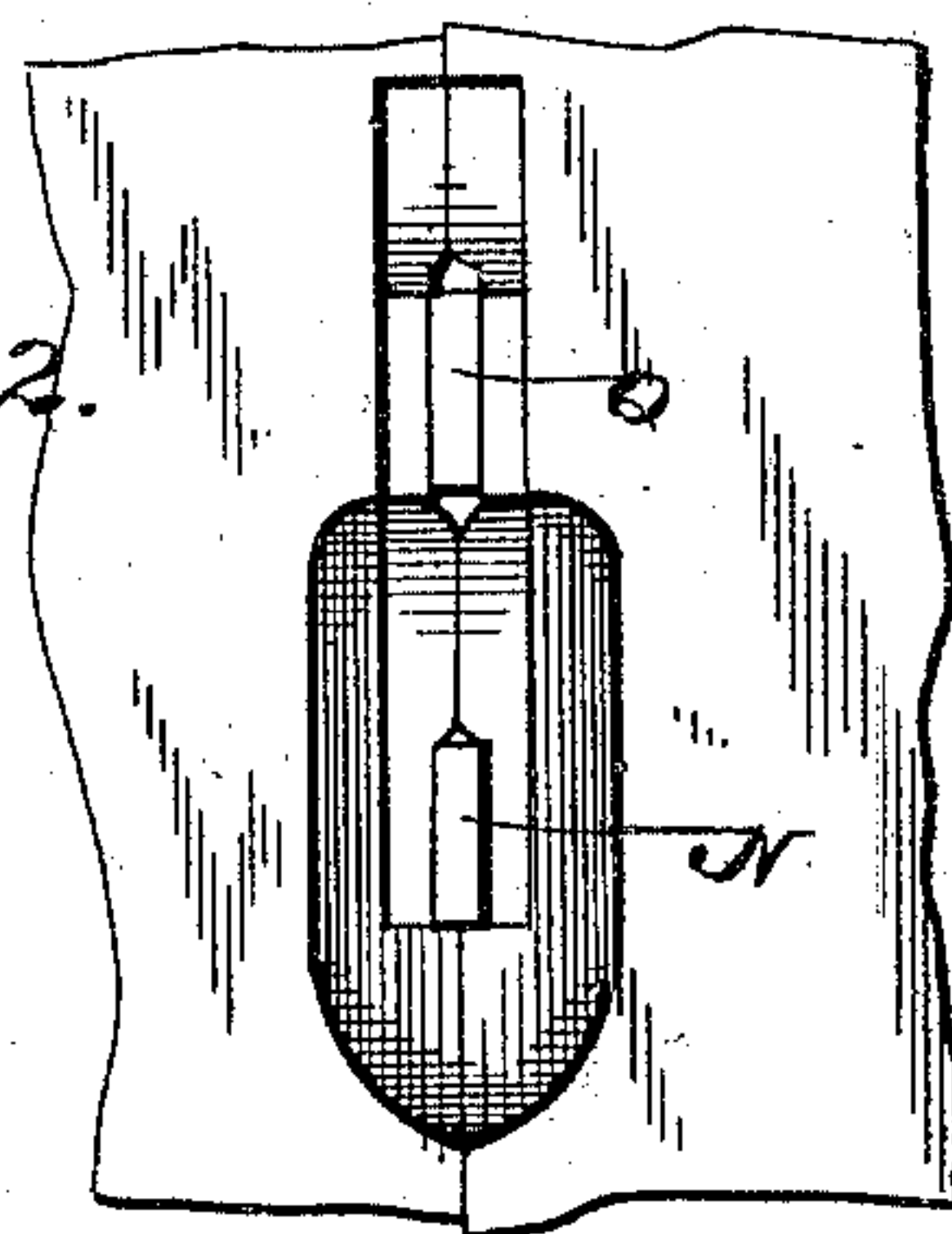


Fig. 2.



WITNESSES

W. Mortimer.
Edward S. Siggers.

INVENTOR

Samuel Ide
by *C. A. Snow & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

SAMUEL IDE, OF MEDINA, NEW YORK.

LATCH.

SPECIFICATION forming part of Letters Patent No. 313,594, dated March 10, 1885.

Application filed November 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL IDE, a citizen of the United States, residing at Medina, in the county of Orleans and State of New York, have invented a new and useful Improvement in Door Latch and Handle, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improved door-latch and door-handle combined, which is especially designed for sliding doors—i. e., doors hung on rollers, &c.—and is applicable to both double and single doors of the class referred to; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of the combined latch and handle applied to a sliding door and the keeper on the door-casing, the door being open to disclose the parts of the latch and handle. Fig. 2 is a view in elevation taken from the side opposite that to which the latch is pivoted, the door being closed. Fig. 3 is an elevation showing the door closed and the padlock applied; and Fig. 4 is an end elevation of the door-casing with the door in a closed position, the operation being indicated in dotted lines.

Referring by letter to the accompanying drawings, A designates the door-casing, and B a sliding door of the class hung with rollers.

C designates a casting, which is secured to the edge of the door B, and this casting C is provided with a vertical slot, D, through which the latching end E of the combined latch and handle F projects, and within which the neck G of said latch and handle F works. The latch and handle F is bowed between its ends to form the handle portion, and is pivoted to a wear-plate, H, secured to the door. The head I of the latch and handle F is shaped somewhat similar to an arrow-head, but is not so pointed. It is only necessary that it should be curved on its lower edge to insure its easy entrance into the keeper J, secured to the door-casing A.

It will be obvious to an observer that where double sliding doors are used, instead of securing the keeper J to the door-casing, it should be secured to the other door directly opposite to the latch and handle F without departing from the character of the inven-

tion. The keeper J has a vertical slot, J', within which the locking end of the latch and handle F rests when the door is closed. The castings C and J are each provided with a lug, K, at the upper end for the passage of the link L of the padlock M.

To the face of the casting C, at a point below the latch F, I pivot the thumb-piece N, which projects forward under the neck of the latch and handle F, and rearward as far as the face of the door, which (the door) is provided with a recess, P, which permits of ready access to the thumb-piece N from that side of the door, in order that the door may be opened from that side as well as from the other side. The thumb-piece N is pivoted near the middle of its length.

Above the neck of the latch and handle F, a second short lever, Q, is pivoted, the pivotal point being near the end of said lever Q farthest from the neck of the latch. When the padlock is in place, its link bears down upon the short lever Q and holds the door firmly closed, whereas the bow of some locks is so large that it will allow the door to open an inch or more while the lock is in place.

The latches are made to be used as rights and lefts by attaching the lever and thumb-piece to either right or left cast plate.

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

1. The combination, with the pivoted latch and handle, of a casting, C, having a slot for the passage of the head of said handle, a keeper adapted to receive said head, a lever, and a thumb-piece, substantially as set forth.

2. The combination, with the pivoted latch and handle, having head I, of the casting C, having a slot for the passage of said head, thumb-piece N, lever Q, a keeper, and lugs on the keeper and casting, said lugs having openings for the reception of a padlock, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

SAMUEL IDE.

Witnesses:

FRANK CARPENTER,
MARTIN SMITH.