

(Model.)

C. WORMUTH.
DOOR AND GATE LATCH.

No. 292,727.

Patented Jan. 29, 1884.

Fig. 1.

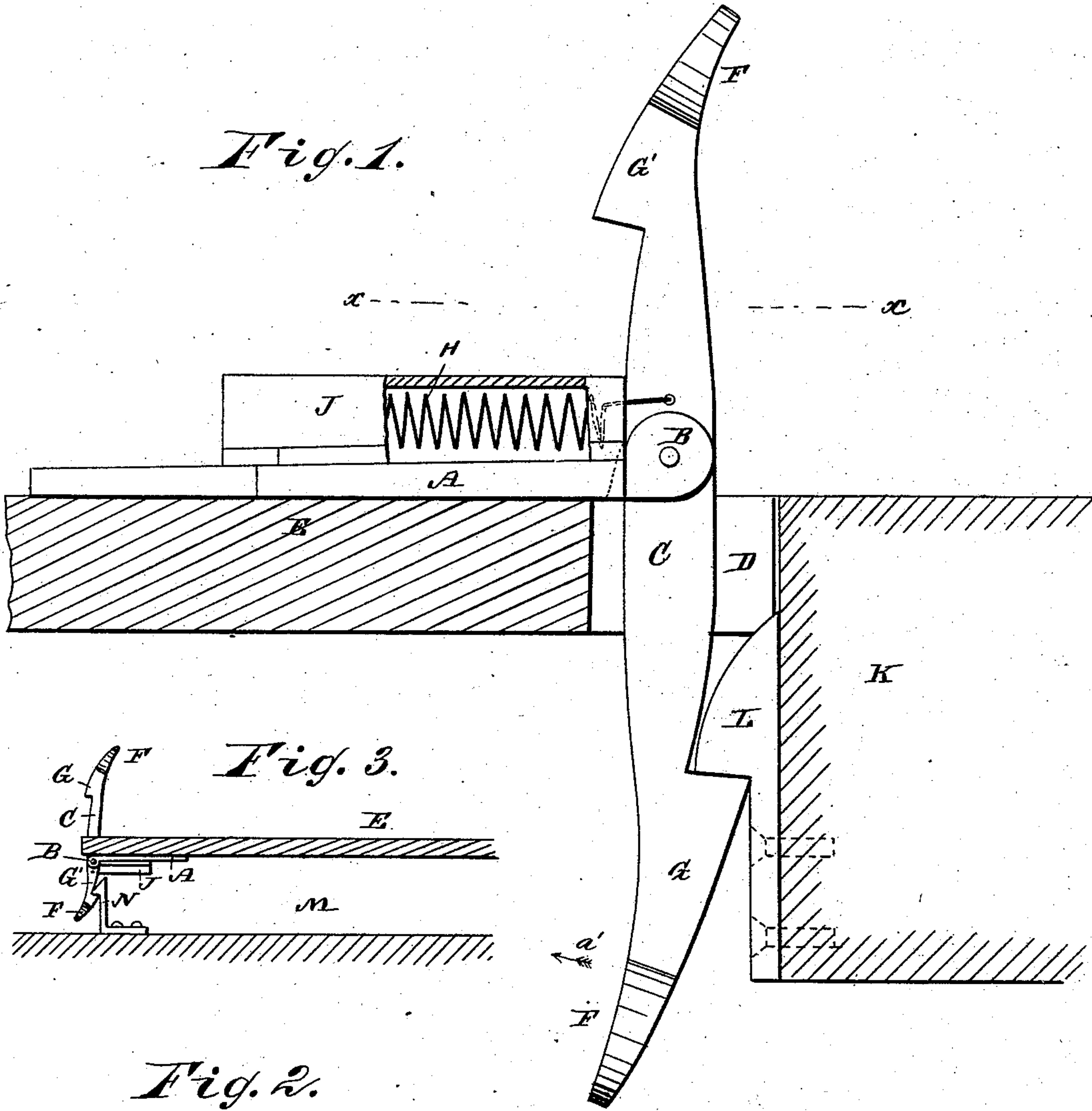


Fig. 3.

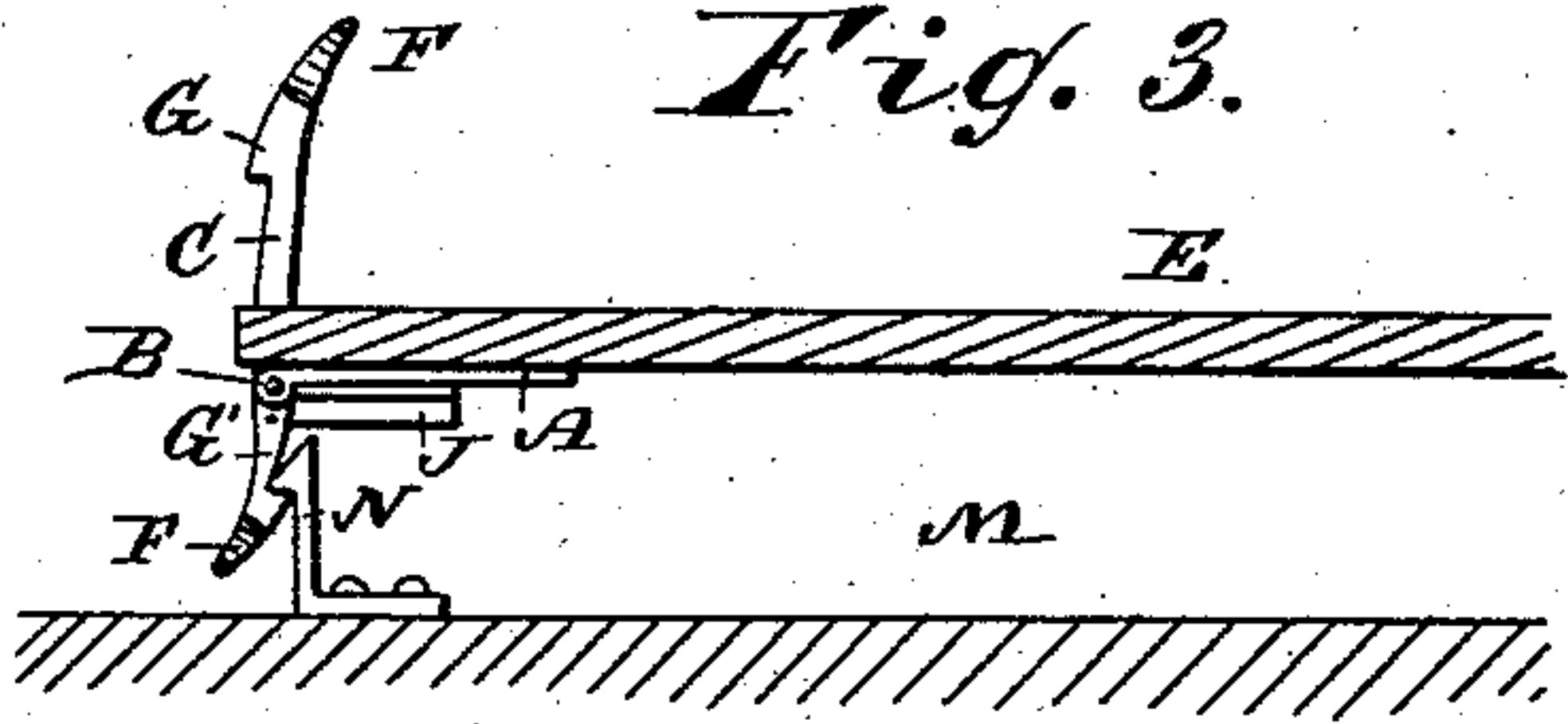
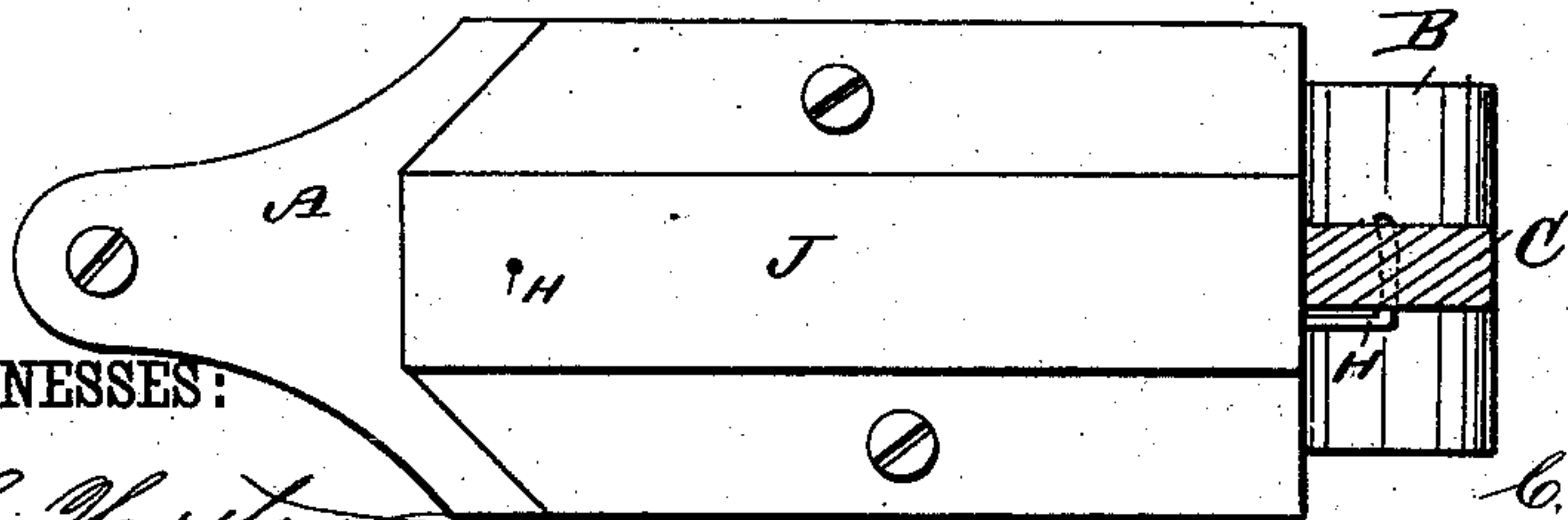


Fig. 2.



WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

CHARLES WORMUTH, OF LITTLE FALLS, NEW YORK.

DOOR AND GATE LATCH.

SPECIFICATION forming part of Letters Patent No. 292,727, dated January 29, 1884.

Application filed November 8, 1883. (Model.)

To all whom it may concern:

Be it known that I, CHARLES WORMUTH, of Little Falls, in the county of Herkimer and State of New York, have invented a new and Improved Latch, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved latch which is simple in construction, strong and durable, and which can be used to hold a door or gate opened or closed.

The invention consists in certain improvements in that class of latches which are provided with reversely-hooked ends for engaging catches on the door or gate frame and the wall, respectively, as will be hereinafter fully described, and specifically set forth in the claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan of my improved latch, showing it secured in a door, part of the latch and the door being shown in section. Fig. 2 is a face view of the casing containing the latch-spring, parts being shown in section on line *x x*, Fig. 1. Fig. 3 is a sectional plan view of the door, showing it opened.

A plate, A, is provided at one end with a fork, B, and between the prongs of the said fork a lever, C, is pivoted, which passes through a notch, D, in the edges of the door E, to which the plate A is fastened. The lever C is provided at each end with a finger-plate, F, and with a prong, G or G', forming a shoulder, the hook-prong G on the end of the lever C to the inside of the door projecting toward the free edge of the door, and the prong G' on the outer end of the lever projecting from the free edge of the door. A casing, J, is secured on the plate E, and in the said casing one end of a spring, H, is fastened, the other end of which is fastened to the lever C at a point a short distance in front of—that is, toward the outside from the front of—the lever C, thus pressing the inner end of the lever C

against the jamb or door-frame K, on which a shouldered catch, L, is fastened, which has one end beveled from the outer toward the inner surface of the door-frame. On the wall M of the building a catch or bevel-headed stud, N, is secured. If the door is closed, the beveled end of the prong G on the inner end of the latch-lever C slides on the beveled end of the latch L until the offset formed by the prong G has passed the offset formed on the latch L. The spring H then snaps the latch toward the jamb or door-post, and thus locks the door in place. If the door is to be opened, the inner end of the lever C is moved in the direction of the arrow *a'*, or the outer end is moved in the inverse direction of the arrow. If the door is swung open, the outer prong, G', of the lever C catches on the head-stud or catch N on the wall of the building, thus holding the door open. The latch is fastened to the door by the same screws that secure the spring-casing. The latch can be applied on a right or left hand swinging door.

I am aware that it is not new, broadly, to provide a door, shutter, or gate with a pivoted reversely-hooked latch for engaging a catch on the door, window, or gate frame and the wall, respectively, and I do not desire to claim such, broadly, as of my invention.

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

In a latch, the attaching-plate A, provided with lugs B, between which and at right angles to said plate A is pivoted the reversely-hooked latch C, the said plate A being further provided with a removable spring-containing case, to one end of which the spring is secured, said spring being secured at its other end to the latch, in combination with the catches L N on the door-post and wall, respectively.

CHARLES WORMUTH.

Witnesses:

AMOS WORMUTH,
HENRY STARING.