GEORGE N. SHARP.

Improvement in Latches for Gates, &c.

No. 128,075. Patented June 18, 1872.

Fig. 1.

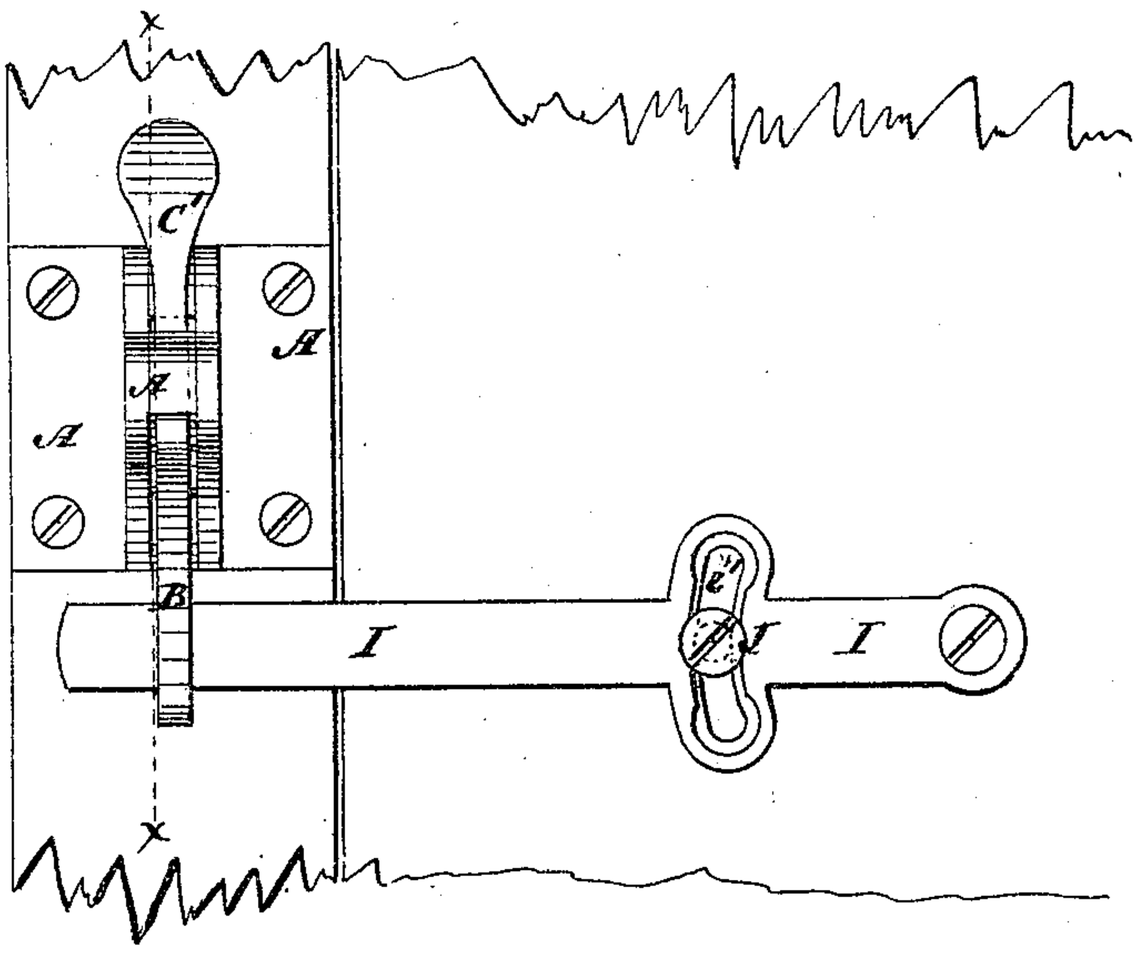
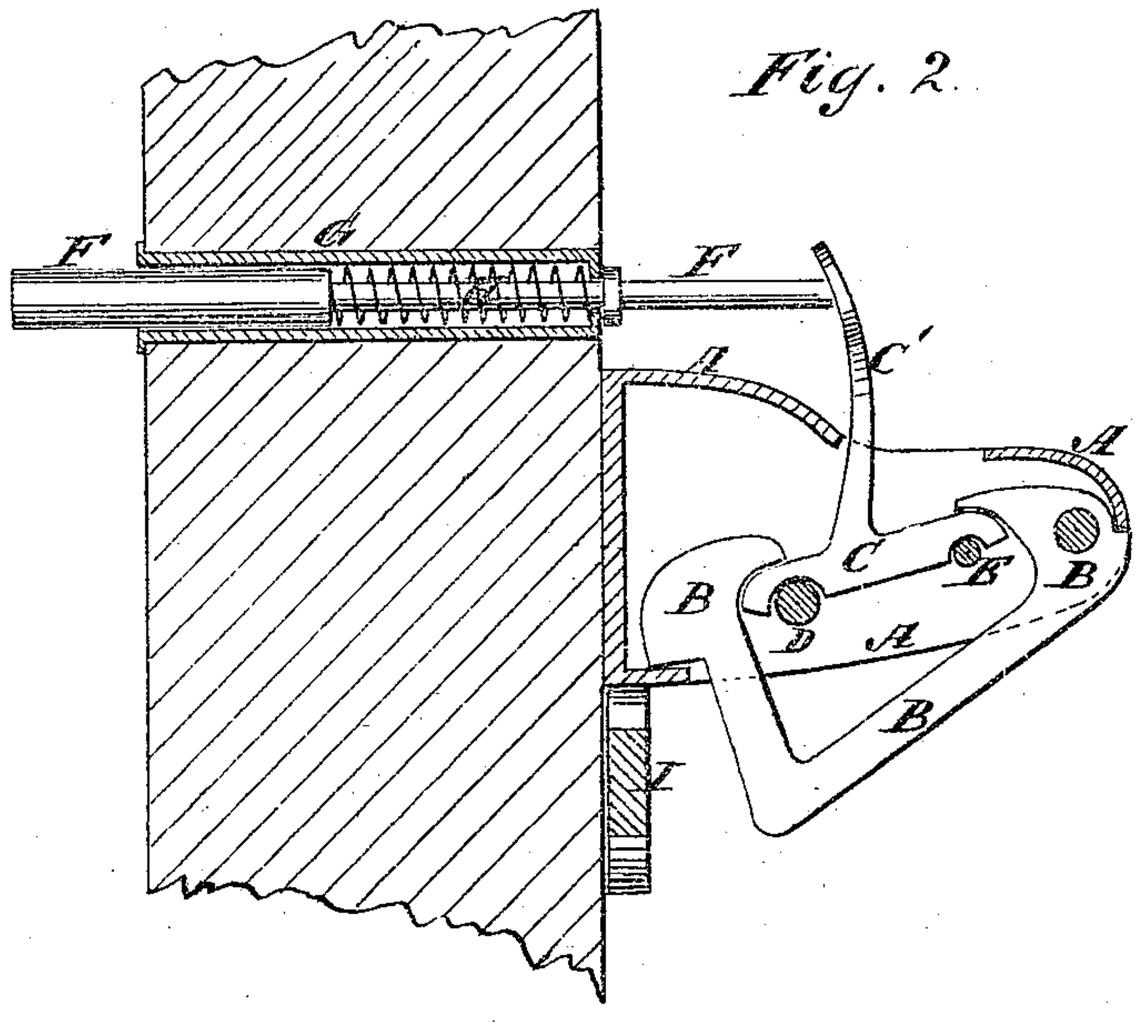


Fig. 2.



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128,075

UNITED STATES PATENT OFFICE.

GEORGE N. SHARP, OF LA PLATA, MISSOURI.

IMPROVEMENT IN LATCHES FOR GATES, &c.

Specification forming part of Letters Patent No. 128,075, dated June 18, 1872.

Specification describing a new and useful Improvement in Latch for Doors, Gates, &c., invented by GEORGE N. SHARP, of La Plata, in the county of Macon and State of Missouri.

Figure 1 is a front view of my improved device. Fig. 2 is a detailed sectional view of the same taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention consists in the arrangement of a spring push-bar in the casing of a door to adapt it to act upon a catch or device used for locking the door-latch; and it also consists in the arrangement of said locking device with a lever on which the push-bar acts.

A is the case of the catch, which is made with flanges, by which it is secured to its place by means of screws, nails, or bolts, as shown in Fig. 1. B is the catch, which is made in about the form shown in Fig. 1—that is to say, with an inclined outer side and a nearly vertical rear side, so that when the door or gate to be fastened is swung shut the latch, striking upon the inclined forward side of the catch B, may raise said catch and pass beneath it. The catch B is pivoted at its forward end, has inwardly-projecting hooks formed upon the upper ends of its arms, which hook over the rounded ends of the lever C, which ends rest upon bolts, screws, or rivets D E passing through the case A from side to side. Upon the middle part of the lever C is formed an arm or thumb-piece, *c'*, which passes up through a slot in the upper edge of the case A, so that it may be conveniently operated to raise the catch B and release the latch, allowing the gate or door to be swung open. By making the slot in the upper edge of the case A long, the catch B may be raised by moving the arm *c'* in either direction; and by pivoting the lever C near its inner end the catch B may be raised by moving the said arm or thumb-piece inward. The catch B can also be raised by pivoting it near its outer end, or by raising the arm C perpendicularly. The lever C *c'* may be operated to raise the catch B from the inner side of the door or gate by means of a push-bar, F, which passes through a tube, G, passing through the door or gate-post, as shown in Fig. 2, so that by pushing the rod F outward the catch B may be raised. H is a coiled spring placed in the tube G, with one end resting against the forward end of the tube G and its other end resting against a shoulder formed upon the said rod F, so as to draw the rod F back as soon as the pressure upon its inner end is removed. I is the latch, the inner end of which is secured to the door by a screw. In the body of the latch I is formed a transverse slot, *i'*, in which are countersunk one or more holes to receive a screw, J, so that the forward or engaging end of the latch I may be raised or lowered to adjust it to any sag or upheaval of the door or gate or of the post.

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

1. In combination with the latch I, the catch B, pivoted at its outer end in the case A, and having projecting ends bearing upon the lever C, said lever resting on the rods D E and having the thumb-piece *c'*, all as shown and described, to operate as specified.

2. The combination of the push-bar F, tube G, and coiled spring H with the lever C *c'*, catch B, and case A, substantially as herein shown and described, and for the purpose set forth.

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