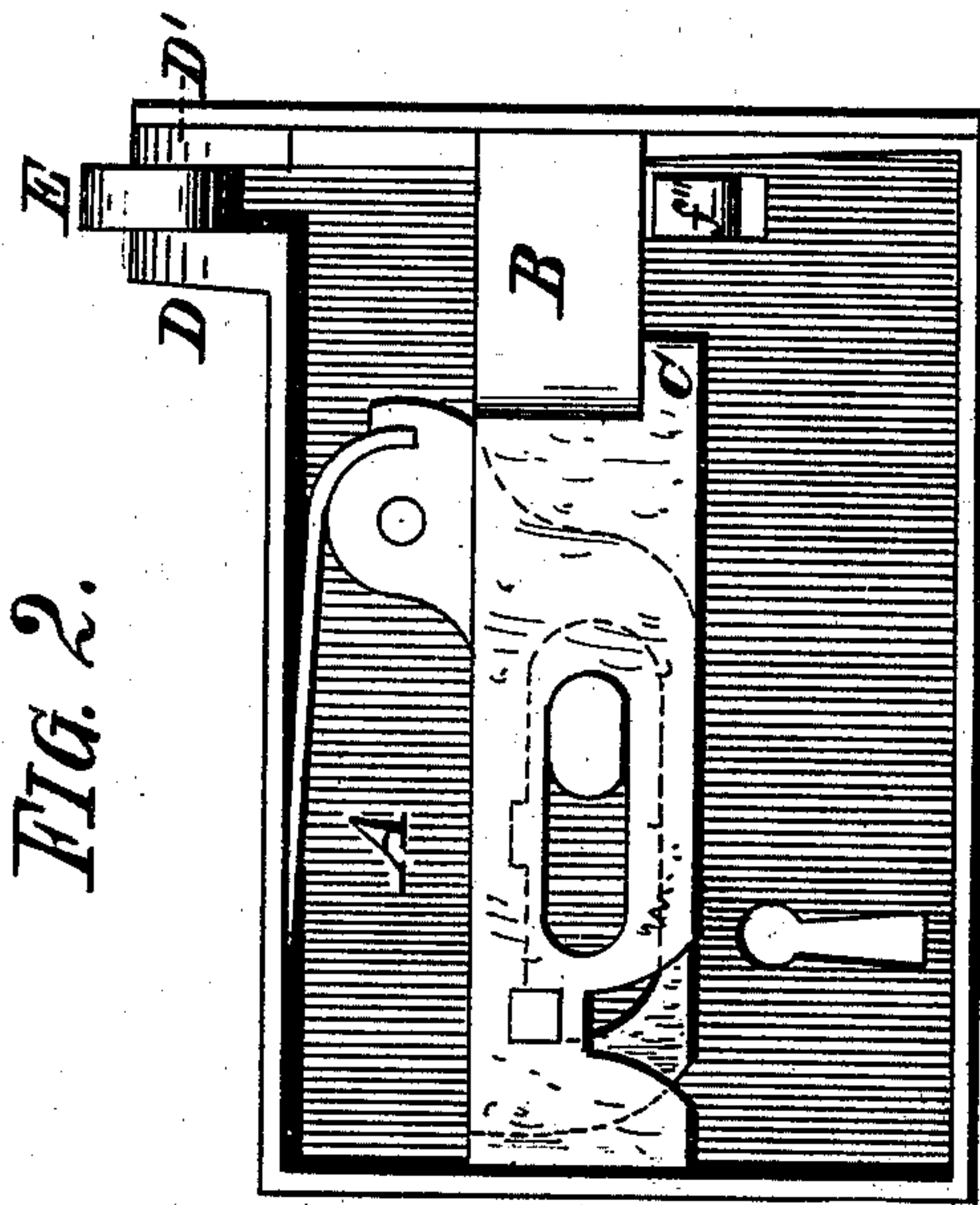
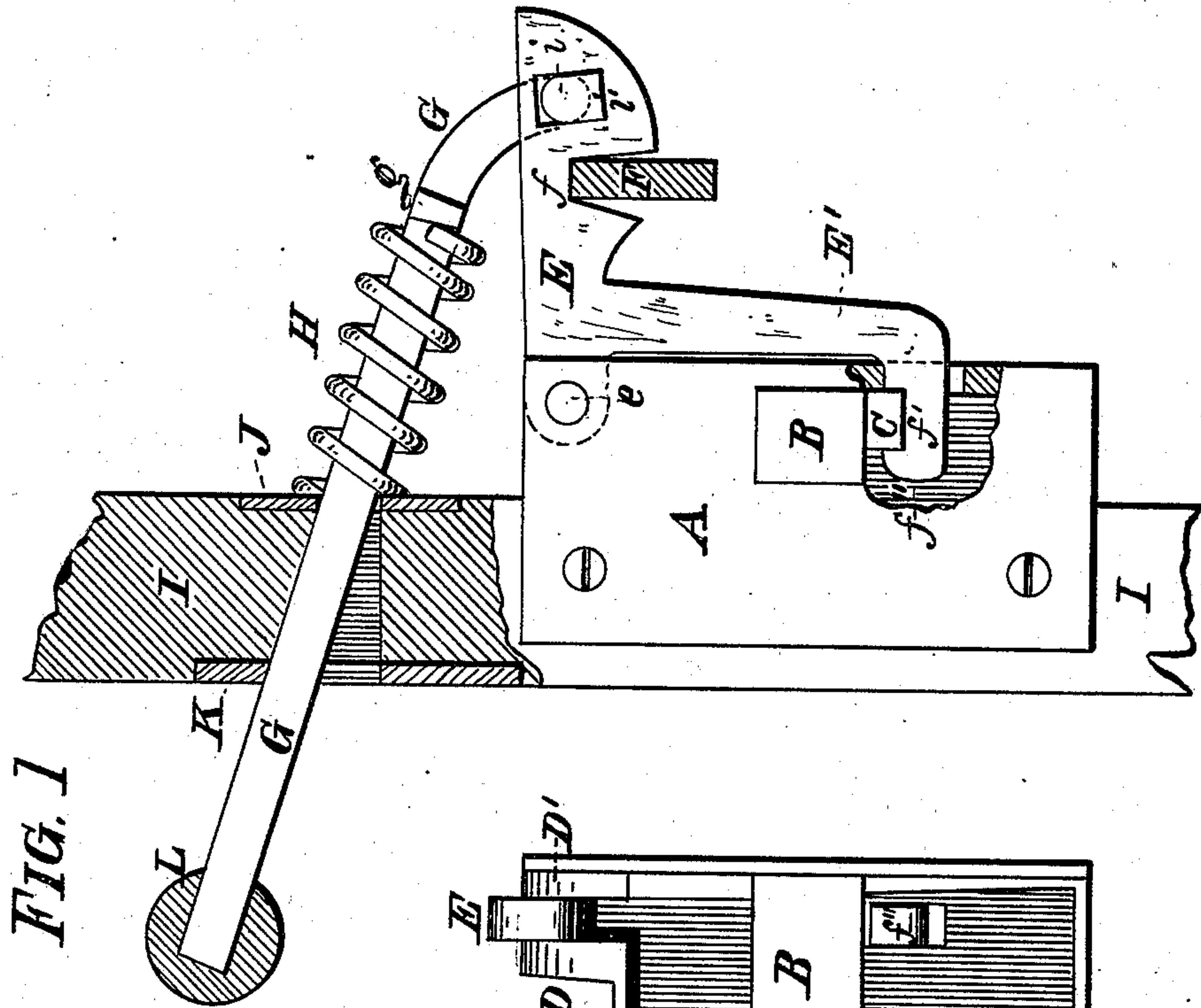


J. HARTEL, Jr., & C. WOLGAST, Jr.

Lock for Doors.

No. 214,773.

Patented April 29, 1879.



Witnesses:

Michael Stark-
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UNITED STATES PATENT OFFICE.

JACOB HARTEL, JR., AND CHARLES WOLGAST, JR., OF AMHERST, NEW YORK.

IMPROVEMENT IN LOCKS FOR DOORS.

Specification forming part of Letters Patent No. 214,773, dated April 29, 1879; application filed March 17, 1879.

To all whom it may concern:

Be it known that we, JACOB HARTEL, Jr., and CHARLES WOLGAST, Jr., both of Amherst, in the county of Erie and State of New York, have invented certain new and useful Improvements on a Barn and Stable Door Lock; and we do hereby declare that the following description of our said invention, taken in connection with the accompanying sheet of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has special reference to barn and stable door locks; and it consists in the peculiar construction and arrangement of parts, as hereinafter first fully set forth and described, and then pointed out in the claims.

In the drawings already referred to, Figure 1 is a partial section of a barn-door, showing our lock in position. Fig. 2 is a face view of the lock, the face-plate being removed.

Like parts are designated by similar letters of reference in both figures.

A is the casing of an ordinary door-lock as now in use. It has the bolt B and other interior parts the same as other locks, and does not differ therefrom except that the said bolt B has a catch-part, C, and the casing A two lugs, D D', within which is pivoted a bell-crank lever, E, by the pin *e*. This lever E has a notch, *f*, wherewith it engages a staple or other catch, F, fixed to the door-framing in any suitable manner. The forward part of this lever is beveled, and has an aperture, *i*, for the reception of the pin *i'*, on a rod, G, provided with a knob, L, of any desired form or shape. This rod G has projections *g*, serving as a stop for a spiral spring, H, interposed between said projections and the escutcheon J, fastened on the inner side of the door I. This escutcheon has an aperture fitting the rod G, and serves as a fulcrum for said rod.

On the outside face of the door I is placed an escutcheon, K, having a slotted passage to allow the rod G to be depressed when actuated in that direction.

The arm E' of the bell-crank E has a curved projection, *f'*, and a nose, *f''*, passing through the casing A, and constructed to engage the projection C on the bolt B, as shown in Fig. 1.

In operation, the bolt B being upon the unlocking-point, the projection C has disengaged the hook *f''*, and allows the knob L to be depressed, which, in turn, causes the notched lever E to disengage the staple F, so that the door I can be opened, the spring H again returning the parts to their normal position as soon as the knob L is liberated.

In closing the door the inclined part of said lever E slides up on the staple F until it can drop into the notch *f*. In this position the bolt B can be locked, and will thus also lock the bell-crank E by the catch C engaging the nose *f''*, and thus lock the door both by the bolt and the bell-crank lever.

A lock of the kind described may be readily produced, and can be manufactured at a cost but little exceeding that of other desirable locks.

Having thus fully described our invention, we claim as new and desire to secure to us by Letters Patent—

1. The combination, with the door-lock A, having the lugs D D', and the bolt B, provided with the catch C, of the bell-crank lever E, provided with the notch *f*, and the member E', with the catch *f''*, the whole being constructed to operate substantially as and for the purpose specified.

2. The combination, with the door-lock A, the bolt B of which is provided with a catch, C, of the bell-crank lever E and the rod G, having the handle L, as and for the object stated.

3. In barn and other door locks, the combination, with the main lock, of the bell-crank lever E, engaging the staple F, and provided with the knob L, said bell-crank E being locked by the door-lock, substantially as and for the purpose specified.

In testimony that we claim the foregoing as our invention we have hereto set our hands and affixed our seals in the presence of two subscribing witnesses.

JACOB HARTEL, JR. [L. S.]
CHAS. WOLGAST, JR. [L. S.]

Attest:

MICHAEL J. STARK,
J. A. MCINTOSH.