

(No Model.)

C. F. GREEN.
INDICATOR LOCK.

No. 343,901.

Patented June 15, 1886.

Fig. 1.

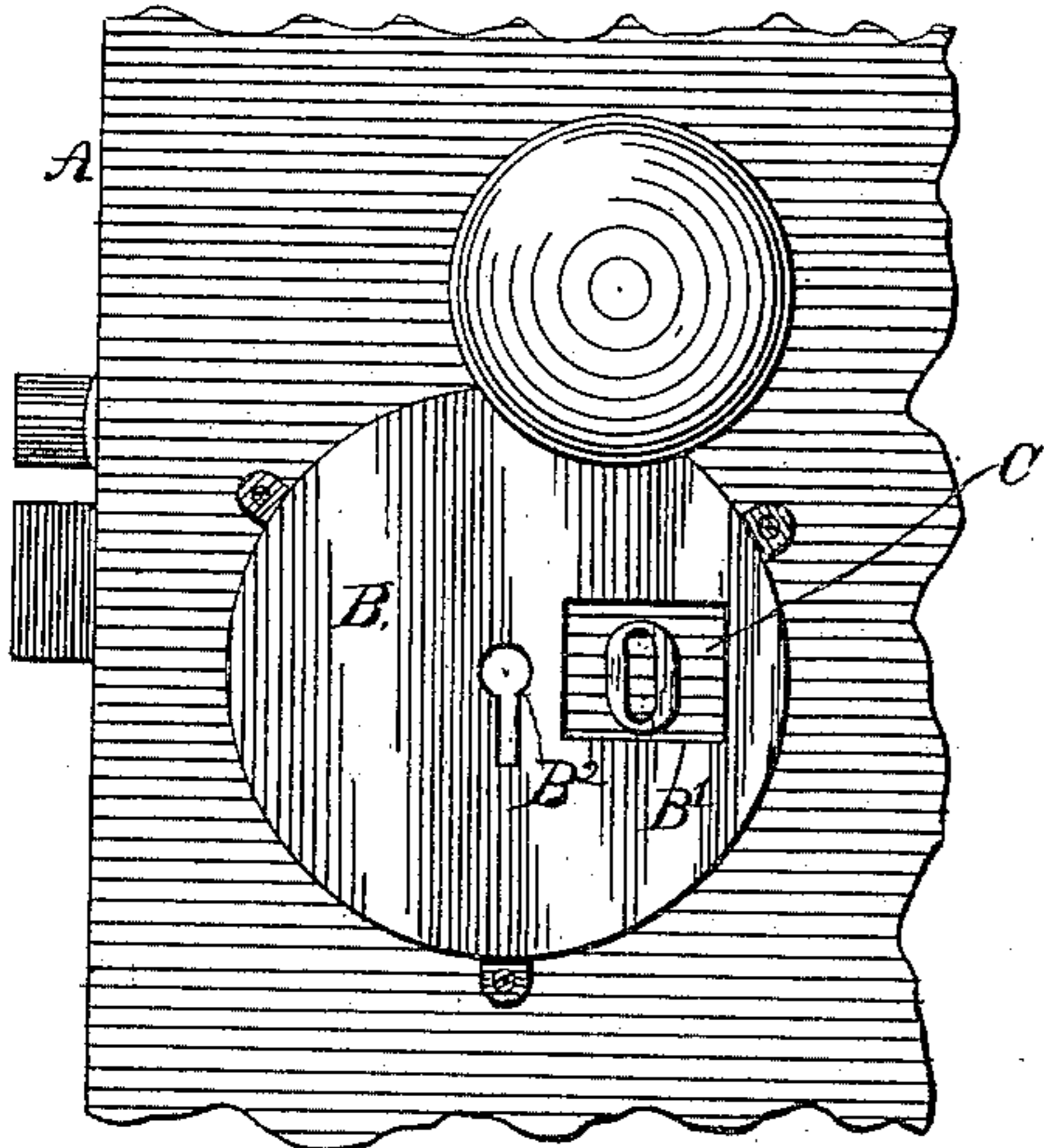


Fig. 2.

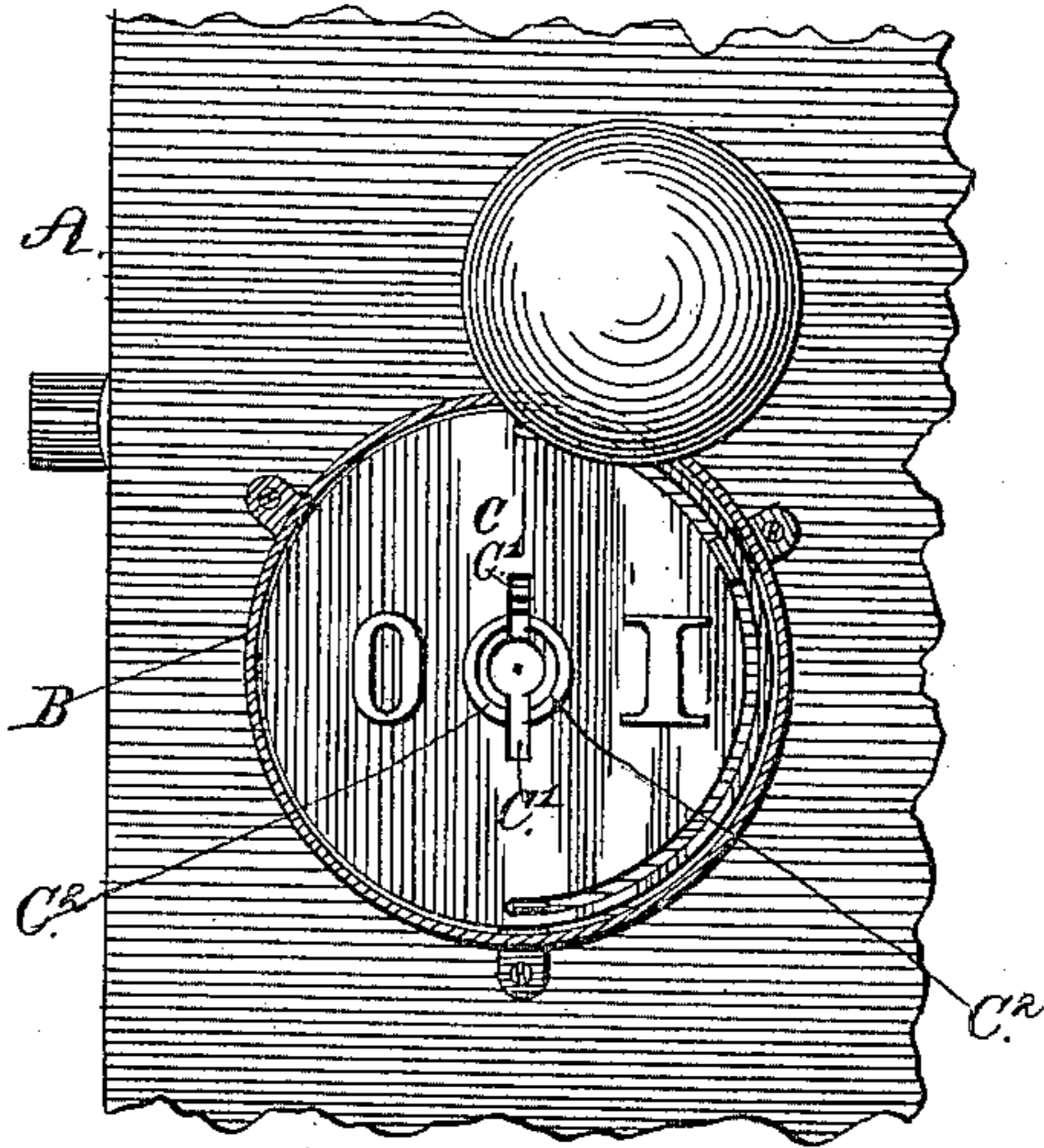


Fig. 3.

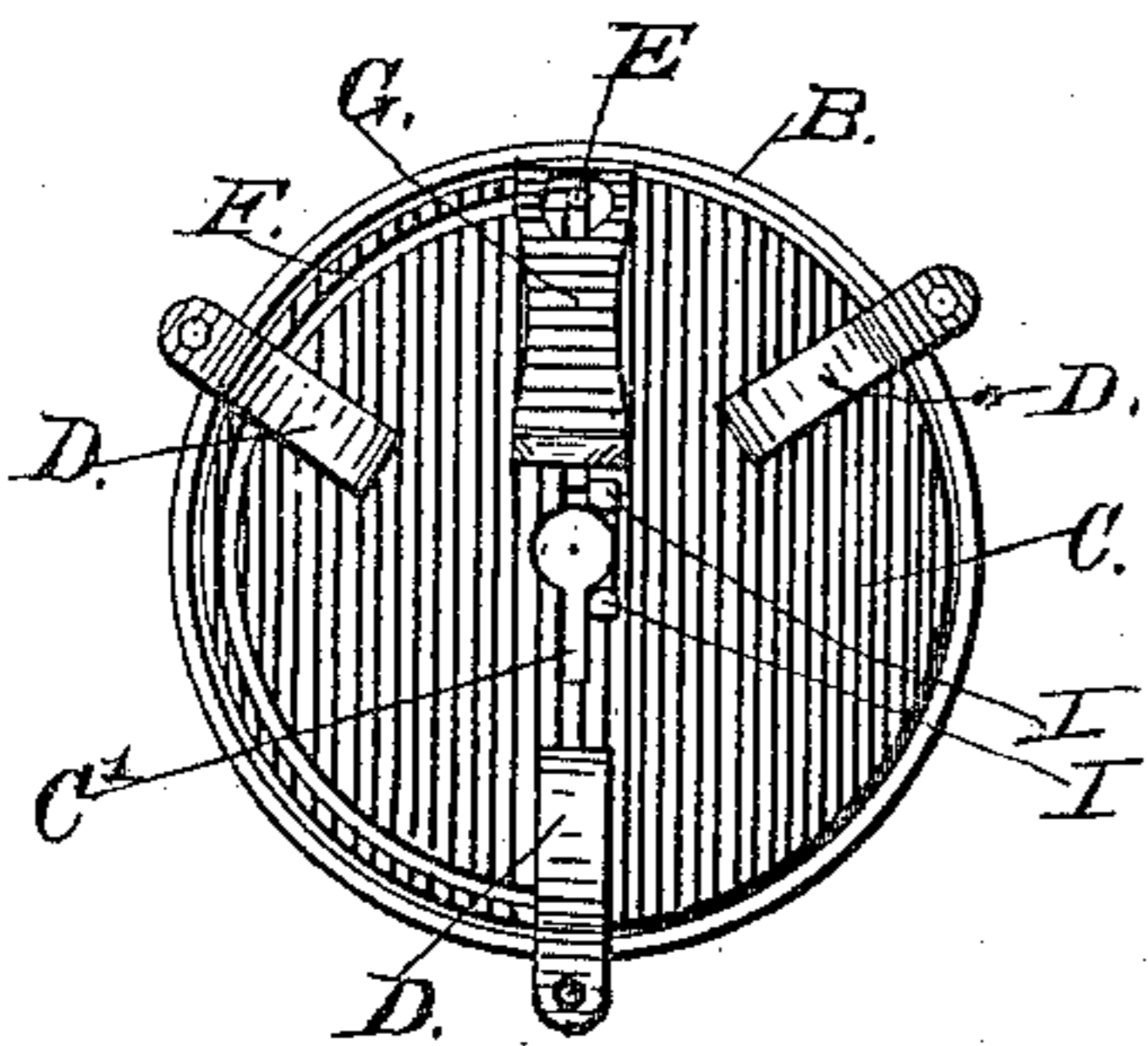
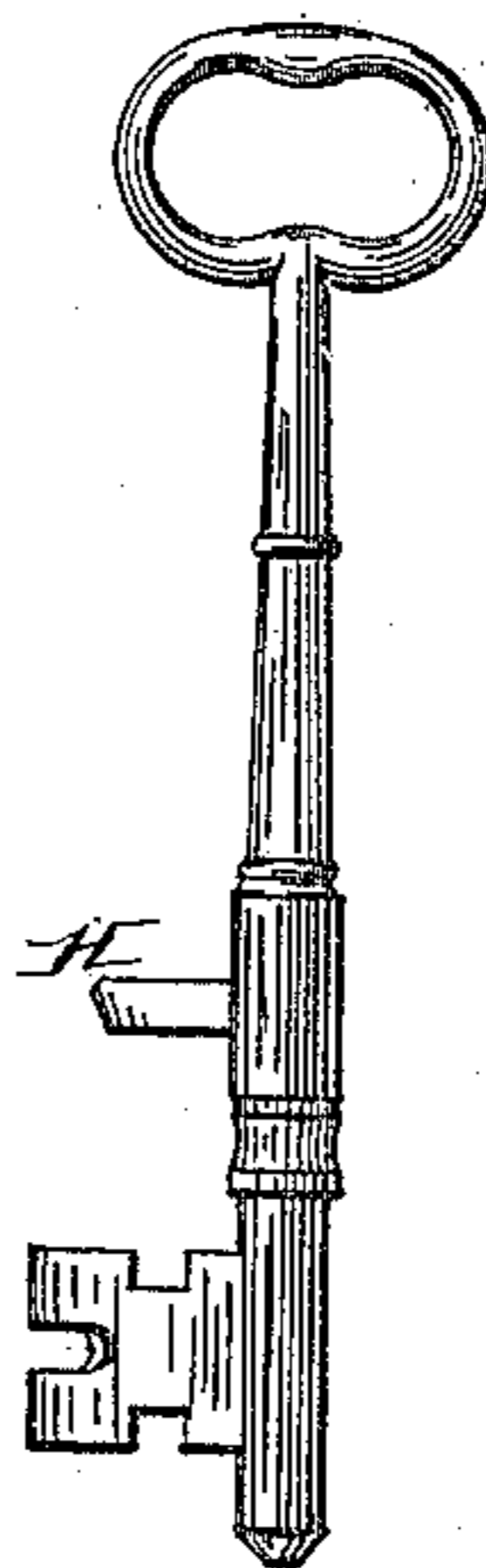


Fig. 4.



Witnesses

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By his Attorney

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UNITED STATES PATENT OFFICE.

CHARLES F. GREEN, OF HAMPTON, VIRGINIA.

INDICATOR-LOCK.

SPECIFICATION forming part of Letters Patent No. 343,901, dated June 15, 1886.

Application filed May 5, 1886. Serial No. 201,173 (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. GREEN, a citizen of the United States, residing at Hampton, in the county of Elizabeth City and State of Virginia, have invented certain new and useful Improvements in Indicator-Locks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to improvements in indicator-locks; and it consists in certain novel features which will be hereinafter fully described, and then pointed out in the claims.

In the drawings, Figure 1 is a side elevation showing the device in the position it will assume when the door is locked. Fig. 2 is an elevation showing the door unlocked and the side of the casing removed. Fig. 3 is a view of the rear side of my device. Fig. 4 is a detail view of the key; and Fig. 5 is a detail edge view of the spring locking-plate.

A represents a portion of a door having my device applied thereto. On the outside of the door, surrounding the key-hole, I secure a casing, B, within which a dial-plate, C, revolves. The casing B is provided with an opening, B', through which the symbols on the dial C are viewed. The casing is also provided with a key-hole, B², as shown, and the dial-plate is provided with a central opening having a slot, C', extending radially therefrom on each side, as shown, to allow of the insertion and withdrawal of the key, as will be hereinafter set forth. The casing B has a circular rib on its rear side, secured on the edge of the circular head of the key-hole, and the dial C is provided with curved ribs C² on its face, which rest on the rib on the back of the casing and turn thereon in the operation of the device. The dial-plate C is held to the casing by springs D, secured to the latter and bearing on the back of the dial. I also provide a pin, E, on the back of the casing, which works in a semicircular slot, F, in the dial-plate, and thereby limits its motion

to one-half of a complete revolution. I also secure to the edge of the casing a spring locking-plate, G, which bears on the back of the dial. This locking-plate G is provided on its under side, at its free end, with a lug, G', which enters the slots C' in the dial C in the operation of the device. The end of the locking-plate G is turned up and forms a lip, G², which is engaged by a lug, H, on the key, as will be presently explained. At the inner ends of the slots C', I provide two pins, I I, which are both placed on the same side of the slots C'.

In operation the key is inserted in the lock and the door is locked and unlocked in the usual manner. As the key is turned the lug H passes under the lip G² of the locking-plate G and raises said plate, disengaging the lug G' from the slot C', and as the key continues to turn, the lug H bears against one of the pins I and turns the dial-plate, as will be readily understood. When the dial-plate has made one-half of a complete revolution its further revolution will be prevented by the pin E contacting with the end of the semicircular slot F, and also by the lug G' on the locking-plate engaging the slot C'. The revolution of the dial-plate brings one of the symbols on its face within the opening B' in the casing, and thereby indicates whether the door is locked or unlocked.

The symbols are arranged diametrically opposite each other, so that one or the other will always be in view. In the drawings I have shown the initial letters of the words "In" and "Out;" but the whole words, or any other symbols, the meaning of which will be obvious to the ordinary observer, may be used.

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

1. The combination, in an indicator-lock, of a casing, a dial-plate revolving in the casing and having a slot extending radially from its center, and a locking-plate secured to the casing and carrying a lug, which engages the radial slot in the dial, substantially as set forth.

2. The herein shown and described indi-

cator-lock, comprising a casing secured to the door, a dial-plate revolving in the casing, springs adapted to hold said plate in the casing, a locking-plate carrying a lug which engages a radial slot in the dial, a pin on the back of the casing working in a semicircular slot near the edge of the dial, pins on the back of the dial near its center, and a key engag-

ing the said pins in the operation of the device, substantially as specified. 10

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES F. GREEN.

Witnesses:

H. J. ENNIS,

R. W. BISHOP.