

No. 633,078.

Patented Sept. 12, 1899.

W. E. & G. N. CRANE.

DOOR SECURER.

(Application filed May 19, 1897.)

(No Model.)

Fig. 1.

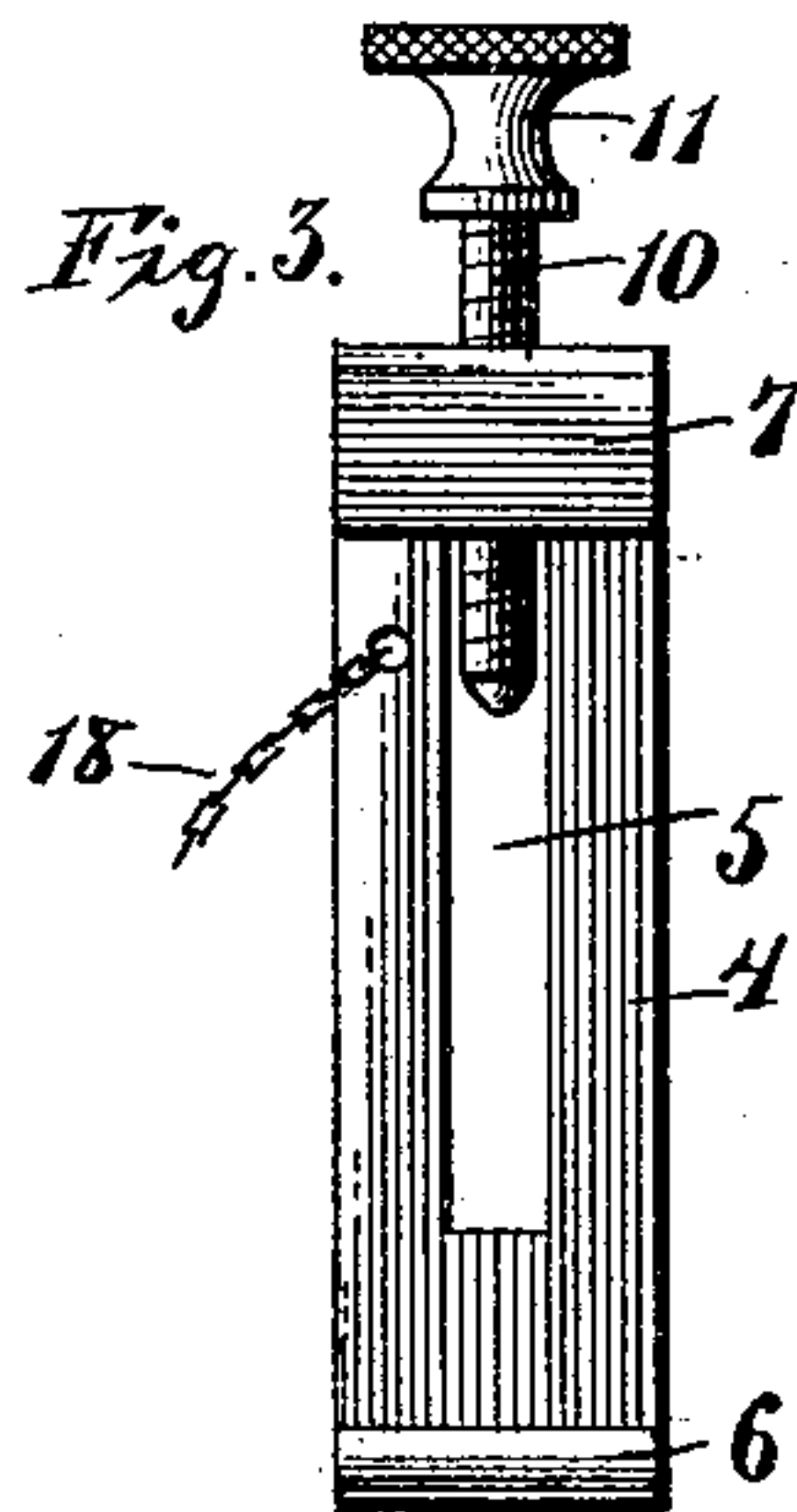
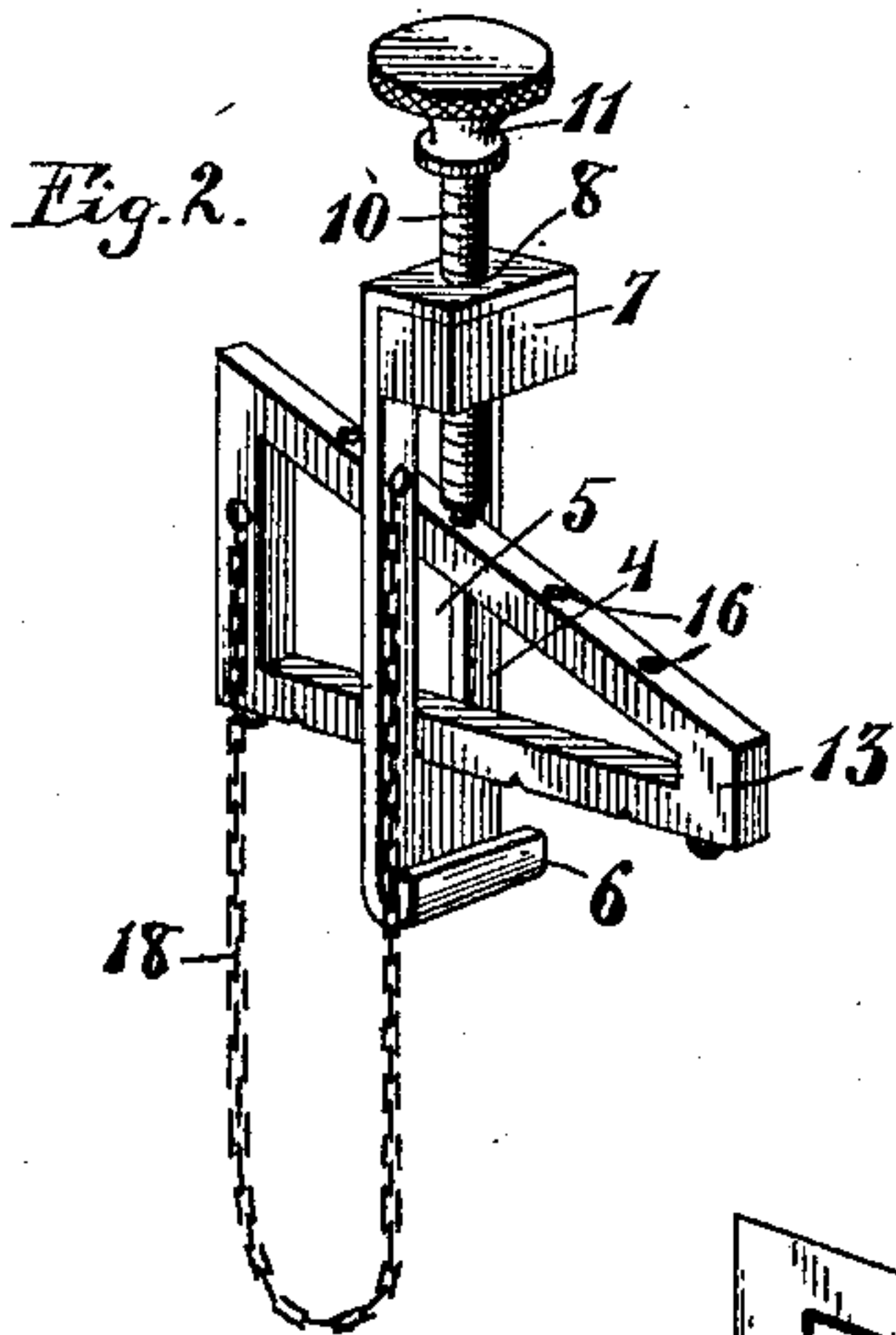
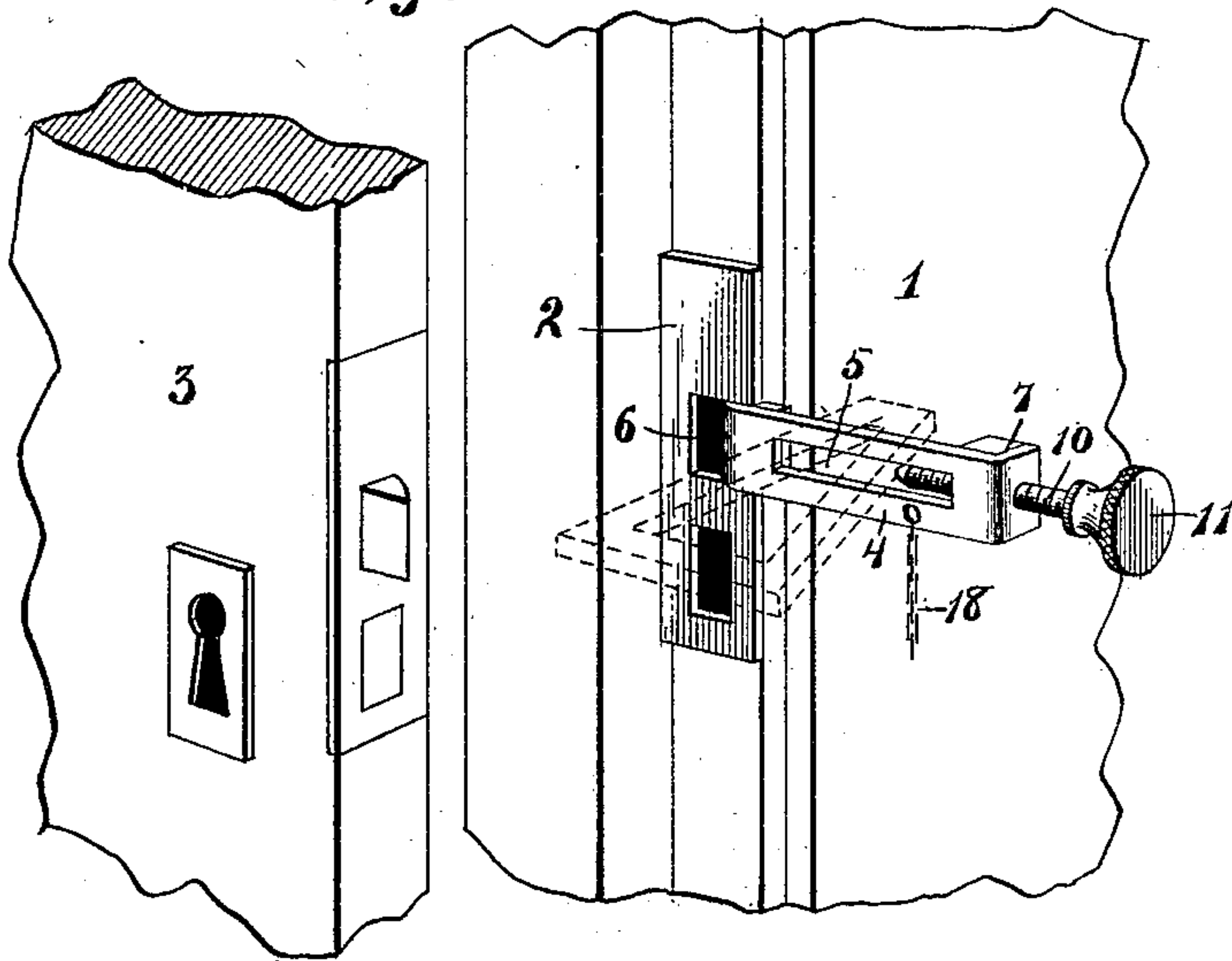
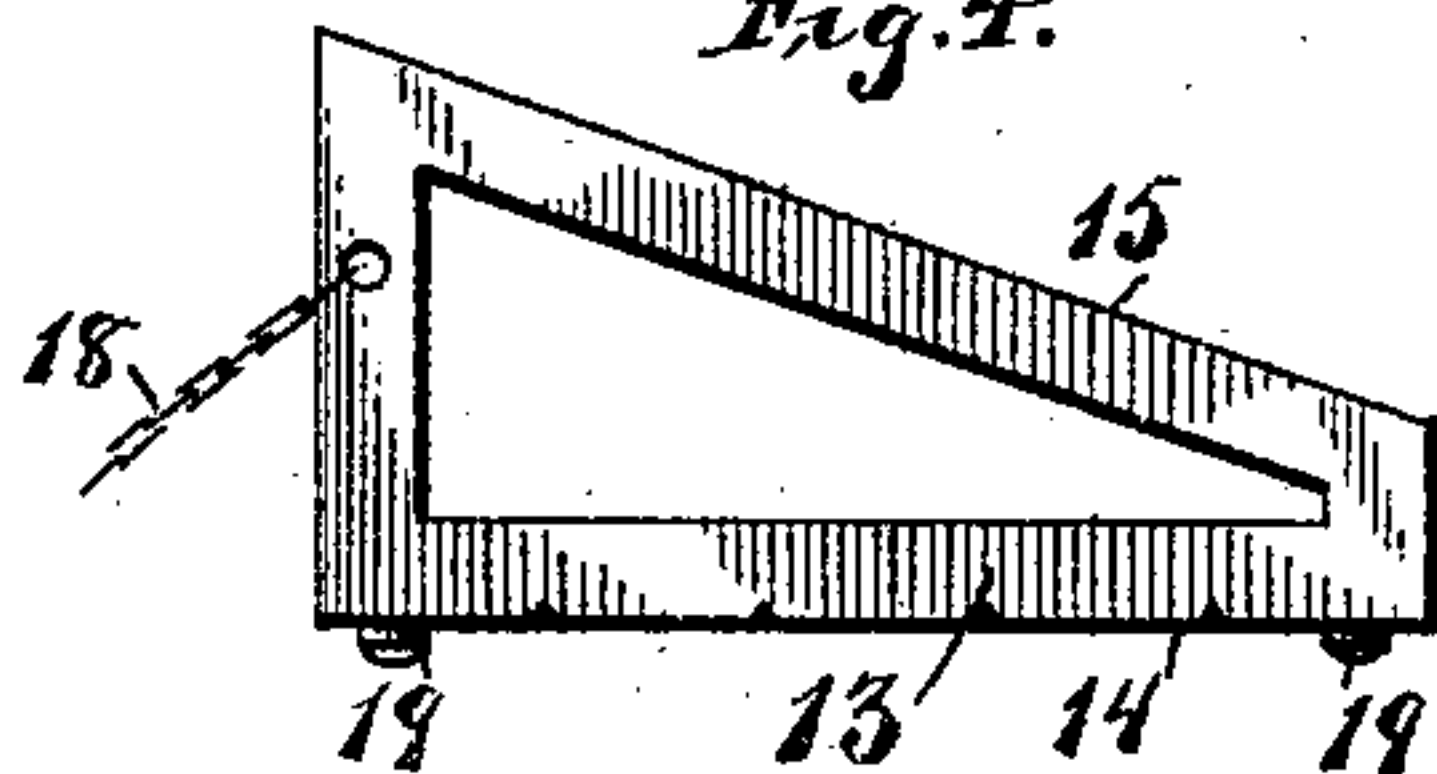


Fig. 4.



Witnesses

L. D. Heinrichs
Victor J. Evans

Inventors

William E. & George N. Crane
By John Wedderburn.
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM E. CRANE AND GEORGE N. CRANE, OF CAMDEN, MAINE.

DOOR-SECURER.

SPECIFICATION forming part of Letters Patent No. 633,078, dated September 12, 1899.

Application filed May 19, 1897. Serial No. 637,150. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM E. CRANE and GEORGE N. CRANE, of Camden, in the county of Knox and State of Maine, have invented certain new and useful Improvements in Door-Securers; and we do hereby 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.

The object of our invention is the production of a simple, durable, and efficient door-securer designed to be carried in the pocket and to be readily attached to a door from the inside to prevent forcible entry even where it is possible for the intruder to open the lock from without.

To the accomplishment of this end our invention consists in a door-securer hereinafter described and claimed.

Referring to the drawings, Figure 1 is a view illustrative of the application of our device. Fig. 2 is a perspective view showing the various parts of the lock in their operative relations. Fig. 3 is a detail view of the securing-plate, and Fig. 4 is a similar view of the clamping-block.

Referring to the numerals on the drawings, 1 indicates a door-casing provided with the usual apertured striker 2 and the door 3, the lock-bolt of which is designed to cooperate with the striker or keeper in the usual manner.

4 indicates a plate provided with a longitudinal slot 5, a terminal hook 6 for insertion into the aperture of the keeper, and at the end opposite said hook with a block 7, provided with a screw-threaded bore 8 in alignment with the slot and designed to receive the threaded clamping-screw 10, operated through the medium of a milled head 11, as illustrated.

13 indicates a tapering clamping-block designed to extend through the slot of the securing-plate and provided with a clamping-face 14, preferably notched, as illustrated, to interlock with the bottom wall of the slot in plate 4 and with an inclined face 15, provided with a series of sockets 16 for the reception of the extremity of the clamping-

screw. The clamping-block is preferably secured to the securing-plate by any suitable means—as, for instance, a flexible piece or chain 18, secured in any suitable manner, but preferably as illustrated.

In order to prevent marring of the polished surface of the door and casing, we preferably provide one or more rubber disks or buffers 19, secured upon the clamping-plates 14 of the clamping-block, preferably by being seated within recesses therein.

In use the operation of our device is as follows: The hooked extremity of the securing-plate is passed through the aperture of the striker, bringing the body of the plate flush against the face of the jamb. The door is then closed, and the clamping-block is slipped through the slot 5 until the clamping-face of the block is forced snugly against the face of the door and jamb, which are ordinarily substantially flush. The clamping-screw 10 is then screwed up against the clamping-block, its extremity engaging one or more of the sockets therein, and the door is thus effectually locked to the striker through mechanism and entirely removed from the possibility of malicious tampering therewith.

What we claim is—

A safety-lock or door-securer, involving the combination of a plate having a hook for engagement with a keeper at one end, a slot for the introduction of a key or clamping-plate and a threaded block at the other end for a set-screw, and a triangular key or clamping-plate adapted to pass into or through the slot in the hooked plate provided with sockets upon its inclined face and with notches on its horizontal face, and a set or clamping screw fitted in the block for engaging the sockets in the inclined face of the key, substantially as described.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

WILLIAM E. CRANE.
GEORGE N. CRANE.

Witnesses:

M. T. CRAWFORD,
G. H. TALBOT.