

No. 703,281.

Patented June 24, 1902.

L. LABEAU.
LOCK.

(Application filed Jan. 2, 1902.)

(No Model.)

2 Sheets—Sheet 1.

FIG. 1.

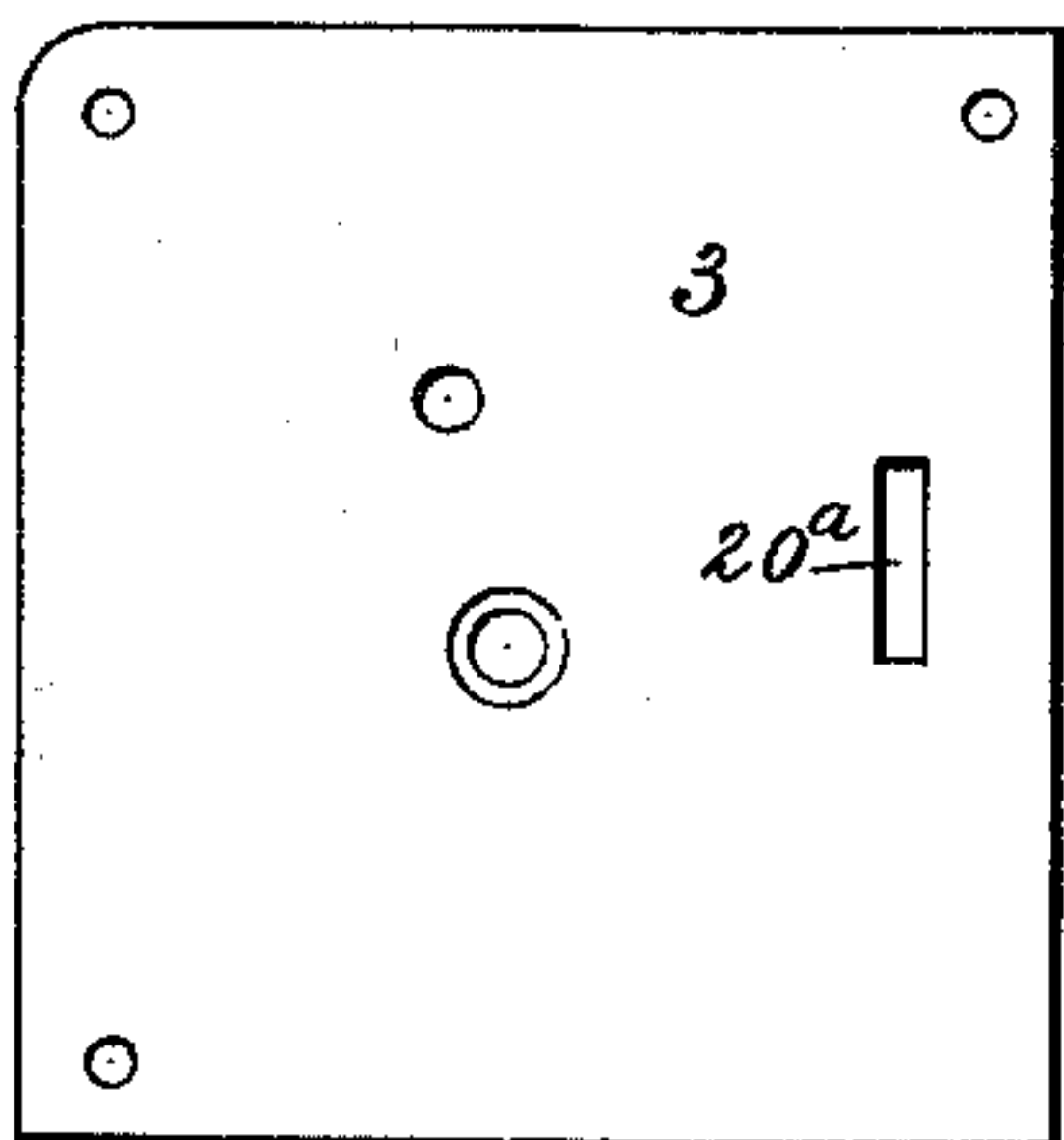
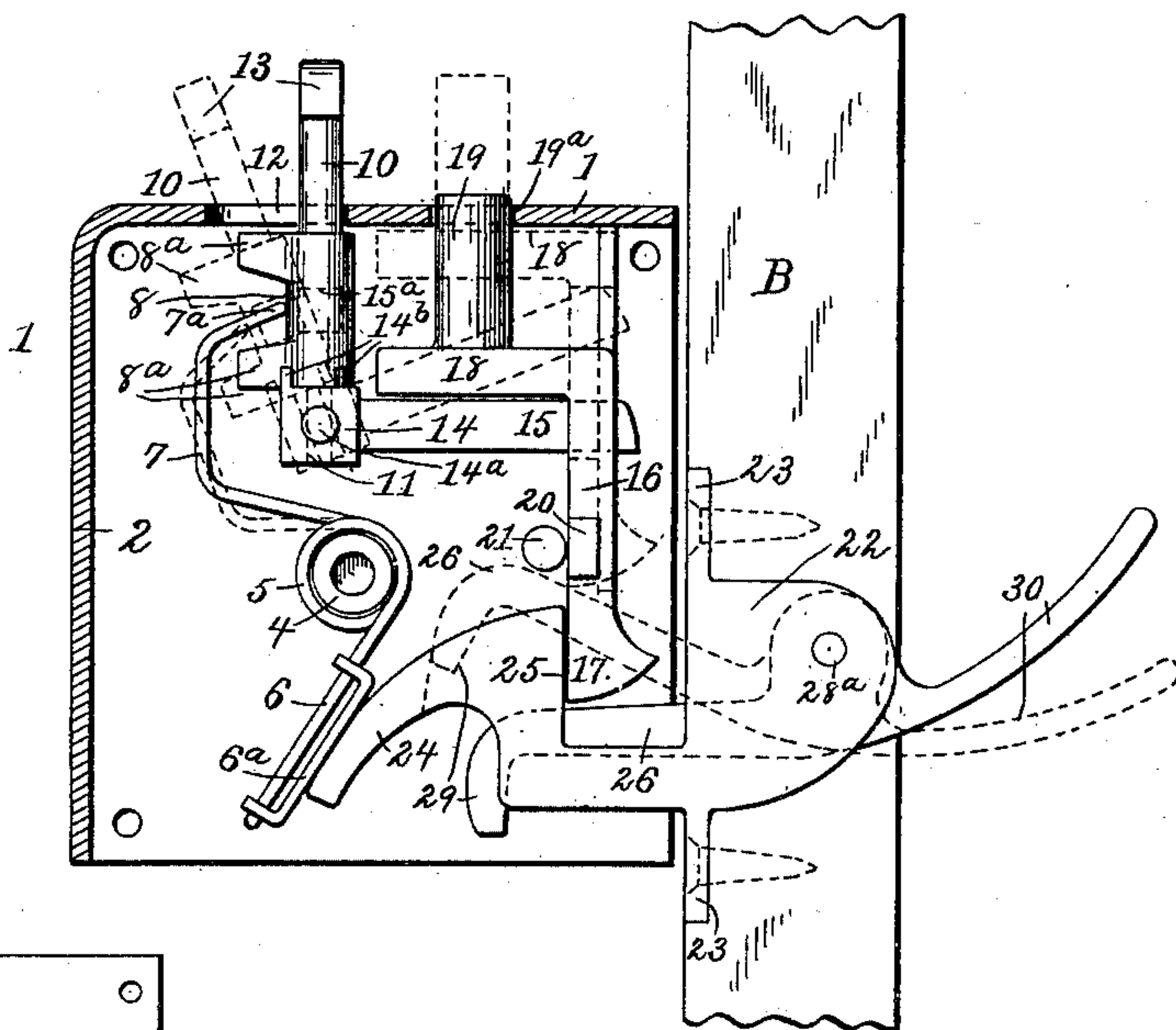
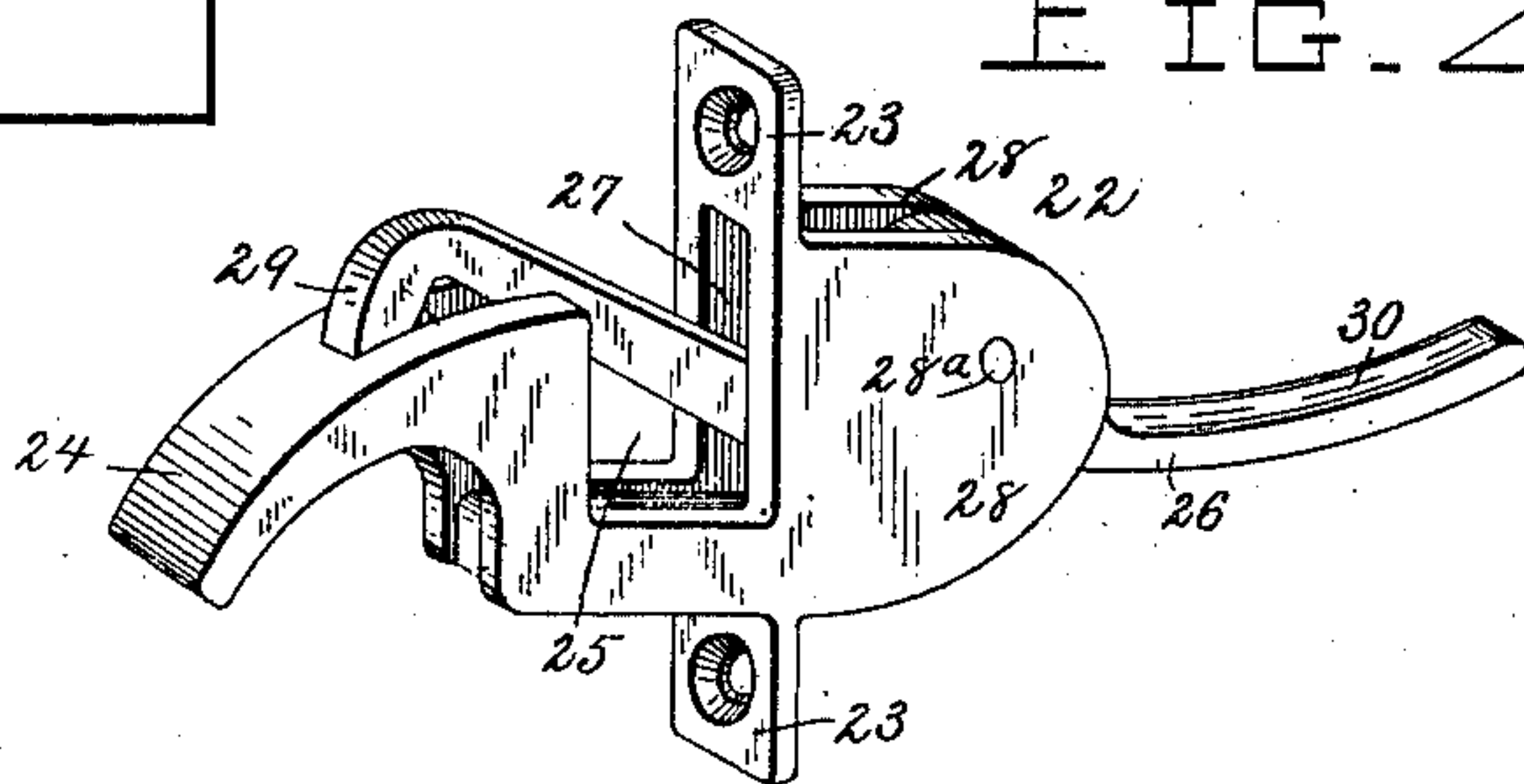


FIG. 7.

FIG. 2.



Witnesses:
F. L. Ourand

Frank G. Radelfinger.

Inventor:
Louis Labeau

by Louis Bagger & Co.,
Attorneys.

No. 703,281.

Patented June 24, 1902.

L. LABEAU.
LOCK.

(Application filed Jan. 2, 1902.)

(No Model.)

2 Sheets—Sheet 2.

FIG. 3.

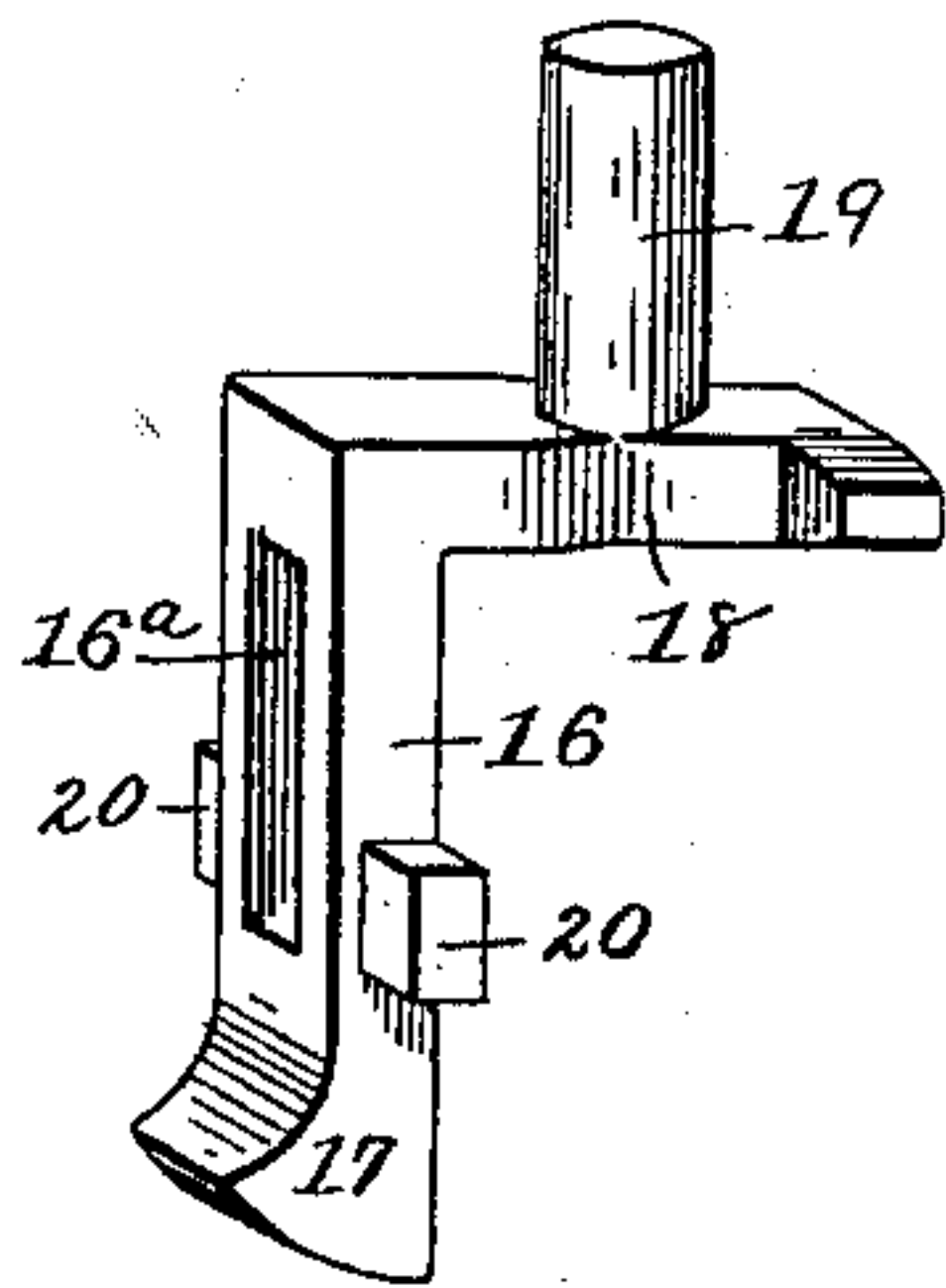


FIG. 4.

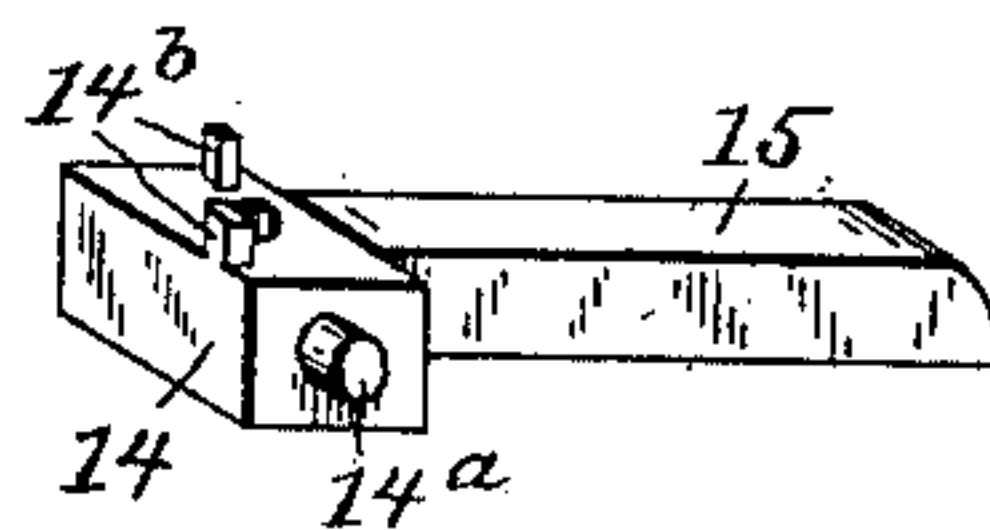


FIG. 5.

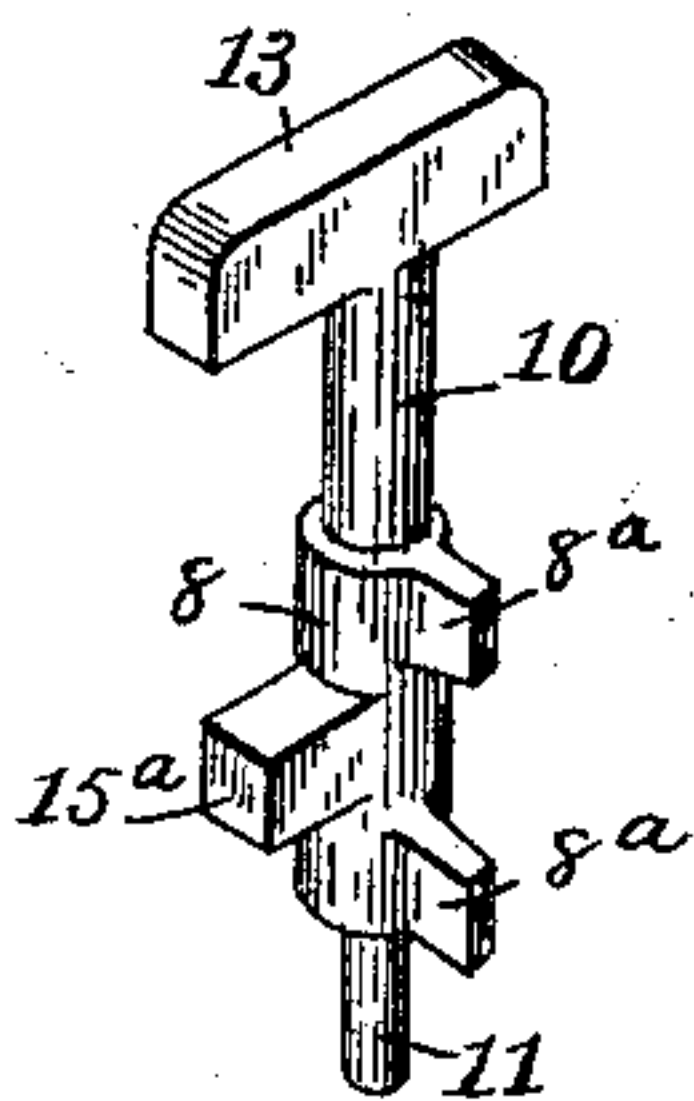
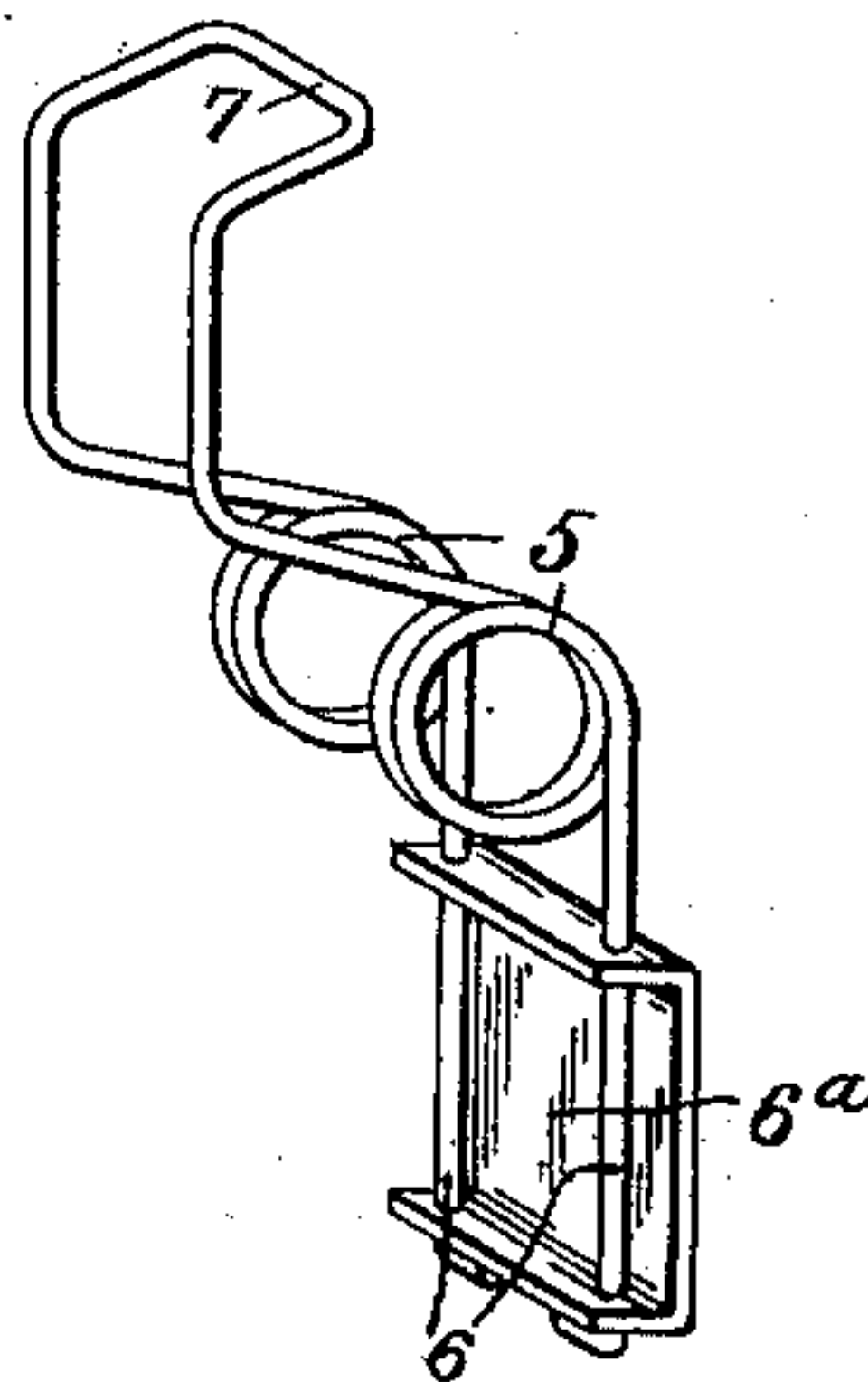


FIG. 6.



Witnesses:

F. L. Ourand

Frank G. Radelfinger

Inventor:

Louis Labeau,

by Louis Ragger & Co.,
Attorneys

UNITED STATES PATENT OFFICE.

LOUIS LABEAU, OF BRIGGSVILLE, MASSACHUSETTS.

LOCK.

SPECIFICATION forming part of Letters Patent No. 703,281, dated June 24, 1902.

Application filed January 2, 1902. Serial No. 88,140. (No model.)

To all whom it may concern:

Be it known that I, LOUIS LABEAU, a citizen of the United States, residing at Briggs-ville, in the county of Berkshire and State of
5 Massachusetts, have invented new and useful Improvements in Door-Locks, of which the following is a specification.

My invention relates to door-locks; and the object of the same is to construct a lock for
10 use on screen-doors and which will be simple in construction and efficient in operation. This object is accomplished by the simple and novel construction described in this specification and claimed, and illustrated in the ac-
15 companying drawings, forming a part thereof, in which—

Figure 1 is a section through the lock casing, taken perpendicular to the door and showing a fragment of the door and the lock and
20 catch in position thereon, also the raised positions shown in dotted lines. Fig. 2 is a perspective of the catch member and lever. Fig. 3 is a perspective of the dog. Fig. 4 is a perspective of the axle and trigger-arm. Fig. 5
25 is a perspective of the key. Fig. 6 is a perspective of the spring and bearing-plate. Fig. 7 is a reduced detail of the cover.

Like numerals of reference designate like parts in the different views of the drawings.
30 The numeral 1 designates the casing of my lock, which comprises a box 2 and a cover 3. The box 2 is open at one side and at the bottom. An internally-threaded boss 4 projects centrally from the side of the box and pro-
35 vides means for securing the cover 3 by a screw.

Surrounding the boss 4 is a coiled spring 5, formed of a double wire and having its ex-
40 tremes prolonged to form oppositely-extending spring-arms 6 and 7. The lower arms 6 carry a bearing-plate 6^a, the purpose of which will appear, while the upper arm 7 is curved around to form a hook 7^a, which engages a
45 key 8 intermediate two lugs 8^a thereon. The key 8 is reduced at both ends, forming spindles 10 and 11. The upper spindle 10 extends through a slot 12 in the casing 1 and bears a thumb-piece 13 for operating the lock. The lower spindle 11 fits an aperture in an axle
50 14. The body of the key is provided with a third lug 8^b, designed to serve to lock my device.

The axle 14 extends transversely the casing and is provided with trunnions 14^a, which fit apertures therein. Lugs 14^b limit the move-
55 ment of the key 8. A trigger-arm 15 is formed integral with the axle 14 and engages a slot 16^a in a dog 16. The dog 16 has a head 17 on the lower end and a tail 18, extending at right angles to the body thereof and in position to
60 be engaged by a locking-lug 15^a, formed on the key 8. A pin 19 and lugs 20 are formed on the dog and engage apertures 19^a and 20^a, respectively, in the casing and serve as guides for the dog, as does also a stud 21 on the cas-
65 ing 1.

To act in combination with the portion of my lock already described is a catch member 22, designed to be secured to a door by per-
70 forated ears 23. The catch 22 has a rounded head 24 and a square notch 25 adjacent thereto for engaging the head 17 of the dog 16. For disengaging the head 17 from the notch a lever 26 is provided and mounted in a slot
75 27 in the catch member and fulcrumed on a pin 28^a, connecting perforated ears 28. The lever 26 has an inwardly-extending downwardly-curved arm 29, which extends transversely the notch 25, and an outwardly-ex-
80 tending upwardly-curved arm 30, which serves as a handle in operating the lock.

In operation the box 2 of the casing is se-
cured to the casing of a door. The catch mem-
ber 22 is secured by the ears 23 to a door B,
85 adjacent to the edge and perpendicular to the plane thereof. The catch is placed so that the head 24 will abut the bearing-plate 6^a, and the notch 25 will be engaged by the head 17 of the dog 16 when the door is closed.

When it is desired to open the door from
90 the inside, the thumb-piece 13 is grasped and carried backward, thereby actuating the trigger-bar 15 to raise the dog 16 up into the dotted position shown in Fig. 1 and out of en-
95 gagement with the notch 25 in the catch member 22. As soon as the catch member is released the action of the spring 5 on the head 24, which action is intensified by the rear-
ward movement of the key 8, will force the door B outward, thereby opening it.
100

In opening the door from the outside it is only necessary to push down on the outer arm 30, thereby raising the arm 29 up into the dotted position, thereby disengaging the dog

16 from the notch 25, when the spring 5 will act, as before, and open the door.

If it is desired to lock the door, the key 8 is turned, by means of the thumb-piece 13, until the lug 15^a engages the upper side of the tail 18 of the dog and securely locks the dog against being raised.

When the use of the latch is to be dispensed with, the dog 16 is first raised up into dotted position and the key 8 turned, by means of the thumb-piece 13, until the lug 15^a engages the under side of the tail 18 and holds the dog up. I may construct the spring 5 to be normally inoperative and not to bear on the head 24 except when the key 8 is drawn back, as in opening the door from the inside. This would enable the door to remain closed when the dog was raised and locked in the inoperative position.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. In a lock of the class described, the combination of a catch member, a vertically-slid-

ing dog engaging said catch member, an axle bearing a trigger-arm engaging said dog, a rotatable key connected to said axle and bearing a lug designed to engage said dog to lock it in either raised or lowered positions, said key being constructed to be displaced to operate said trigger-arm to raise said dog to release said catch member, substantially as described.

2. In a lock of the class described, the combination with a catch member adapted to be secured to a door, of a sliding dog located to engage said catch member, a rotatable axle bearing a trigger-arm engaging said dog, a key connected to said axle and disposed at an angle thereto, said key being mounted to be displaced to operate said trigger to disengage said dog, and a pivoted spring bearing two arms, one of which engages said key and the other bears on the head of said catch member, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LOUIS LABEAU.

Witnesses:

EDWARD C. KIELY,
DELIA KIELY.