

No. 776,190.

PATENTED NOV. 29, 1904.

M. LEVINE.
CAN CLOSURE.

APPLICATION FILED FEB. 10, 1904.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.

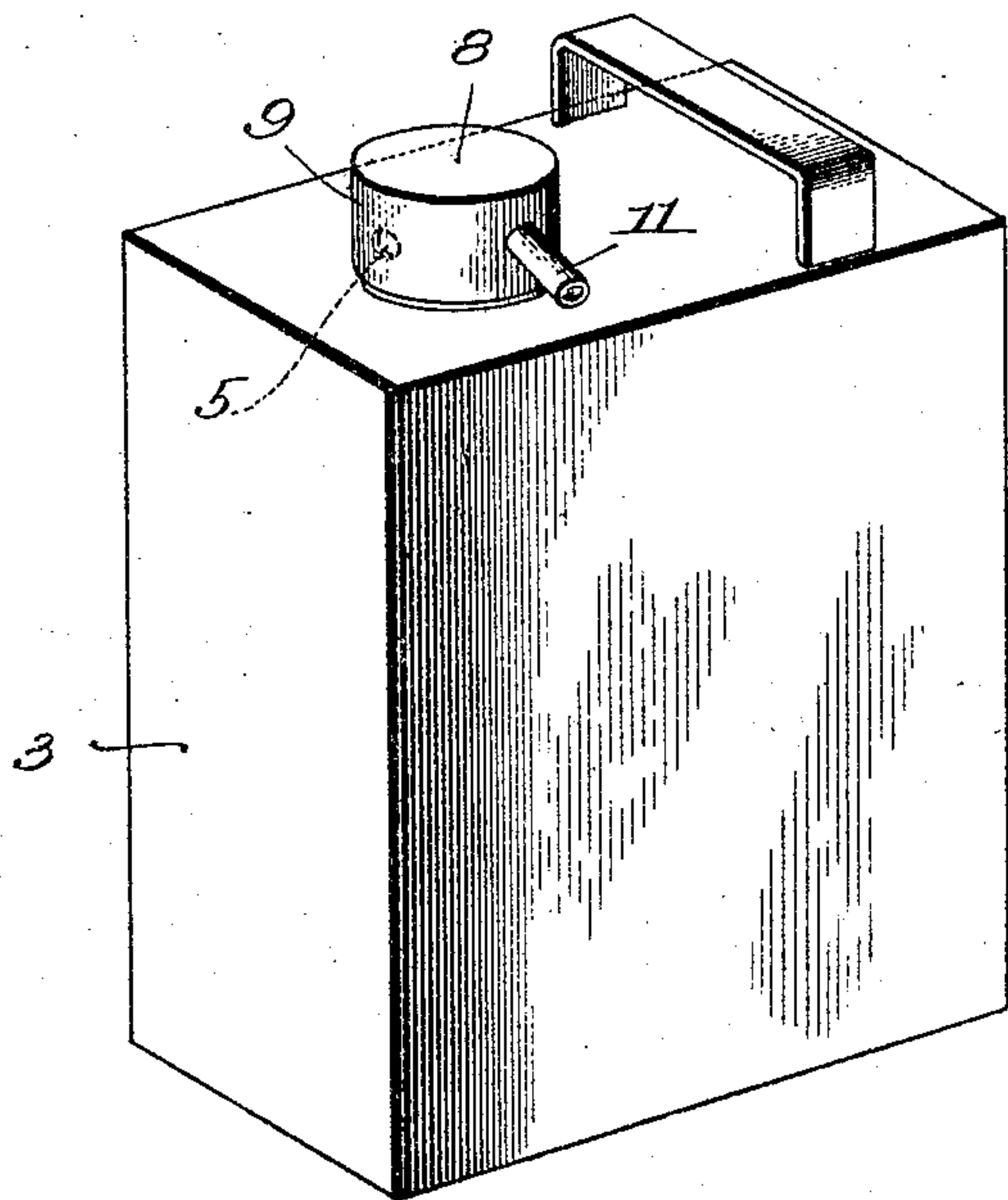


Fig. 2.

Fig. 3.

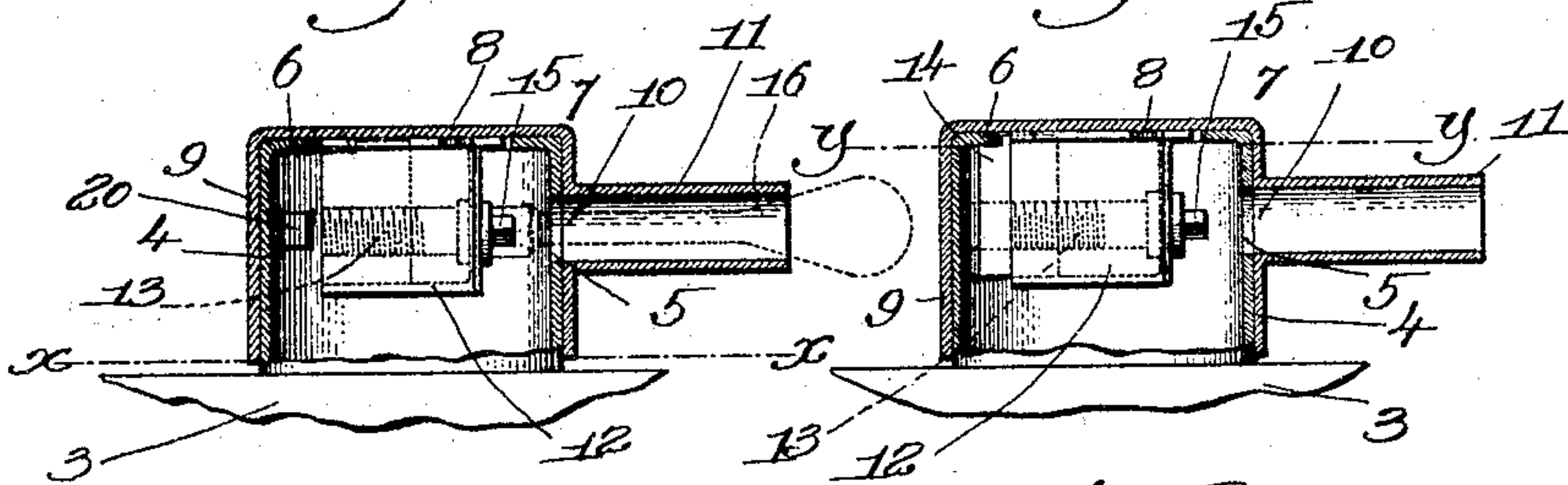
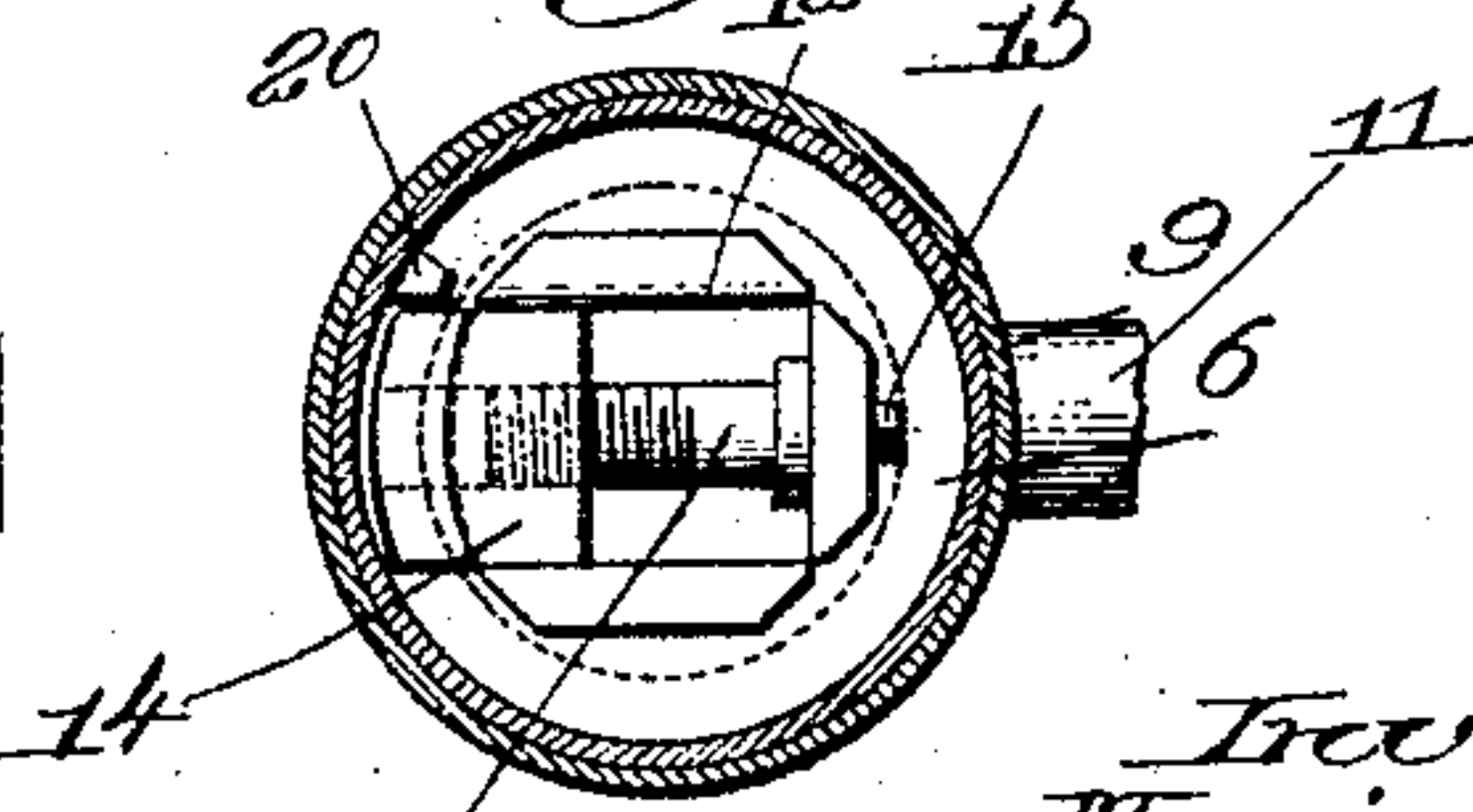
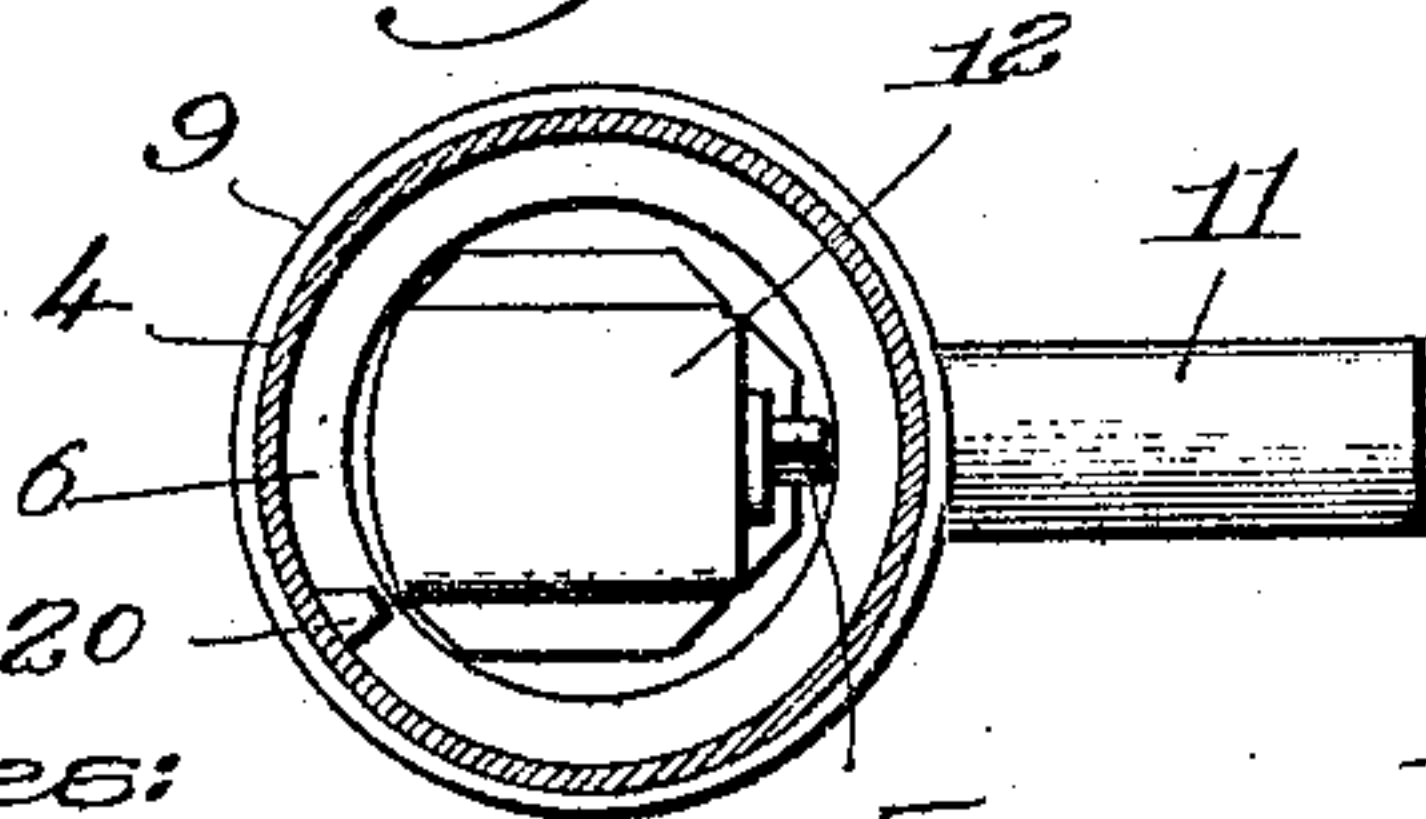


Fig. 4.

Fig. 5.



Witnesses:

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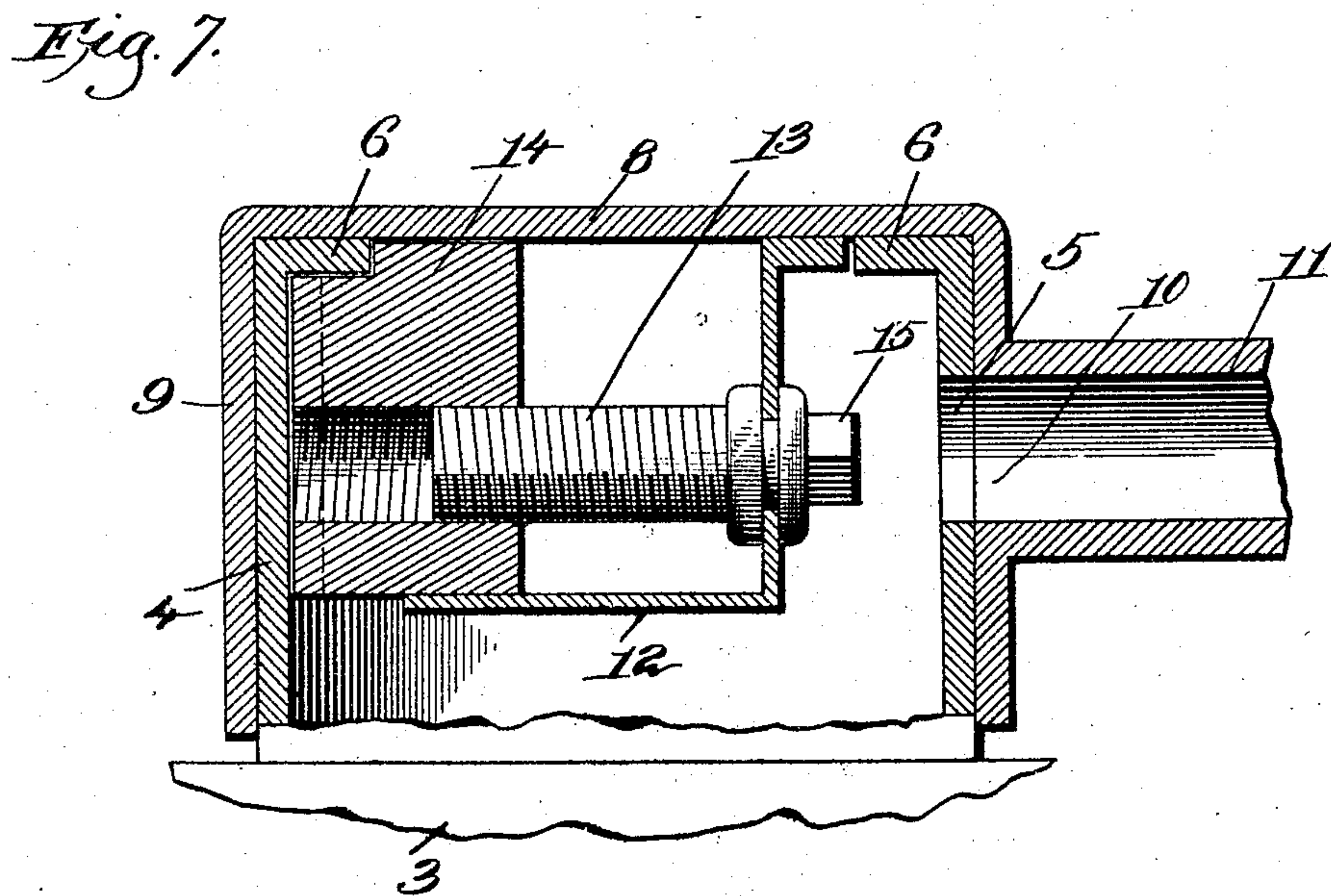
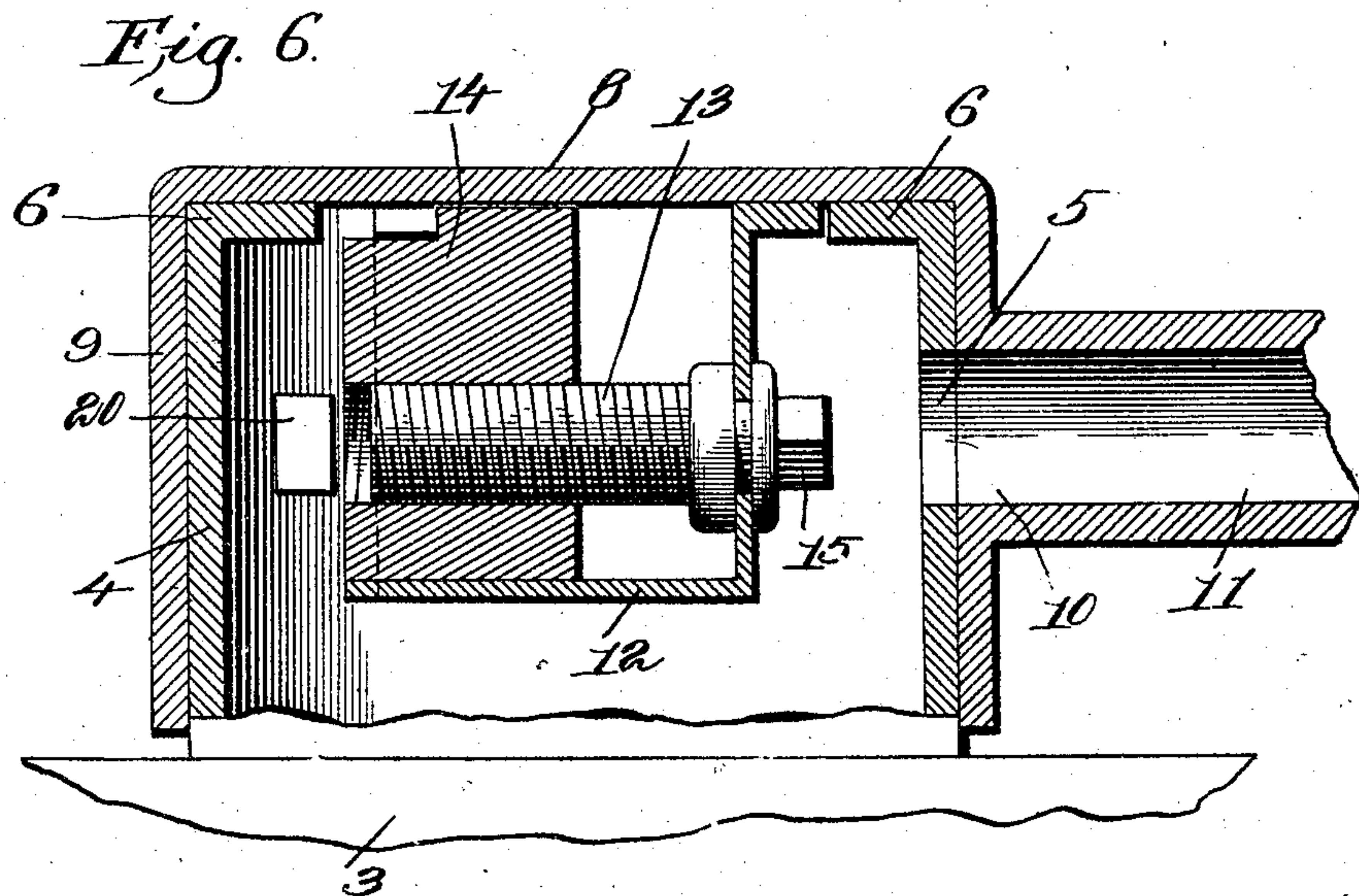
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

MORRIS LEVINE, OF WAKEFIELD, MASSACHUSETTS.

CAN-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 776,190, dated November 29, 1904.

Application filed February 10, 1904. Serial No. 192,877. (No model.)

To all whom it may concern:

Be it known that I, MORRIS LEVINE, a citizen of the United States, residing at Wakefield, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Can-Closures, of which the following description, in connection with the accompanying drawings, is a specification, like figures on the drawings representing like parts.

10 This invention relates to a novel closure for cans, jars, and similar receptacles, and has for its object to provide a closure which will permit the contents of the can to be emptied, but which will prevent the can being refilled except by persons who have the proper implements for removing the cap.

The device comprises a cap adapted to set over the neck of the can or other receptacle having an outlet in its side, a movable projection carried by said cap and adapted to engage and interlock with a projection extending inwardly from the neck of the can, and operating means for said projection. The cap has in its side an outlet-opening which 25 can be brought into register with the outlet-opening in the neck by giving the cap a movement relative to the neck, and the operating means for the movable projection are so situated that it can only be actuated by a key or 30 other implement which is inserted through the outlet-opening in the cap and that in the neck when the two are in alinement. With this construction the contents of the can may be emptied by simply turning the cap so as 35 to bring its outlet-opening into register with that in the neck; but the cap cannot be bodily removed for refilling the can except by the person who has the proper implement or key.

In the drawings, Figure 1 is a perspective 40 view of a can having my improved closure applied thereto. Figs. 2 and 3 are vertical sections through the closure, Fig. 2 showing the cap unlocked and Fig. 3 showing it locked. Fig. 4 is a section on the line *x x*, Fig. 2. 45 Fig. 5 is a section on the line *y y*, Fig. 3. Fig. 6 is a section through the top of the can and its closure, on an enlarged scale, showing the can-top unlocked; and Fig. 7 is a similar view showing the can-top locked.

50 The can, jar, or other receptacle 3 to which

my closure is applied will have the neck 4 provided with an outlet-opening 5 in its side and an inwardly-extending projection 6, with which the movable projection of the cap hereinafter described is adapted to cooperate. 55 This projection 6 may be made in various ways; but I prefer to make it in the form of an annular inwardly-extending flange at the top of the neck.

The cap is designated generally by 7 and 60 comprises the top portion 8 and the downwardly-extending annular flange 9. The cap is adapted to set over the neck 4 and can be moved relative thereto. In this form of my invention this relative movement is obtained 65 by making the cap capable of turning upon the neck 4. The flange 9 of the cap has an outlet-aperture 10 and preferably a discharge-spout 11, registering therewith, and said outlet-aperture is so situated that it can be 70 brought into register with the aperture 5 in the neck by turning the cap about the neck.

Rigidly secured to the under side of the top 8 of the cap is a housing 12, carrying an operating-screw 13, which has screw-threaded 75 engagement with a movable block or projection 14, inclosed in the housing 12 and guided thereby. The turning of the screw 13 gives the block 12 a lateral movement and carries the latter from its inoperative position (shown 80 in Figs. 2 and 6) to its operative position (shown in Figs. 3 and 7) and into engagement with the under side of the flange or projection 6. The head 15 of the screw is squared and adapted to receive a suitable wrench or 85 other implement 16, such as shown in dotted lines, Fig. 2. The screw-head 15 is positioned opposite the opening 5 in the neck, so that when the cap is turned to bring the outlet-opening 10 into alinement with that in the 90 neck, as shown in Figs. 2 and 6, the key 16 can be inserted through the nozzle 11 and applied to the screw 13 to actuate the same.

The casing 12 is of such a size that it will pass through the aperture in the top of the 95 neck 4 when the cap is applied to said neck, and after the cap has been so applied it is turned to bring the apertures 5 and 10 into alinement and the key 16 inserted through said apertures and applied to the screw 13 and the 100

latter turned to advance the block 14 and cause it to engage the flange 6, as seen in Fig. 3, this operation of course being performed after the can has been filled. By turning the cap upon the neck the outlet-apertures 5 and 10 are closed, as seen in Fig. 1.

Whenever it is desired to discharge or partially discharge the contents, the cap can be turned to bring the outlets 5 and 10 into alinement, as shown in Fig. 2. I prefer to employ a suitable stop 20, extending inwardly from the neck 4, to limit the turning movement of the cap upon its engagement with the projection 14. This stop will be so located that when it engages the projection the outlet-openings 5 and 10 are in alinement with each other. When the can is completely emptied and it is desired to refill it, the key 16 is applied to the screw 13, as shown in Fig. 2, and the block 14 withdrawn from engagement with the flange 6, when the cap can be bodily removed.

If desired, some suitable packing material may be interposed between the flange 9 of the cap and the neck 4 to make a perfectly tight joint, or the cap 4 may be screw-threaded to the neck. The important feature of the invention is that the cap carries a movable projection which is adapted to interlock with a fixed inwardly-extending projection on the neck and which is moved by operating means so situated that it can only be actuated through the discharge-opening of the can. With this closure the contents of the receptacle may readily be discharged, but said receptacle cannot be filled again except by the authorized persons.

Various changes in the construction and arrangement of the parts may be made without departing from the invention expressed in the appended claims.

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

1. In a device of the class described, a can or similar receptacle provided with a neck having an inwardly-extending projection, a can-cap seated over said neck and having a movable

projection to interlock with that on the neck, and means to move said projection into and out of operative position.

2. A can or similar receptacle provided with a neck having an inwardly-extending projection and an outlet in its side, a can-cap seated over said neck and having an outlet-opening, a movable projection carried by the cap and adapted to interlock with that on the neck, and means to give said projection its movement, said means being situated to be operated by a key inserted through the two outlet-openings when they are in alinement.

3. A can or similar receptacle having a neck provided with an inturned flange, a removable cap seated over said neck, a movable projection carried by said cap, and means to move said projection into engagement with the flange and thereby lock the cap to the neck.

4. A receptacle provided with a neck having an inturned flange, and an outlet-opening, a removable cap seated over said neck and having a corresponding outlet-opening, a movable projection carried by the cap, and means to operate said projection to carry it into engagement with the flange, said means being situated within the neck when the cap is applied thereto and opposite the outlet-opening through the cap.

5. A can or similar receptacle provided with a neck having an inturned flange, and an outlet-opening, a removable cap seated over said neck and having a corresponding outlet-opening, a movable block carried by said cap, an operating-screw for the block also carried by the cap, said block and screw being situated within the neck when the cap is applied thereto, and said screw being opposite the outlet-opening in the neck.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MORRIS LEVINE.

Witnesses:

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GEO. W. GREGORY.