

No. 674,911.

Patented May 28, 1901.

G. B. EDGAR.  
SEAL LOCK.

(Application filed Nov. 3, 1900.)

(No Model.)

Fig. 1.

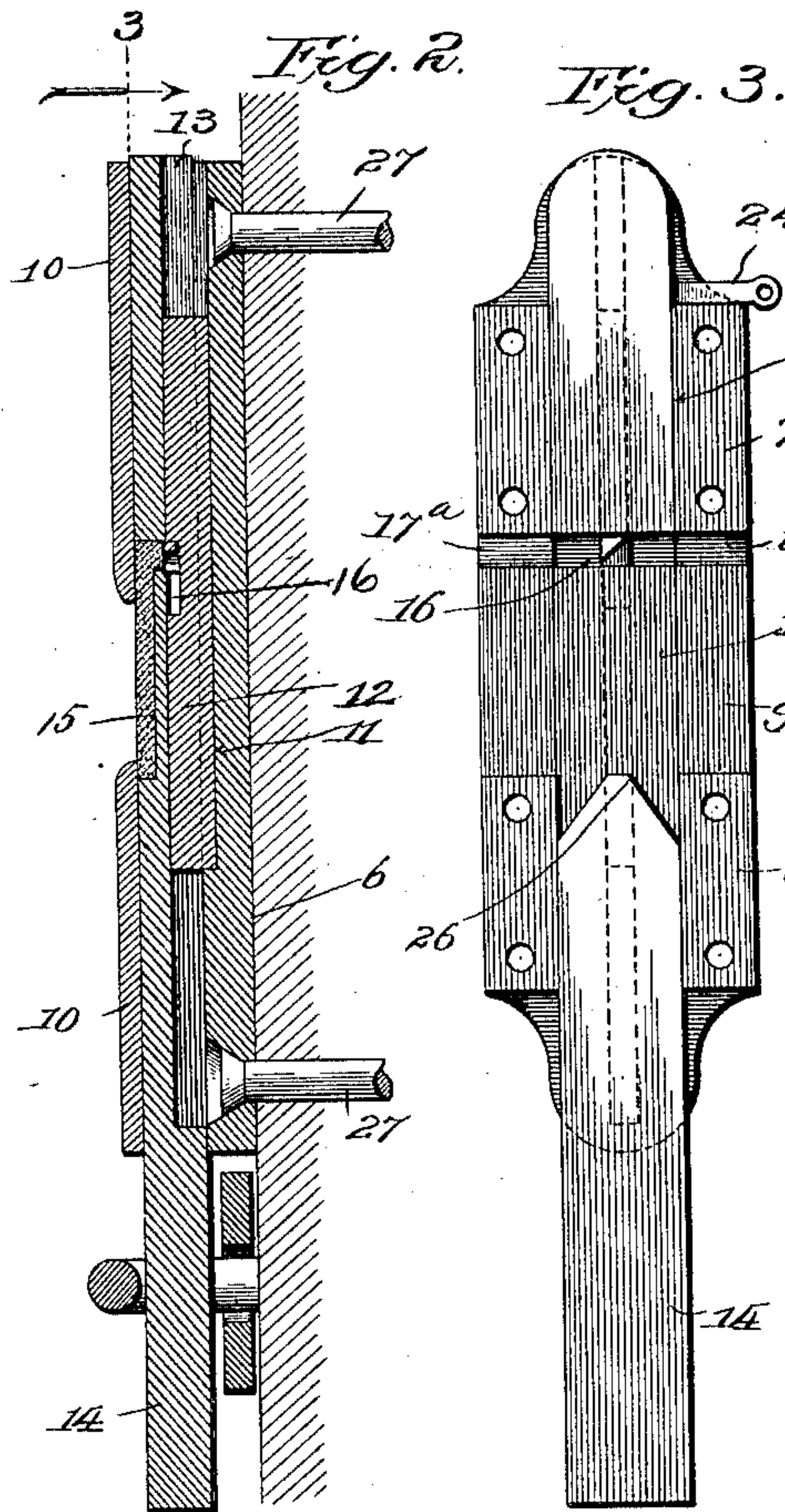
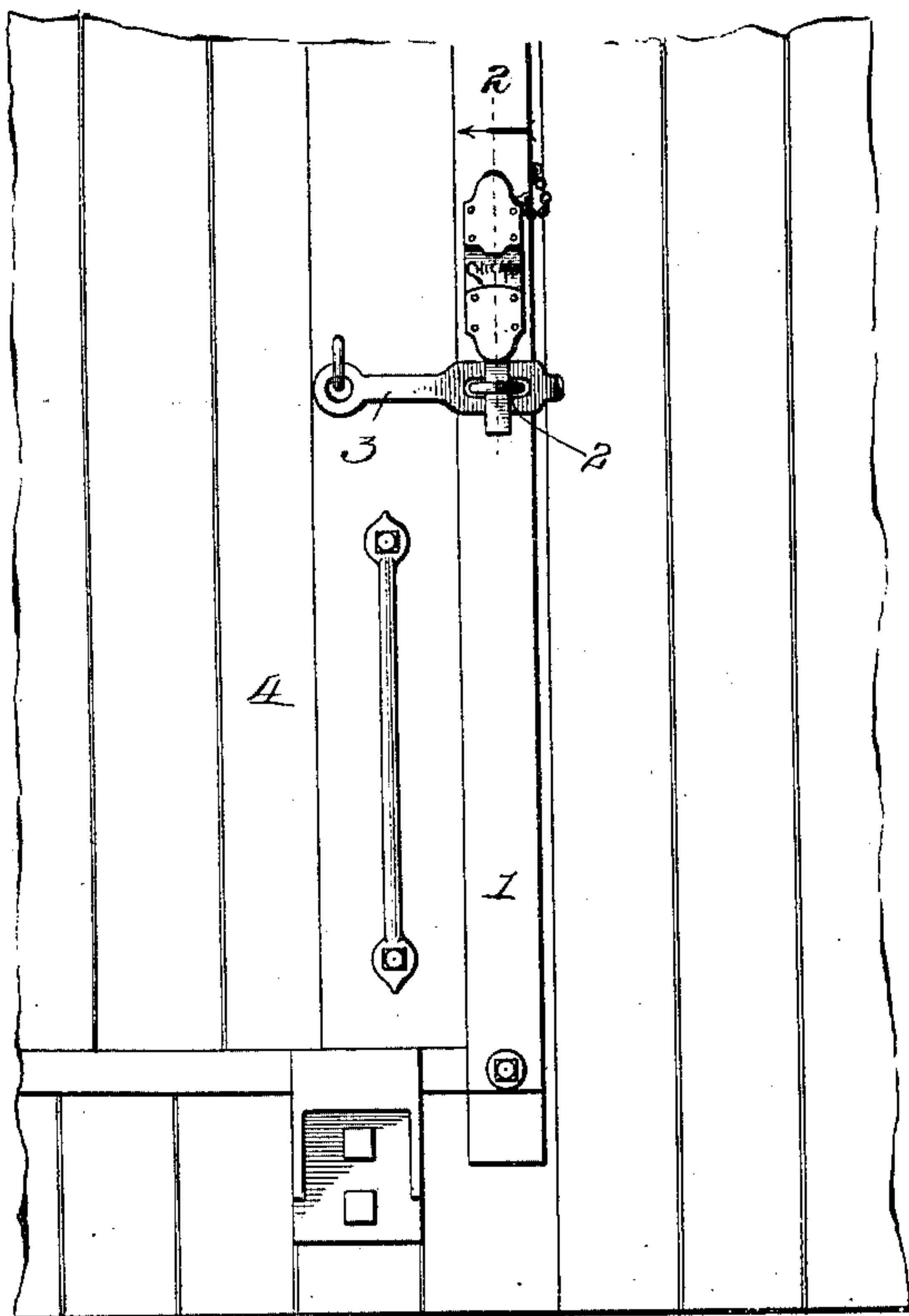


Fig. 4.

Fig. 5.

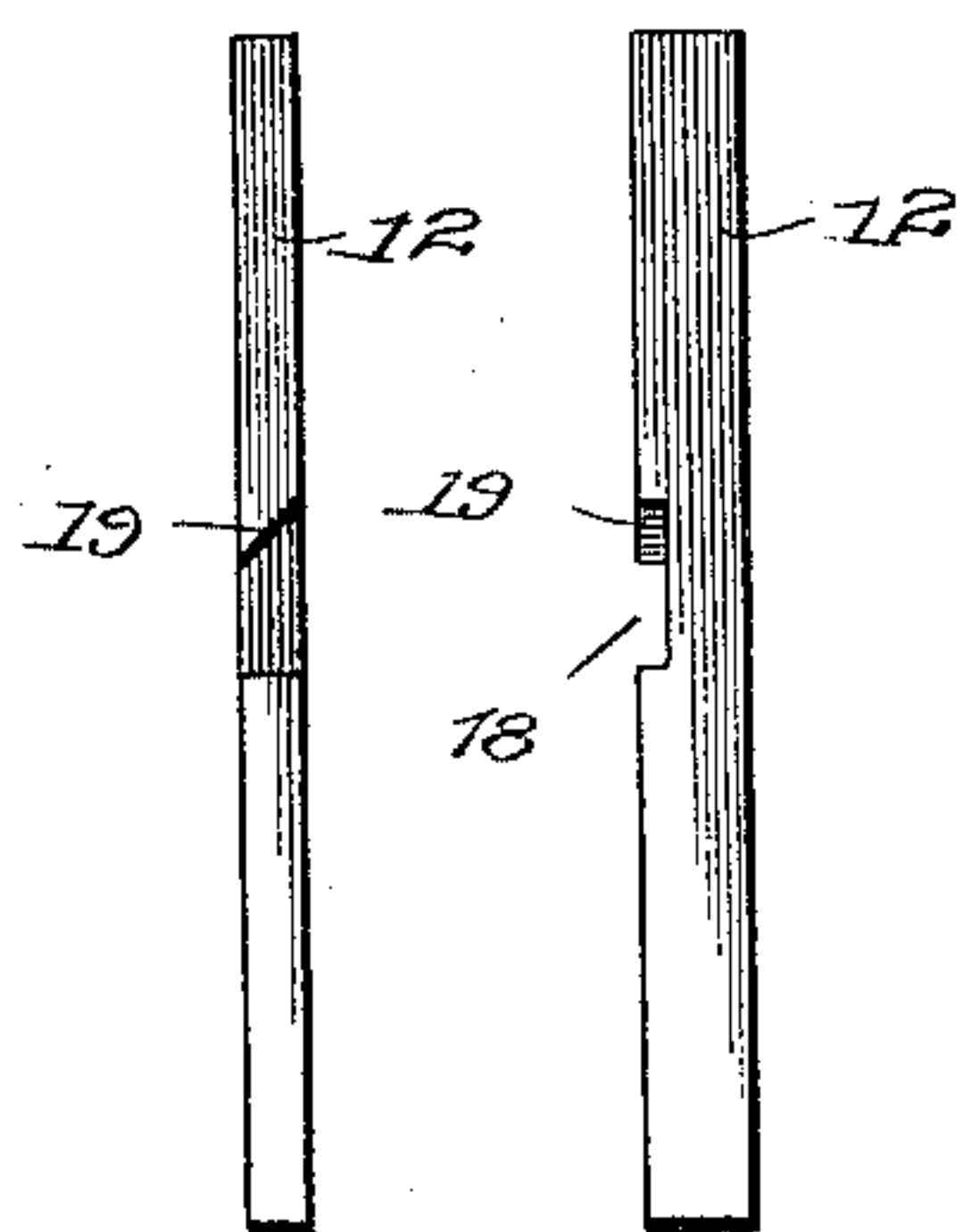


Fig. 6.

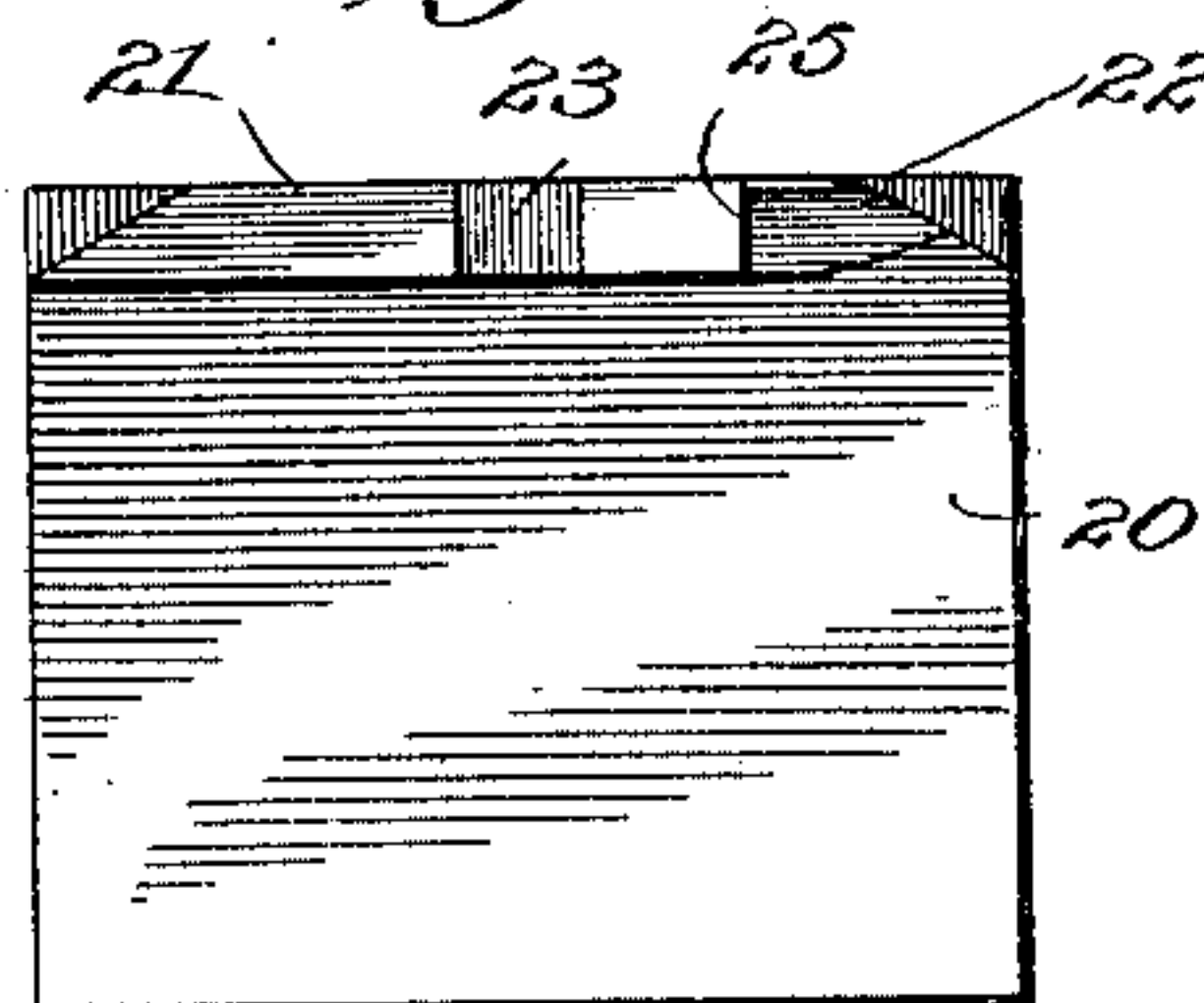


Fig. 7.



Fig. 8.



Witnesses:

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Inventor:

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Att'y.



# UNITED STATES PATENT OFFICE.

GEORGE BENJAMIN EDGAR, OF LAWRENCE, KANSAS.

## SEAL-LOCK.

SPECIFICATION forming part of Letters Patent No. 674,911, dated May 28, 1901.

Application filed November 3, 1900. Serial No. 35,414. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE BENJAMIN EDGAR, a citizen of the United States, residing at Lawrence, in the county of Douglas and State of Kansas, have invented new and useful Improvements in Seal-Locks, of which the following is a specification.

This invention relates to new and useful improvements in seal-locks especially adapted for cars, chests, boxes, shipping-packages, &c.; and its primary object is to provide a device of simple construction having a sliding bolt, which is adapted to be locked by the seal placed in position within the lock.

A further object is to provide novel means for preventing the removal of the seal after the same has been once placed in position.

With these and other objects in view the invention consists in providing a lock-casing having a passage extending longitudinally therethrough and within which is slidably mounted the locking-bolt. The face of the casing is cut away, so as to expose a portion of the bolt, and the bottom of the recess formed within the face is grooved transversely. This groove is adapted when the bolt is in its lowest position to register with a corresponding groove formed within the front face of the bolt. A dog of peculiar construction is slidably mounted within the bolt and extends into the transverse groove therein, and this dog is provided with a shoulder which is adapted to engage a recess formed within a rib which is arranged at one edge of a seal. This seal is adapted to be inserted into the recessed face of the lock-casing, the rib thereof resting within the transverse grooves.

The invention also consists in the further novel construction and combination of parts, hereinafter more fully described and claimed, and illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is an elevation of the device, showing the same in position upon a car. Fig. 2 is a vertical transverse section through the device when in locked position on the line 2-2 of Fig. 1. Fig. 3 is a face view of the lock with the seal and the face-plates removed. Fig. 4 is a front elevation of the dog. Fig. 5

is a side elevation thereof. Figs. 6, 7, and 8 are a rear elevation and edge view and a top view, respectively, of the seal.

Referring to the figures by numerals of reference, 1 is a door-casing having a staple 2 extending therefrom, which is adapted to project through an eye formed within the hasp 3, which is secured to the door 4 of a car. Secured to the casing at a point above the staple 2 is a casing 5 of the seal-lock forming the subject-matter of this application. This casing comprises a casting 6, having flanges 7 at the sides thereof, which form a longitudinally-extending passage 8 therebetween. Each of these flanges is recessed at a point between its ends, as at 9, and face-plates 10 are secured to the flanges and over the passage 8 at points above and below the recesses 9, as shown in Figs. 1 and 2 of the drawings.

A longitudinally-extending groove 11 is formed within the casting at a point between its flanges 7, and slidably mounted therein is a dog 12, which projects into a longitudinally-extending groove 13, formed within the rear face of a bolt 14. This bolt is slidably mounted within the passage 8, before referred to, and is adapted to project from the lower end of the casting and into engagement with the staple 2, before referred to.

The front face of the sliding bolt 14 is provided with a recess 15, which is so located that when said bolt is in lowered position said recess will be in alinement with the recesses 9 in the flanges 7. This bolt is also provided with a transversely-extending groove 16, which communicates with the longitudinally-extending groove 13 in the rear face thereof and which registers, when the bolt is in lowered position, with grooves 17 and 17<sup>a</sup>, formed within the bottoms of the recesses 9. The groove 17, as well as the groove 16, is preferably rectangular in cross-section, while the remaining groove, 17<sup>a</sup>, is beveled. This is for the purpose hereinafter more fully described.

The dog 12, before referred to, will obviously extend transversely of the groove 16. A recess 18 is provided within the front face of the dog at a point adjacent to this groove 16, and the upper wall of the recess is in-



clined, as at 19, this inclined portion normally projecting within the groove 16, as shown in Fig. 3.

The seal employed in connection with this device is illustrated in Figs. 6, 7, and 8. It comprises a plate 20 of suitable material having a flange 21 arranged along the upper edge thereof. One edge of this flange is inclined, as at 22, and a recess 23 is formed in the flange at a point between the ends thereof. An arm 24 extends laterally from the sliding bolt 14 at a point adjacent to the upper end thereof and is adapted to limit its downward movement. This arm is provided with an eye or other suitable means whereby the same may be readily secured to the door-casing and prevent accidental displacement of the sliding bolt after the same has been withdrawn from the casing of the lock. When it is desired to lock a car-door and seal the same, the sliding bolt 14 is moved upward until the same arrives at a point above the staple 2. It is then released and will fall by gravity into the staple, the transverse groove 16 therein registering with the groove 17 when the bolt reaches its lowest point. The dog 12 will then lie in the position shown in dotted and full lines in Fig. 3. The seal is then inserted into the lock-casing from one side and with the inclined end 22 of the flange 21 first. As soon as this inclined end contacts with the inclined wall 19 of the recess 18 in the dog 12 said dog will be forced upward, causing said inclined wall to ride upon the upper edge of the flange 21 until the same arrives at a position above the recess 23, when it will fall into said recess and prevent the seal from being withdrawn. Further inward movement of the seal will be prevented by a shoulder 25, which is formed upon the flange 21 and which is adapted to contact with the second flange 7 at the end of the groove 17<sup>a</sup>. That portion of the flange 21 which is adapted to lie within the triangular groove 17<sup>a</sup> is of course triangular in cross-section. As soon as the seal has been thus locked in position it will be impossible to raise the sliding bolt 14, as the lower wall 26 of the recess 15 therein will contact with the lower edge of the seal. It will then only be possible to unlock the door by breaking the seal. The bolt will then be free to slide upward, the dog 12 therein remaining stationary until the end of the slot

(shown in dotted lines in Fig. 3) contacts therewith. The dog 12 is preferably formed of heavy metal, such as lead, and is of course loosely mounted within the groove 13, so that the same can move freely therein. The casing of the lock may be secured to a car in any suitable manner, as by means of bolts 27.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes and alterations as fairly fall within the scope of my invention.

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

1. The combination with a casing, of a bolt slidably mounted therein, said bolt and casing having recesses therein adapted to lie in alinement with each other and said bolt being recessed on its inner face, a transversely-extending groove within the casing and bolt, a dog slidably mounted in the bolt, and having a recess therein, an inclined wall to said recess adapted to extend into the groove in the bolt, and a seal adapted to be inserted into the recesses in the casing and bolt and be locked therein by the dog.

2. The combination with a casing, of a bolt slidably mounted therein, said bolt and casing having recesses and grooves normally in alinement with each other, a dog slidably mounted within a recess on the inner face of the bolt and having a recess therein, formed with an inclined wall adapted to extend into the transverse groove of the bolt, and a seal comprising a plate adapted to be inserted into the recesses, a flange thereon adapted to lie within the transverse grooves and an inclined end to the flange for contacting with and raising the inclined wall of the dog, said flange being provided with a recess for the reception of the dog thereby preventing the withdrawal of the seal.

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

GEORGE BENJAMIN EDGAR.

Witnesses:

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