

No. 677,576.

Patented July 2, 1901.

G. F. KNAPP.
BOX FASTENER.

(Application filed Mar. 23, 1901.)

(No Model.)

Fig. 1.

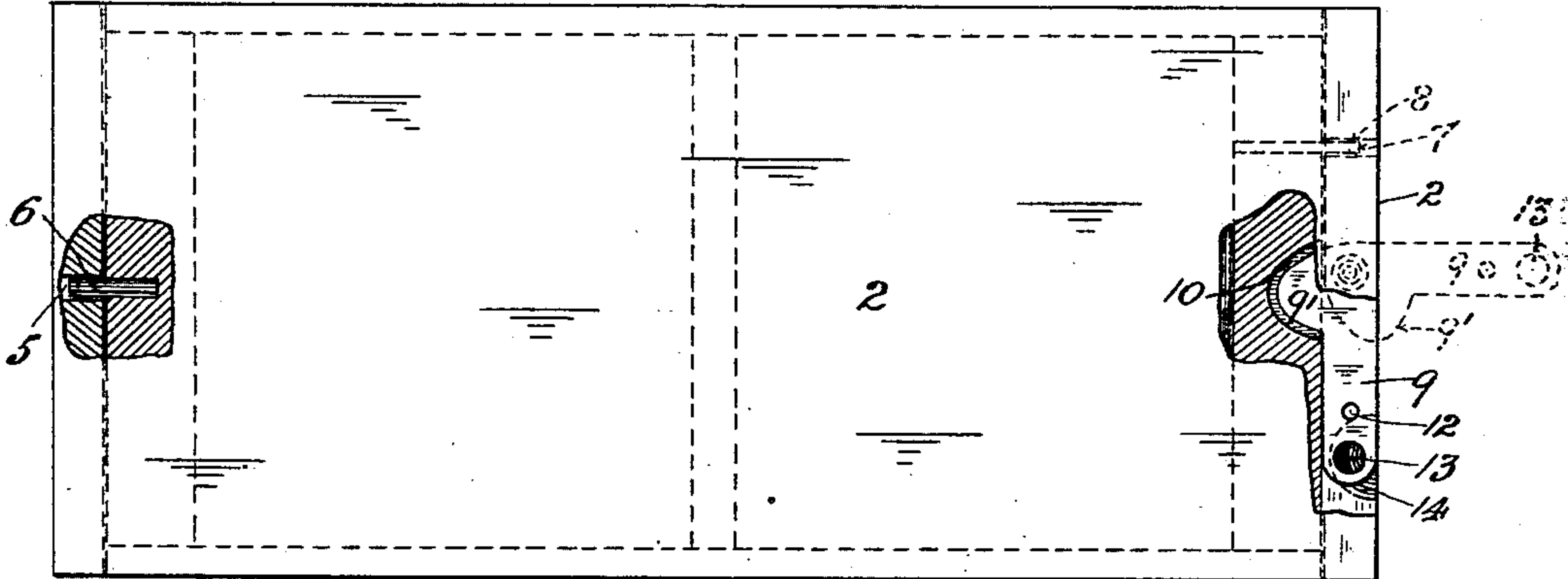


Fig. 2.

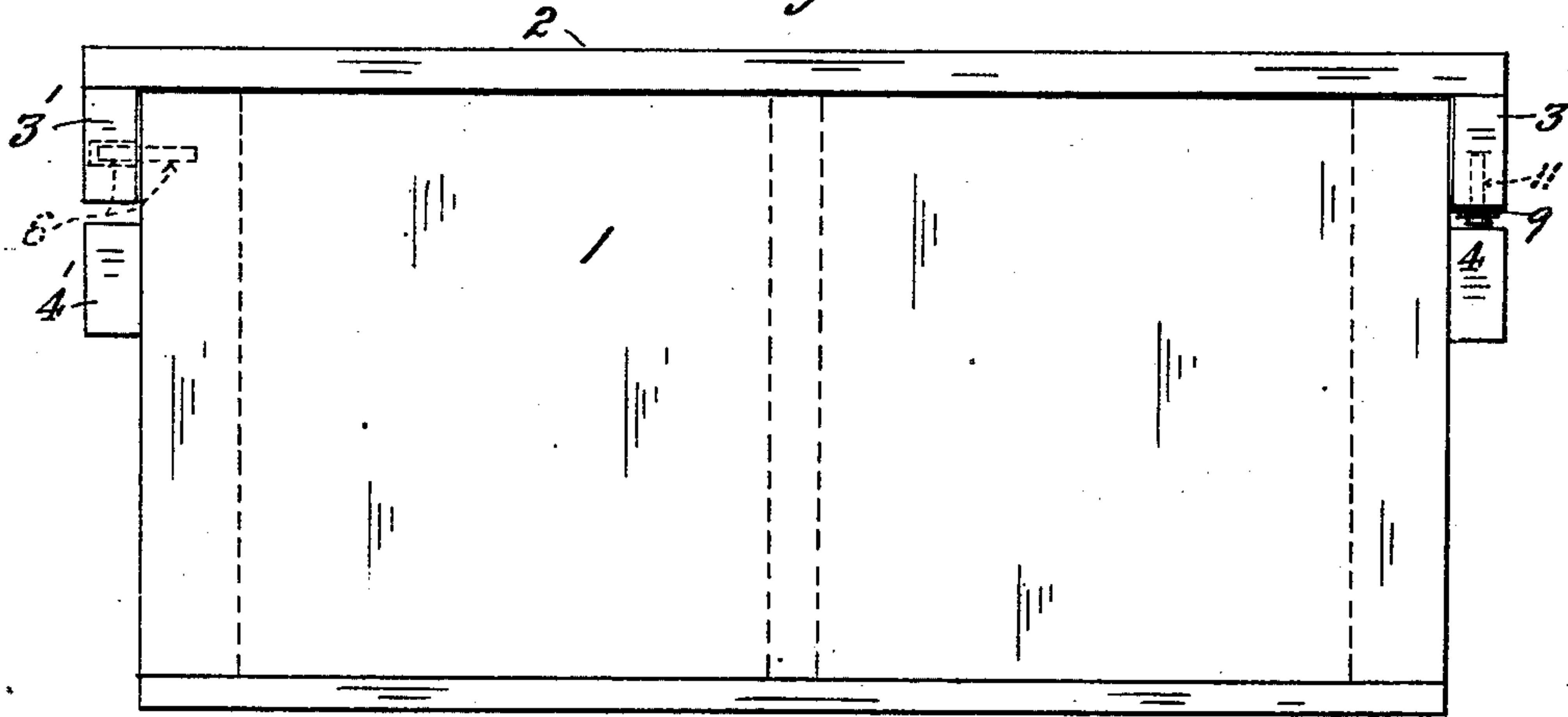


Fig. 3.

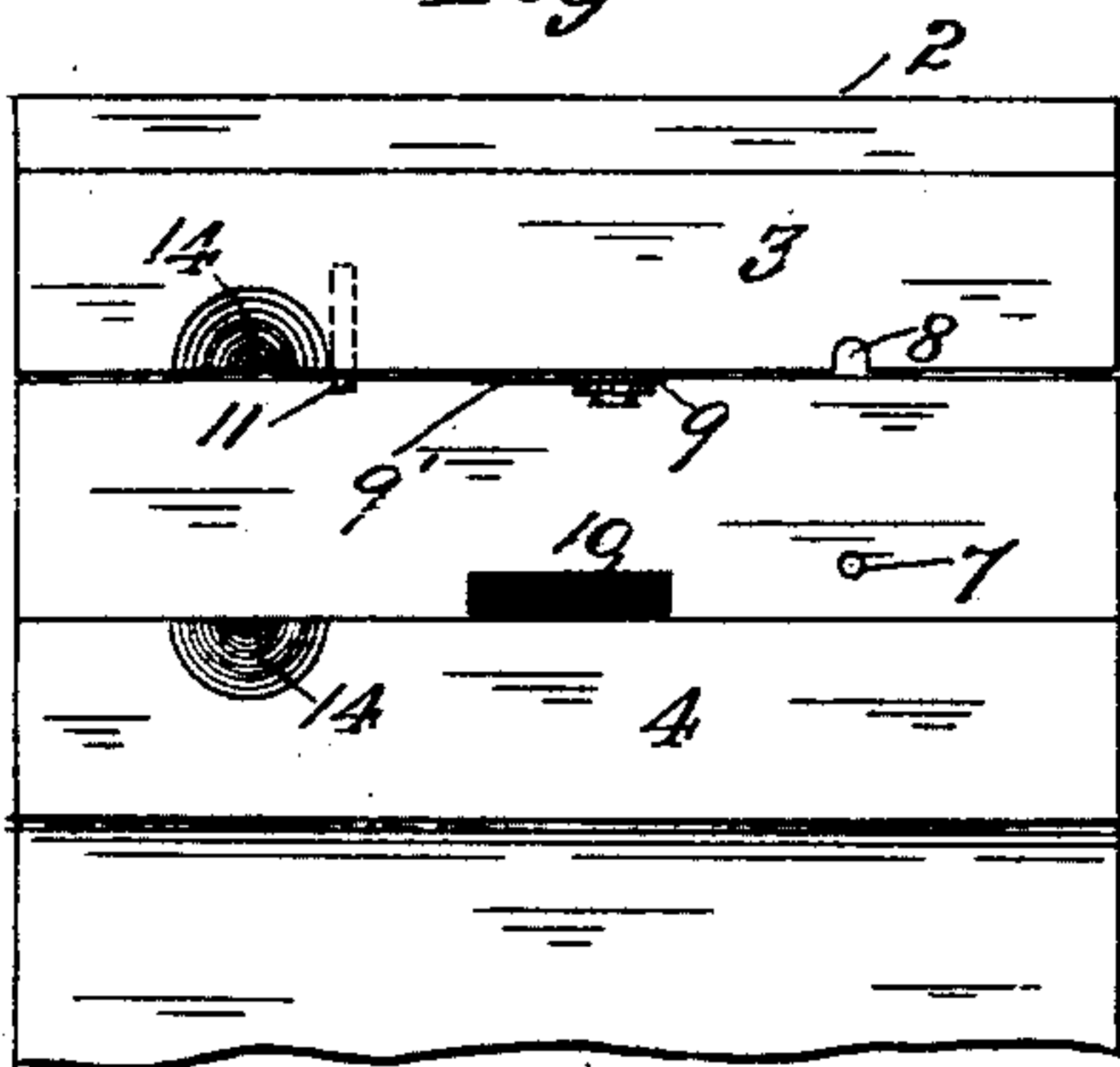


Fig. 4.

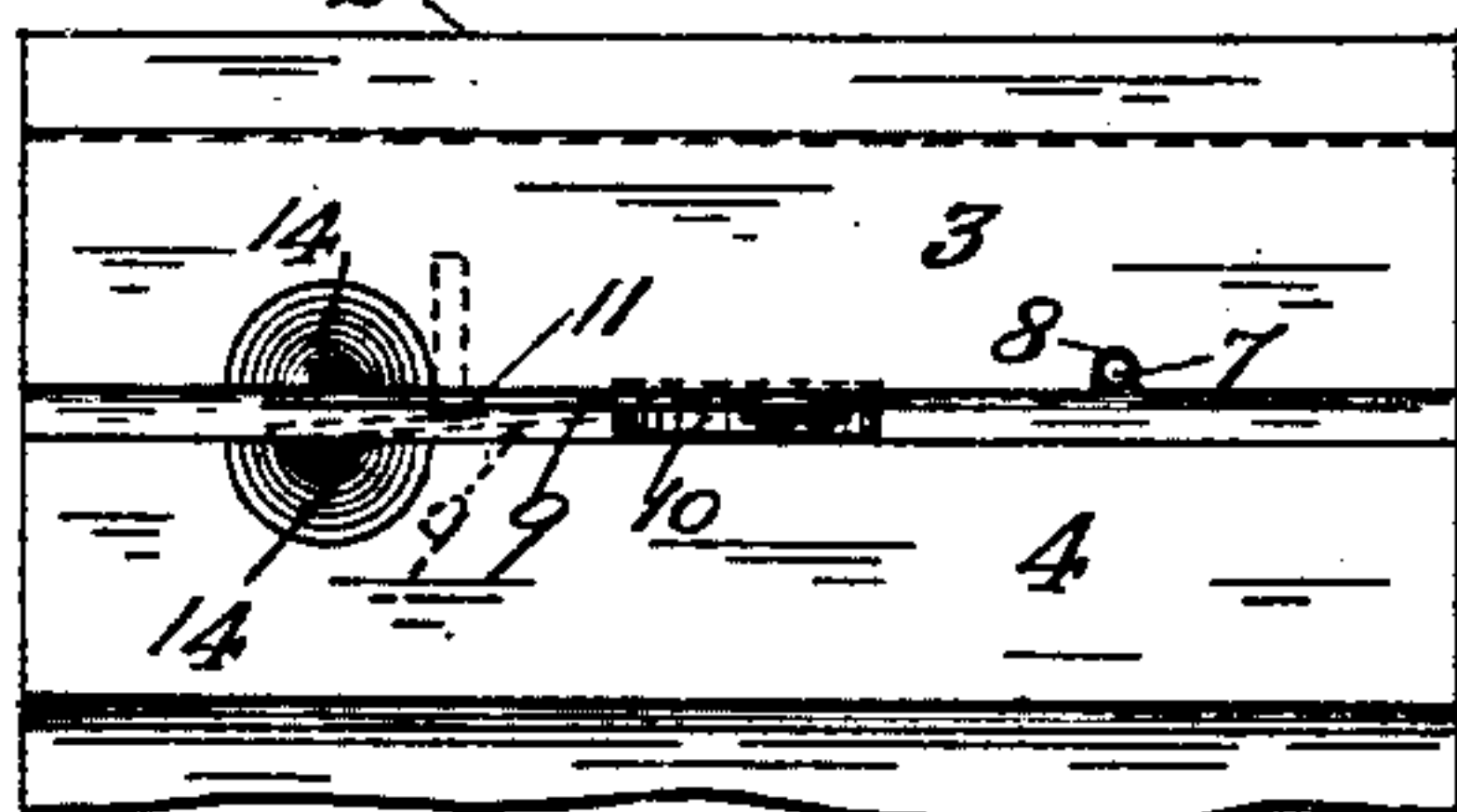
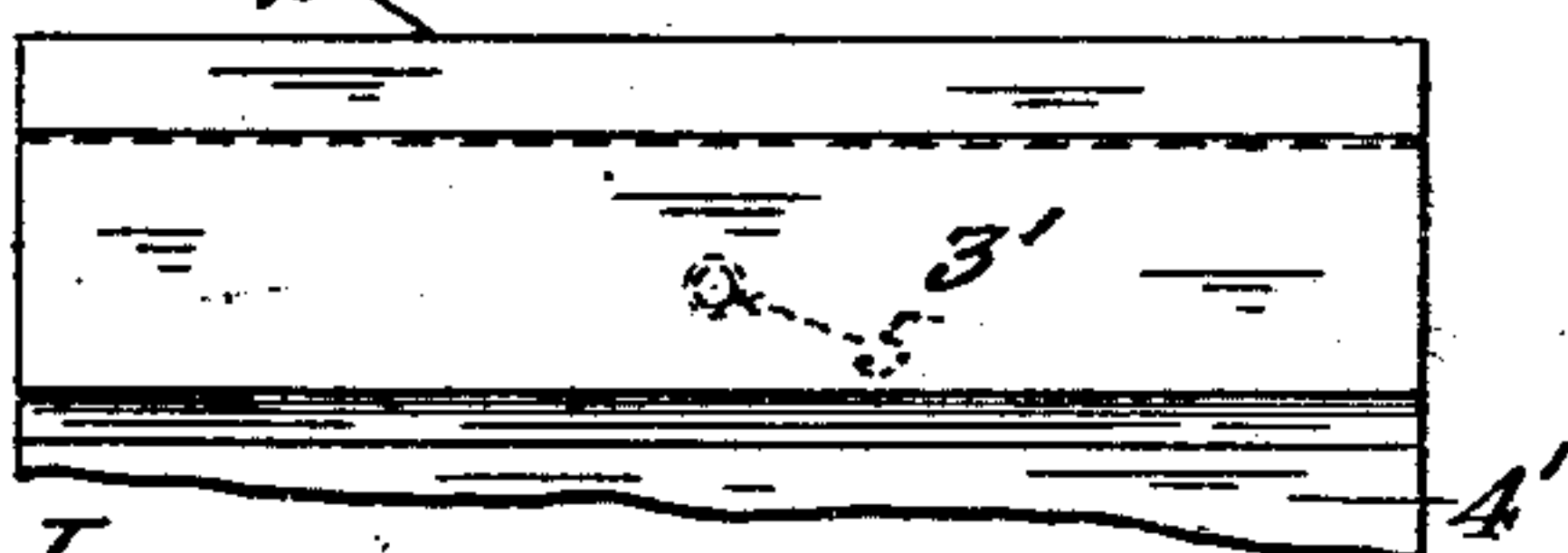


Fig. 5.



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GEORGE F. KNAPP, OF ST. LOUIS, MISSOURI.

BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 677,576, dated July 2, 1901.

Application filed March 23, 1901. Serial No. 52,574. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. KNAPP, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Box-Lid Fasteners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in box-lid fasteners; and it consists in the novel construction of fastener more fully set forth in the specification, and pointed out in the claims.

In the drawings, Figure 1 is a top plan view of the box with parts broken away to show the fastening device. Fig. 2 is a side elevation. Fig. 3 is an end elevation showing the lid partially raised and the locking-lever in its disengaged position. Fig. 4 is a similar view showing the lid closed and the locking-lever in its engaged or locked position; and Fig. 5 is a rear end elevation, a portion of the box being broken away in the last three views.

The object of my invention is to construct a box-lid fastener which shall be simple, durable, cheap, positive in action, readily applied to the majority of box-lids, and one possessing further and other advantages better apparent from a detailed description, which is as follows:

Referring to the drawings, 1 represents the body portion of a box or case, and 2 the lid thereof, the under surface of the latter having secured thereto at each overlapping end thereof the strips 3 3', overlapping the end walls of the body portion and located, respectively, above the ledges 4 4', secured to said walls. The strip 3' is provided with a socket 5 for the reception of a dowel 6, projecting from the end wall of the box above the ledge 4', said dowel serving to secure one end of the lid. The opposite end of the lid is insured against lateral movement by a dowel 7, entering a groove or recess 8, formed along the lower edge of the strip 3, to one side of the center thereof, the dowel 7 being above the ledge 4. To the center of the lower face of the strip 3 is pivoted a resilient lever or spring-plate 9, rotatable in a plane parallel to

the surface of the lid, the short arm of the lever being in the form of a lateral wing or enlargement 9', which when the long arm of the lever is swung inwardly into the space between the strip 3 and ledge 4 enters a pocket 10, formed in the adjacent end wall of the box, the lid being thus locked at that end and prevented against any upward movement. As the lever 9 is swung inwardly the long arm thereof, which is resilient, is automatically locked by a downwardly-projecting pin or peg 11, carried by the lid, slipping into a hole 12 formed for its reception in the lever. To swing the lever outwardly or unlock the same, the operator seizes the free end thereof by bringing his forefinger and thumb together through the terminal opening 13 thereof, (said opening merely serving as a means whereby the lever can be seized to better advantage,) the strip 3 and ledge 4 being cut away at 14 to accommodate the fingers referred to.

It may be stated that the adjacent surfaces of the strip 3 and ledge 4 are not actually in contact, the same being separated by the dowel 7 a distance sufficient to allow for the necessary depression of the lever or spring 9 to permit the same to be released from engagement with the pin 11. (See Fig. 4.)

It is apparent, of course, that the present lock may be applied to both ends of the lid, if desirable. So, also, is it apparent that minor changes may be made in the construction thereof without departing from the spirit of my invention.

Having described my invention, what I claim is—

1. In a box-lid fastener, a suitable lid, a resilient lever pivotally secured to the under side thereof exterior to the adjacent wall of the box, a laterally-disposed wing forming the short arm of the lever, a pocket formed in the wall of the box for the reception of said wing, and means carried by the under surface of the lid for locking the lever when swung to its engaging position, substantially as set forth.

2. In a box-lid fastener, a suitable lid, a resilient lever or spring pivotally secured to the under side of the lid at a point outside the adjacent wall of the box, a lateral wing

forming the short arm of the lever, a pocket
formed in the wall of the box, a pin or peg
carried by the under surface of the lid, the
long arm of the lever having a hole for the
5 passage of the peg to lock the lever when
swung to its engaging position, substantially
as set forth.

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

GEORGE F. KNAPP.

Witnesses:

EMIL STAREK,
G. L. BELFRY.