

No. 850,032.

PATENTED APR. 9, 1907.

G. C. MILLER.
REFRIGERATOR FASTENING.
APPLICATION FILED APR. 27, 1905.

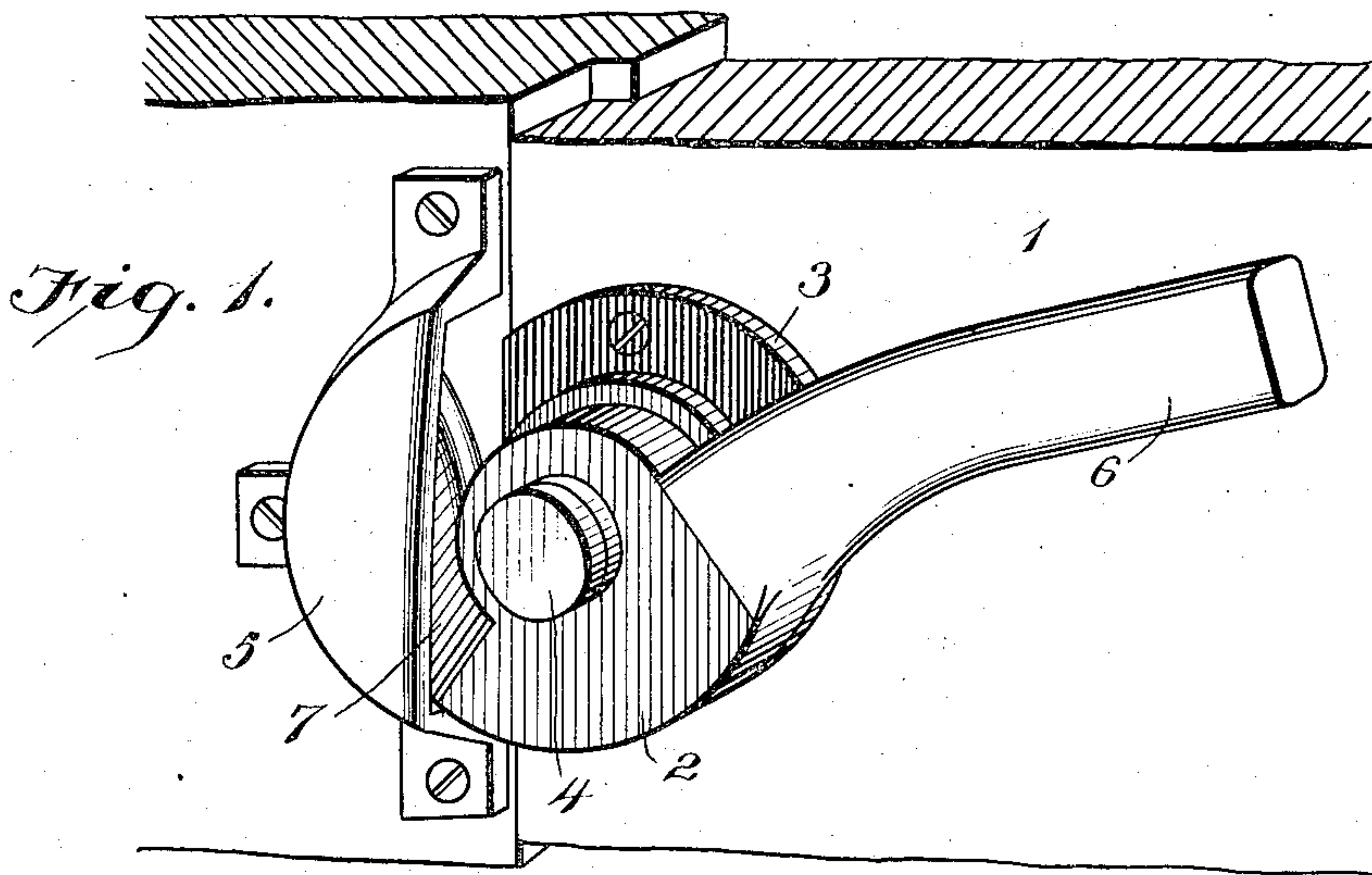


Fig. 2.

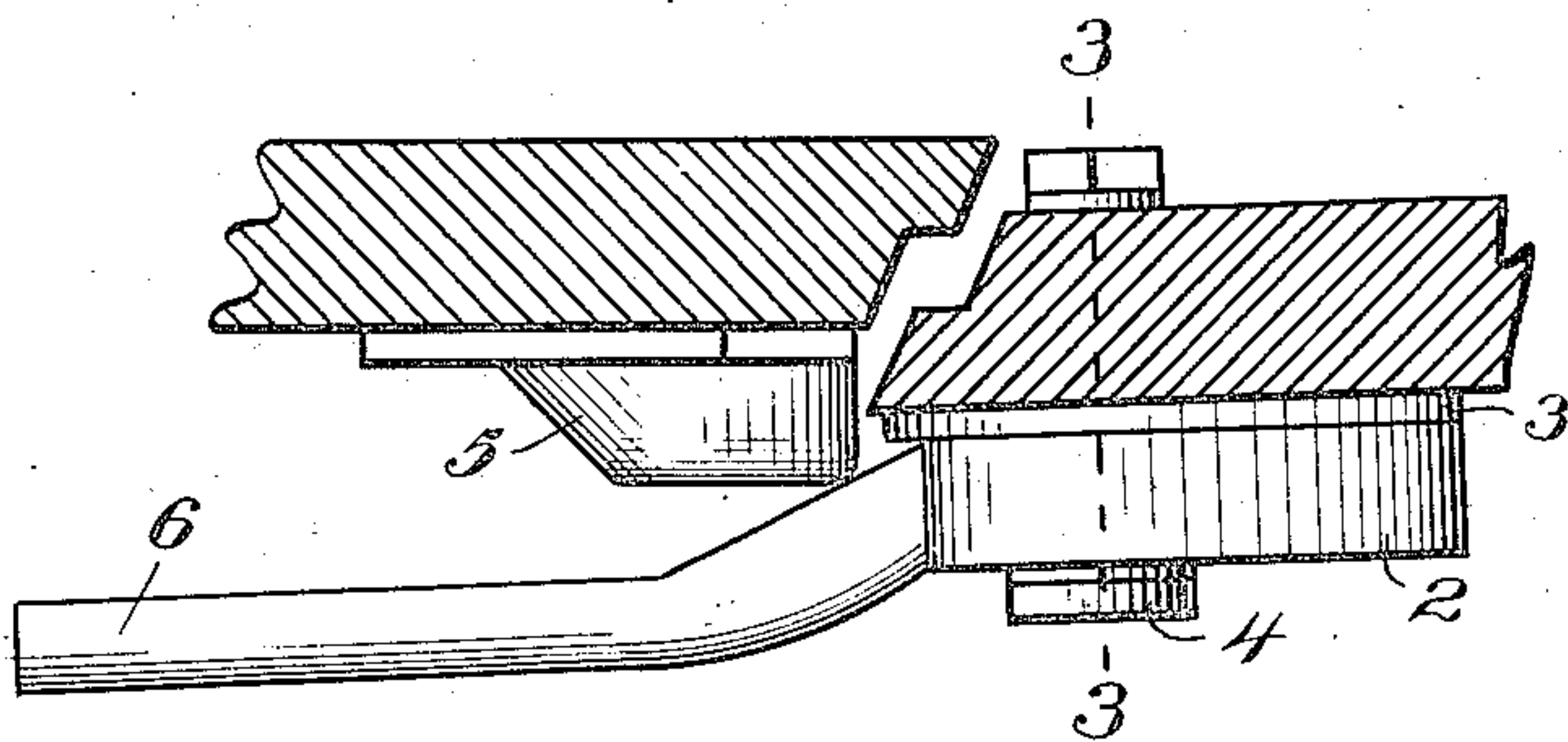


Fig. 3.

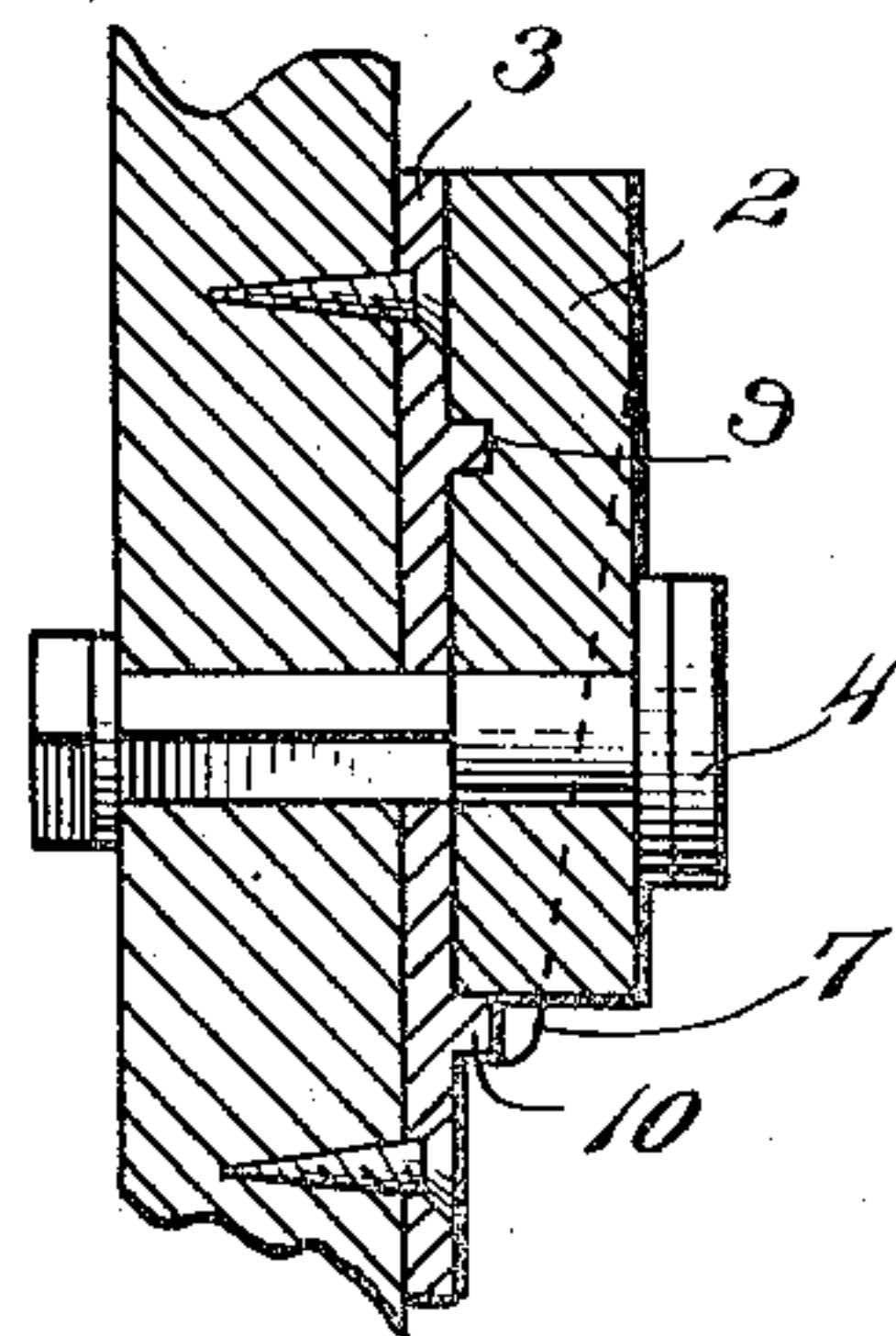


Fig. 4.

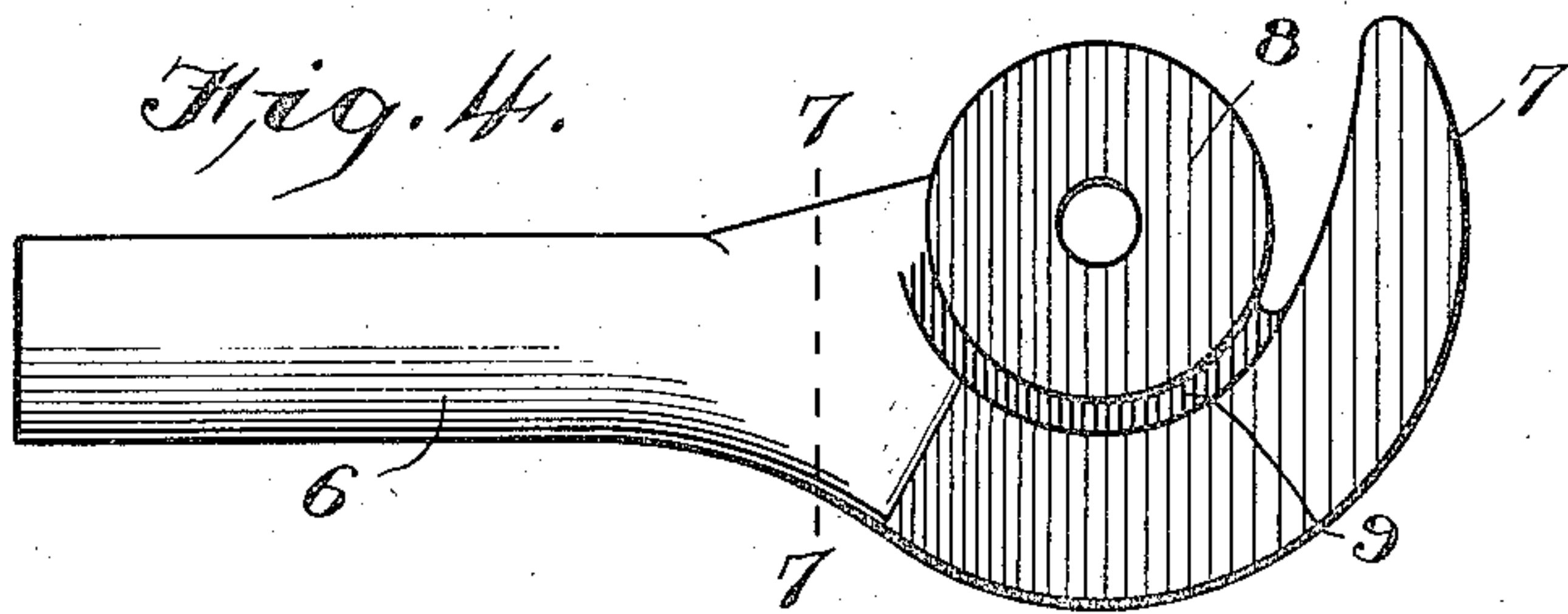


Fig. 5.

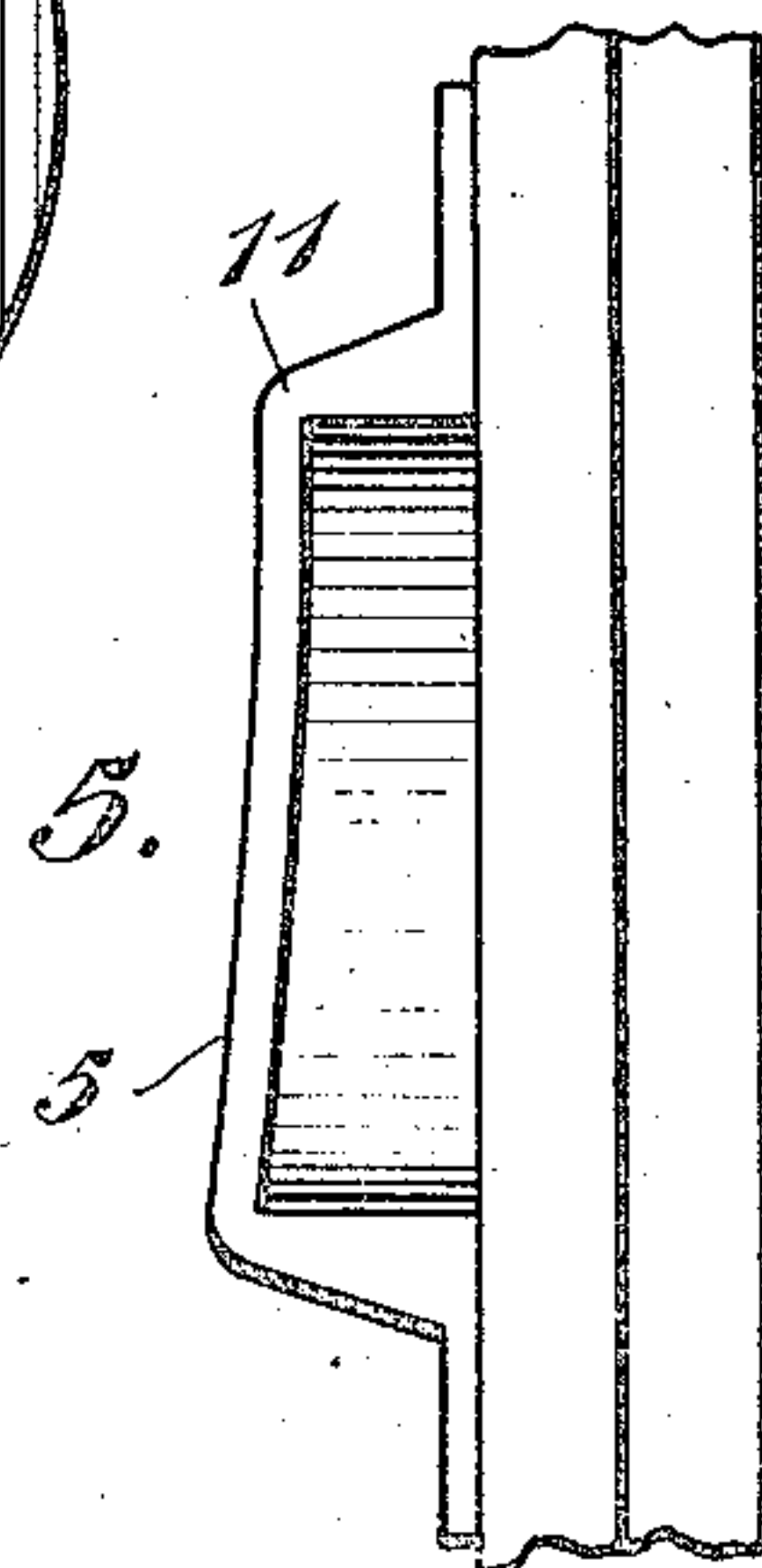
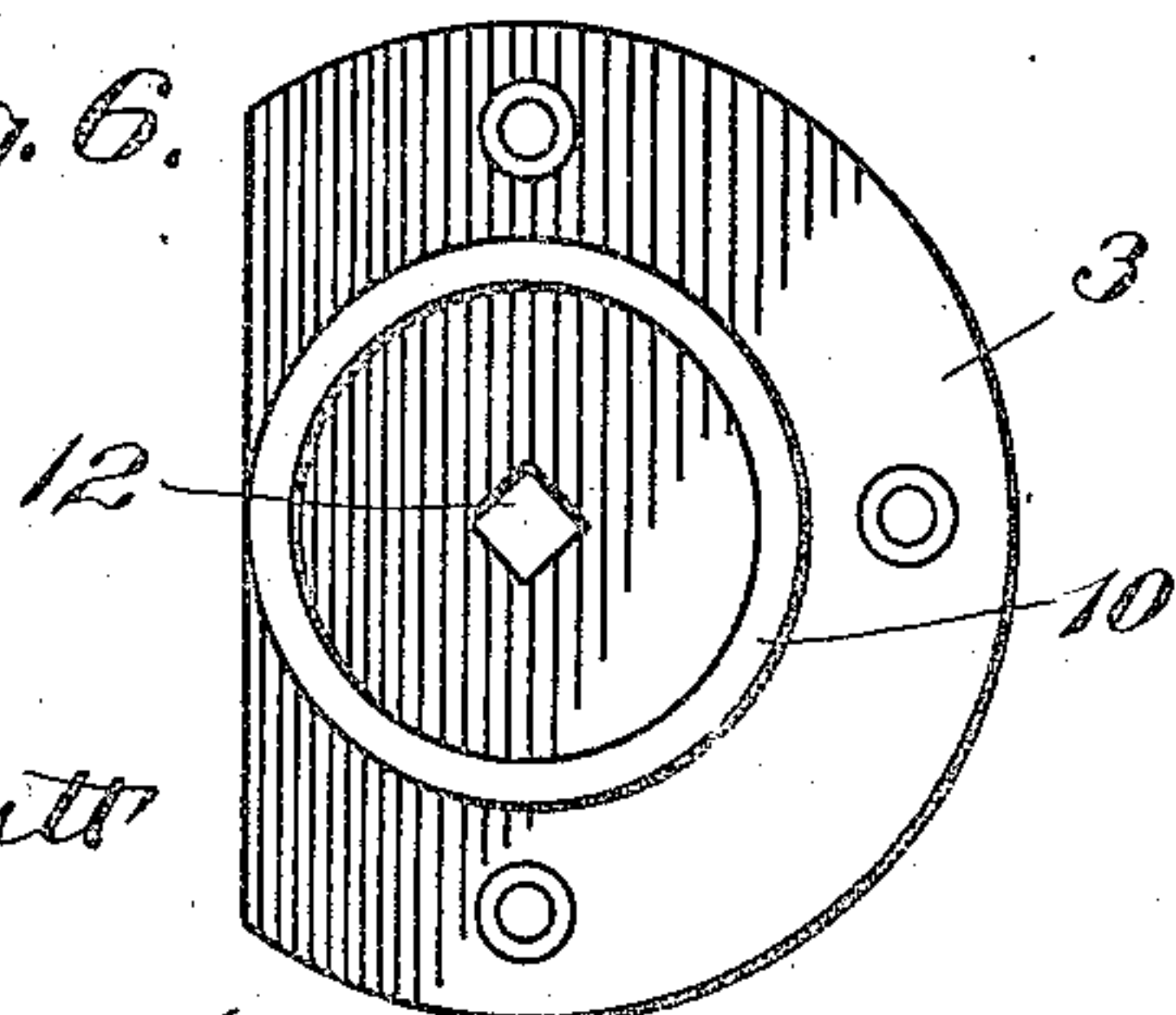


Fig. 6.



Witnesses

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REFRIGERATOR-FASTENING.

No. 850,032.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed April 27, 1905. Serial No. 257,702.

To all whom it may concern:

Be it known that I, GEORGE C. MILLER, a citizen of the United States, residing at Fairfax, in the county of Renville and State of Minnesota, have invented certain new and useful Improvements in Refrigerator-Fastenings; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to fastenings for airtight light and heavy doors—such as ice-box, cooler, and refrigerator doors—and has for its object to provide a device of this class which is particularly simple in construction, cheap to manufacture, strong, durable, and efficient.

It is a matter of common knowledge that certain doors, particularly those which are designed to be airtight and are subject to moisture, frequently swell, and are therefore most difficult to open.

In my device, as will be hereinafter fully described, I have provided a simple, novel, and efficient manner for forcing the door open as well as for forcing it to close tightly and securely.

My invention therefore consists in the novel construction providing for forcing open the door, in connection with the construction providing for tightly and securely forcing the door closed.

Referring to the accompanying drawings, Figure 1 is a perspective view of the fastening, showing door in closed position. Fig. 2 is a horizontal sectional view through door and casing, showing door forced open. Fig. 3 is a vertical section taken on line 3 3 of Fig. 2. Fig. 4 is a plan of fastening-lever. Fig. 5 is an edge view of keeper. Fig. 6 is a plan of bed-plate for fastening-lever, and Fig. 7 is a vertical section taken on line 7 7 of Fig. 4.

Like numerals of reference indicate the same parts throughout the several figures, in which—

1 indicates the device, which comprises a fastening-lever 2, bed-plate 3 for said fastening, a bolt or pivoting element 4, and a keeper 5.

6 indicates the handle of the fastening-lever, and 7 is the cam-hooked keeper-engaging portion.

As will be seen from Fig. 4, the bottom face 8 of the fastening-lever is provided with a groove 9, while the bed-plate 3 is provided with an annular tongue 10, Fig. 6, entering said groove 9.

Referring particularly to Fig. 5, it is seen that the top 11 of the keeper 5 is dished or concaved and that it is wider at the bottom than at the top, the purposes of which construction will be presently described.

The handle 6 of the fastening-lever at the point indicated by dotted line 7 7, Fig. 4, is formed like a cam, as will be seen from Fig. 7. It is thus seen that the lever is provided with two cams, one on each side of its pivotal point.

Having thus described the several parts of my invention, its operation is as follows: The device is secured in position as shown in Fig. 1, the fastening-lever being pivoted in line with the axis of the door. In order to force the door tightly closed after shutting the door, the handle 6 of the fastening-lever is lowered, which forces the cam-hooked portion 7 within the keeper 5, and by reason of said cam acting against the inner face of the keeper the door is forced into a close tight engagement with its casing. In order to open the door, however, the handle 6 is raised and rotated until the cam portion of the handle comes in contact with the top 11 of the keeper 5, as shown in Fig. 2. The handle is then forced down, which causes said cam portion to travel down the concaved inclined plane presented by the top of the keeper, which exerts a great drawing strain upon the door and forces it open, as shown in Fig. 2, the bed-plate 3 and tongue 10 thereon forming a long rigid bearing for the fastening-lever and preventing the lever from biting into the wood of the door. As a further protection to the door and as a guard against accidental loosening of the bolt 4 it will be seen that the bed-plate 3 is formed with a rectangular opening 12 for said bolt. The portion of said bolt which passes through said bed-plate and door is swaged square or rectangular. Thus the bolt is securely held against rotation, thereby minimizing loosening of the same.

Having thus fully described my invention, I do not wish to be understood as limiting myself to the exact construction as herein set forth, as various slight changes may be made therein which would fall within the limit and scope of my invention, and I con-

sider myself clearly entitled to all such changes and modifications.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

In a fastening of the character described, the combination with a keeper which is wider at one end than at the other, of a fastening-lever and plate therefor, an annular tongue
10 on said plate arranged to enter a corresponding groove in said fastening-lever, said lever comprising a cam-hook at one end for en-

gagement with the under side of the keeper, a handle at the other end and a cam portion between said handle and the pivotal point of the lever, said cam portion being arranged to engage the outside of the keeper, substantially as described. 15

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

GEORGE C. MILLER.

Witnesses:

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