

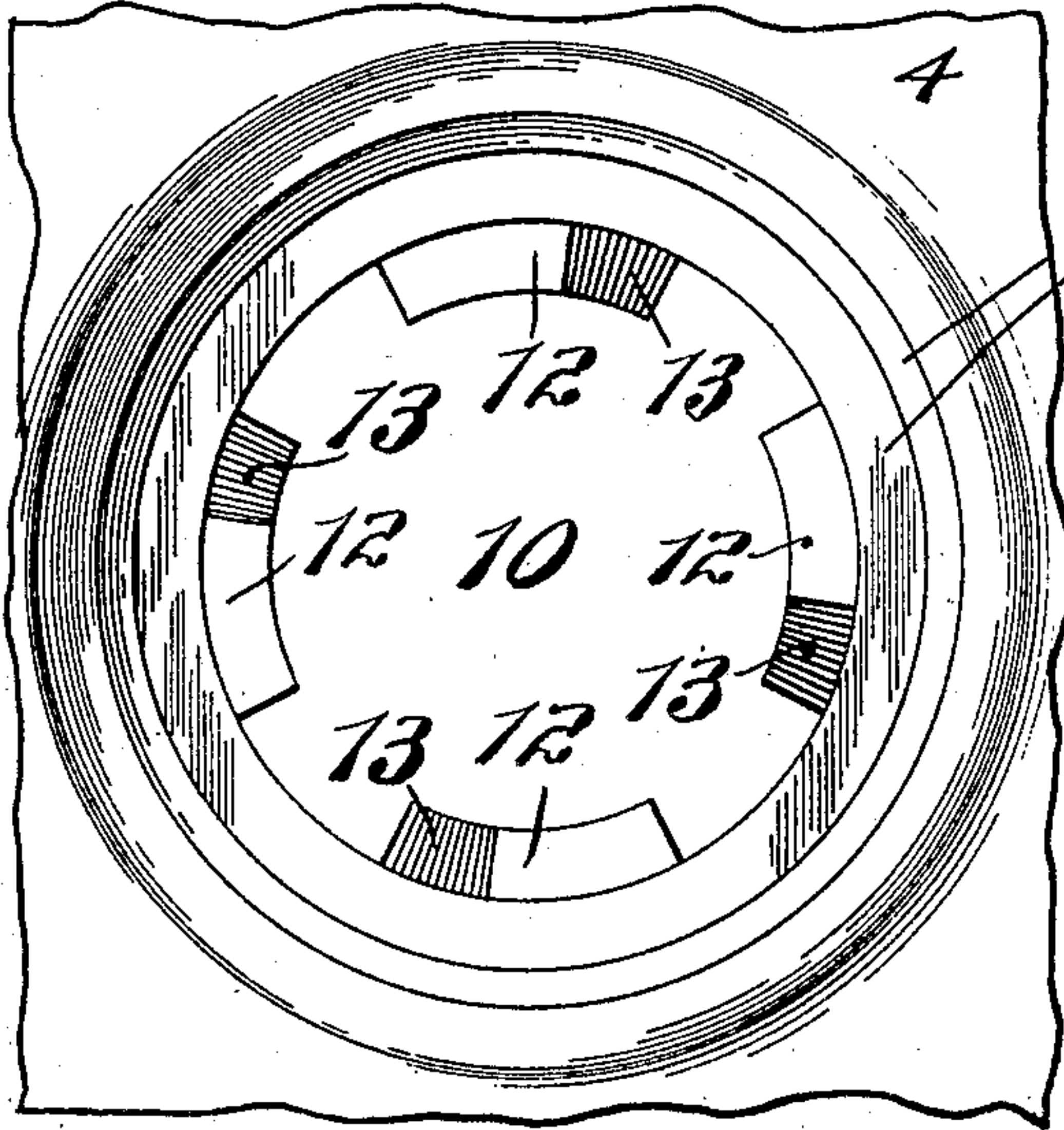
J. M. ALLEN.  
SAFE DOOR.

APPLICATION FILED JAN. 28, 1908.

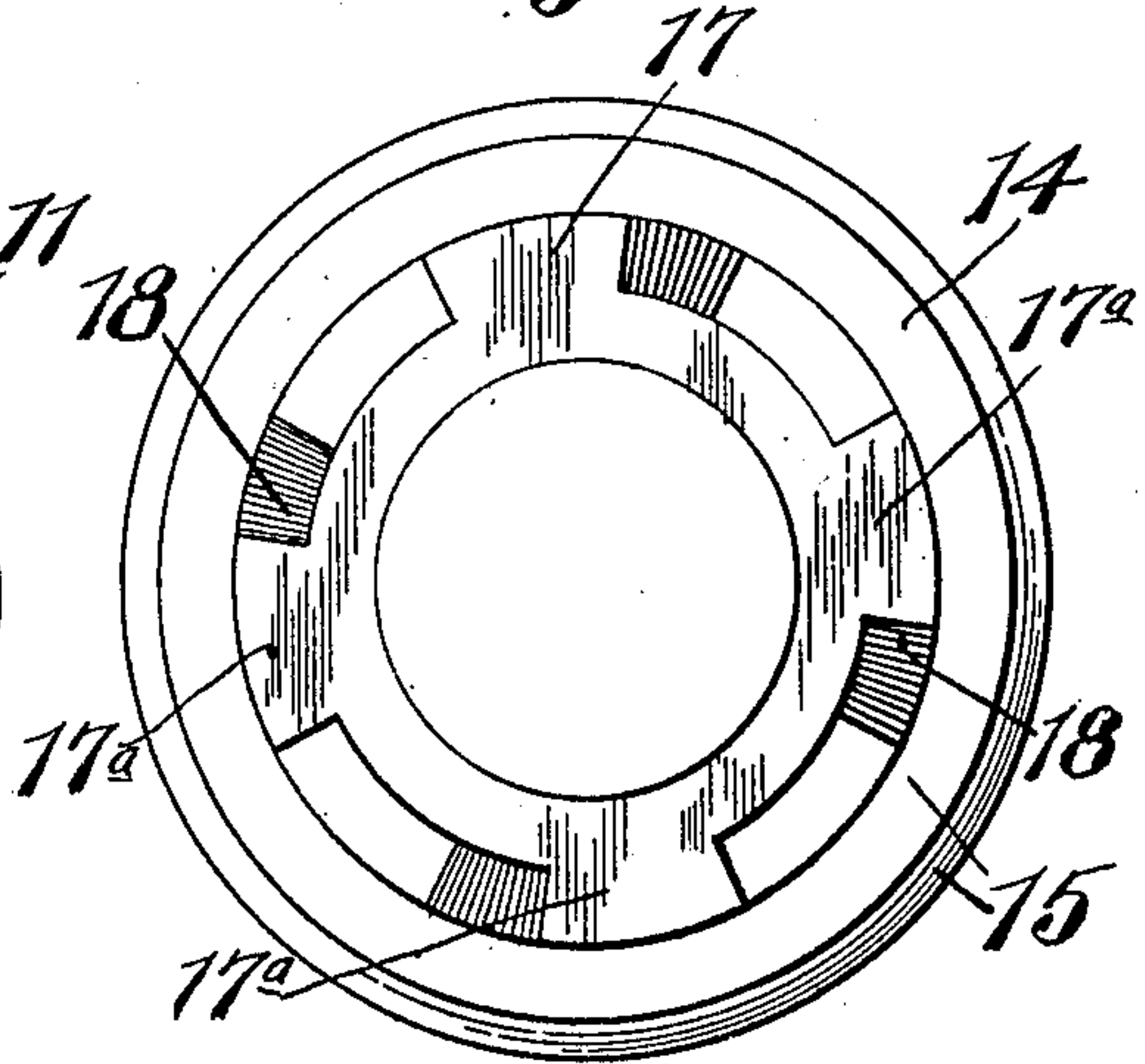
912,768.

Patented Feb. 16, 1909.

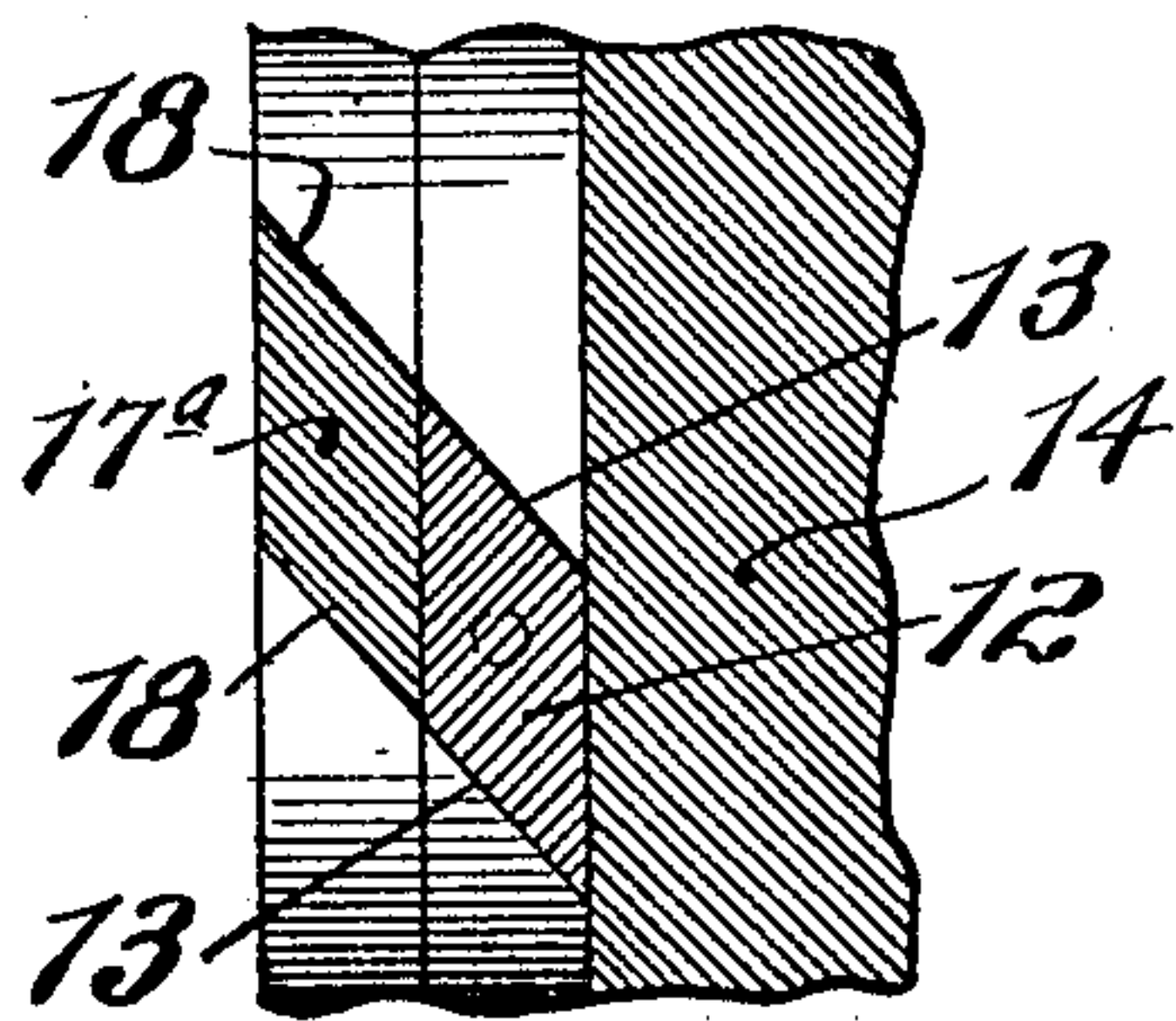
*Fig. 1.*



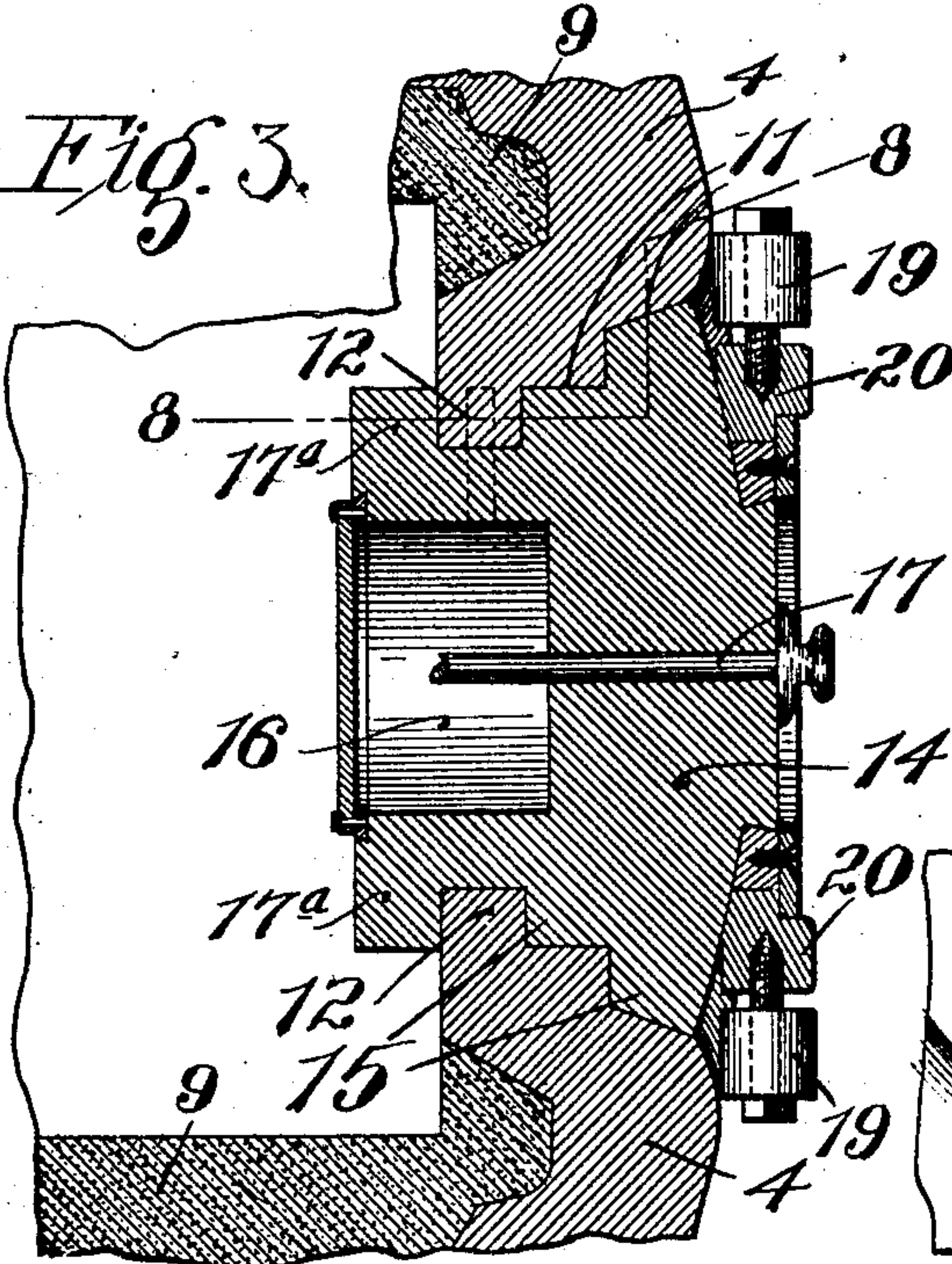
*Fig. 2.*



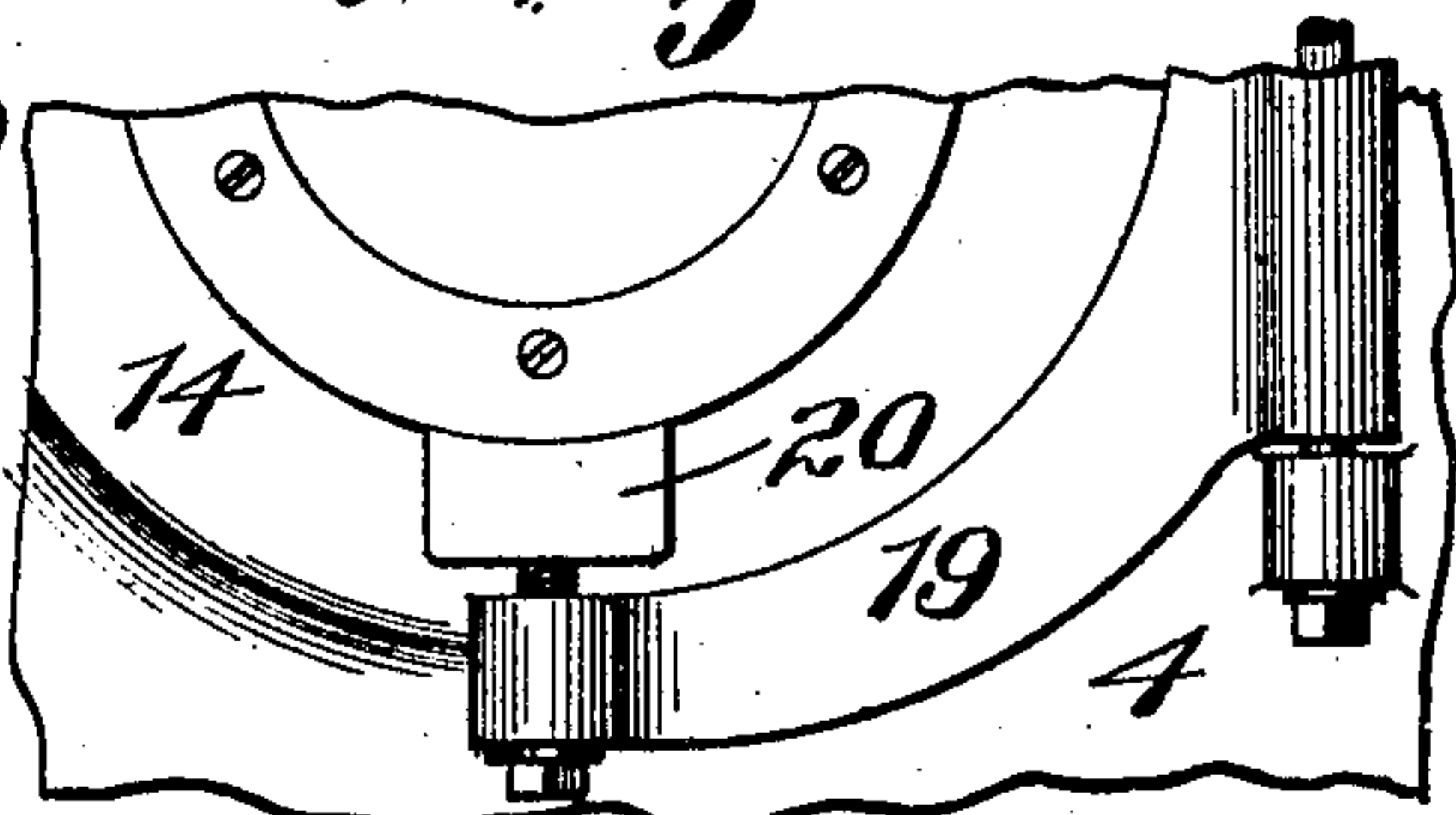
*Fig. 4.*



*Fig. 3.*



*Fig. 5.*



Attest.

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# UNITED STATES PATENT OFFICE.

JAMES M. ALLEN, OF ST. LOUIS, MISSOURI, ASSIGNOR OF TWO-FIFTHS TO CHRISTIAN F. SCHNEIDER AND ONE-FIFTH TO O. S. MILLER, BOTH OF ST. LOUIS, MISSOURI.

## SAFE-DOOR.

No. 912,768.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed January 28, 1908. Serial No. 413,107.

*To all whom it may concern:*

Be it known that I, JAMES M. ALLEN, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Safe-Doors, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to a safe door, my object being to construct a circular door which fits snugly within a corresponding opening formed in the wall of the safe, and said door being provided on its inner edge with a series of lugs which are adapted to engage behind corresponding lugs formed on the body of the safe around the door opening therein.

To the above purposes, my invention consists in certain novel features of construction and arrangement of parts which will be hereinafter more fully set forth, pointed out in the claim, and illustrated in the accompanying drawings, in which,

Figure 1 is an elevation of a portion of the front wall of a safe, showing the door opening therein; Fig. 2 is an elevation of the inside of a door of my improved construction; Fig. 3 is a vertical section taken through the center of the door as it appears when locked in the opening; Fig. 4 is a detailed section taken on the line 8—8 of Fig. 3; and Fig. 5 is a front elevation of a portion of the door hanger or support.

Referring by numerals to the accompanying drawings: 4 designates the body of a safe, in one wall of which is formed a circular door opening 10, there being a series of annular shoulders 11 formed in the front face of the wall around said opening, and formed integral with the edge of the wall around said opening is a plurality of radially arranged lugs 12, the ends of which are provided with inclined faces 13, the pair of faces on each lug being parallel.

The door 14 of my improved safe is formed to snugly fit in the opening 10, there being annular flanges 15 formed on the edge of said door, which flanges fit against the shoulders 11, and formed in the rear portion of the door is a recess 16, which is adapted to be occupied by the lock mechanism of the door, which mechanism is operated by a spindle 17 pass-

ing through the center of the door and entering the recess 16.

Formed integral with the inner face of the door is a plurality of radially arranged lugs 17<sup>a</sup>, the ends of which are provided with the inclined faces 18, and these lugs are of such size as that they will readily pass through the spaces between the lugs 12 on the front wall of the body of the safe.

19 designates a yoke which is hinged to the front wall of the safe to one side of the door opening therein, and pivotally held between the ends of said yoke is a ring 20, in which the door is rotatably held. When the door 14 is positioned in the opening 10, to close the safe the yoke 19 is swung forward in such a manner as that the door 14 enters the opening 10 and at this point the door 14 is rotated slightly toward the right in order to cause the lugs 17<sup>a</sup> to pass into and through the spaces between the lugs 12, which movement is readily accomplished, owing to the engagement of the inclined faces 13 and 18 on the ends of the lugs, and after the lugs 17<sup>a</sup> have passed between said lugs 12, the door is further rotated slightly to the right, which action moves the lugs 17<sup>a</sup> into positions immediately to the rear of the lugs 12. When so positioned, the flanges 15 fit snugly against the shoulders 11, thus very tightly closing the door opening, and the spindle 17 is now operated to throw the locking mechanism into a locked position.

A safe of my improved construction is compact, easily placed in or removed from position in the door opening, and during its movement into and out of said opening the beveled or inclined faces on the ends of the lugs assist the opening or closing action of the door, and when the lugs on the door are arranged behind the lugs on the body, the door is effectually locked.

I claim:

The herein described safe, comprising a hollow body having a door opening formed through one of its walls, lugs integral with the body around the door opening therein, the rear faces of which lugs are straight and the entire end faces of which lugs are beveled and the beveled end faces of each lug being parallel with each other, a door adapted to be positioned in the opening, a plurality of lugs integral with the door and adapted to

pass between the lugs on the safe body, the  
front faces of the lugs on the door being  
straight, and the entire faces on the ends of  
said last mentioned lugs being beveled to cor-  
5 respond to the beveled faces on the ends of  
the lugs on the safe body.

In testimony whereof, I have signed my

name to this specification, in presence of two  
subscribing witnesses.

JAMES M. ALLEN.

Witnesses:

M. P. SMITH,  
E. L. WALLACE.