

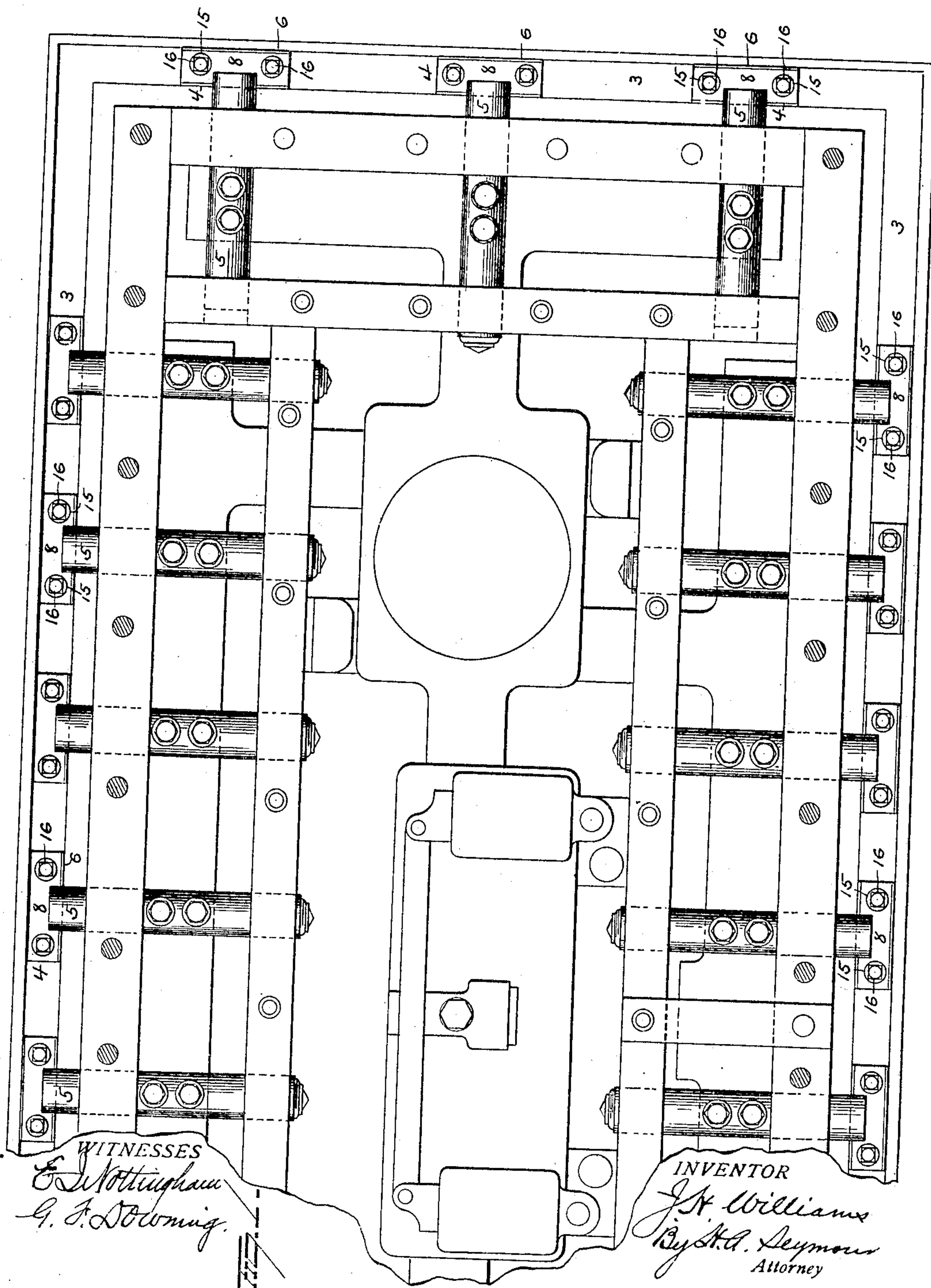
No. 871,844.

PATENTED NOV. 26, 1907.

J. H. WILLIAMS.
ADJUSTABLE BOLT BEARING FOR VAULT AND SAFE DOOR JAMBS.

APPLICATION FILED NOV. 28, 1906.

2 SHEETS—SHEET 1.



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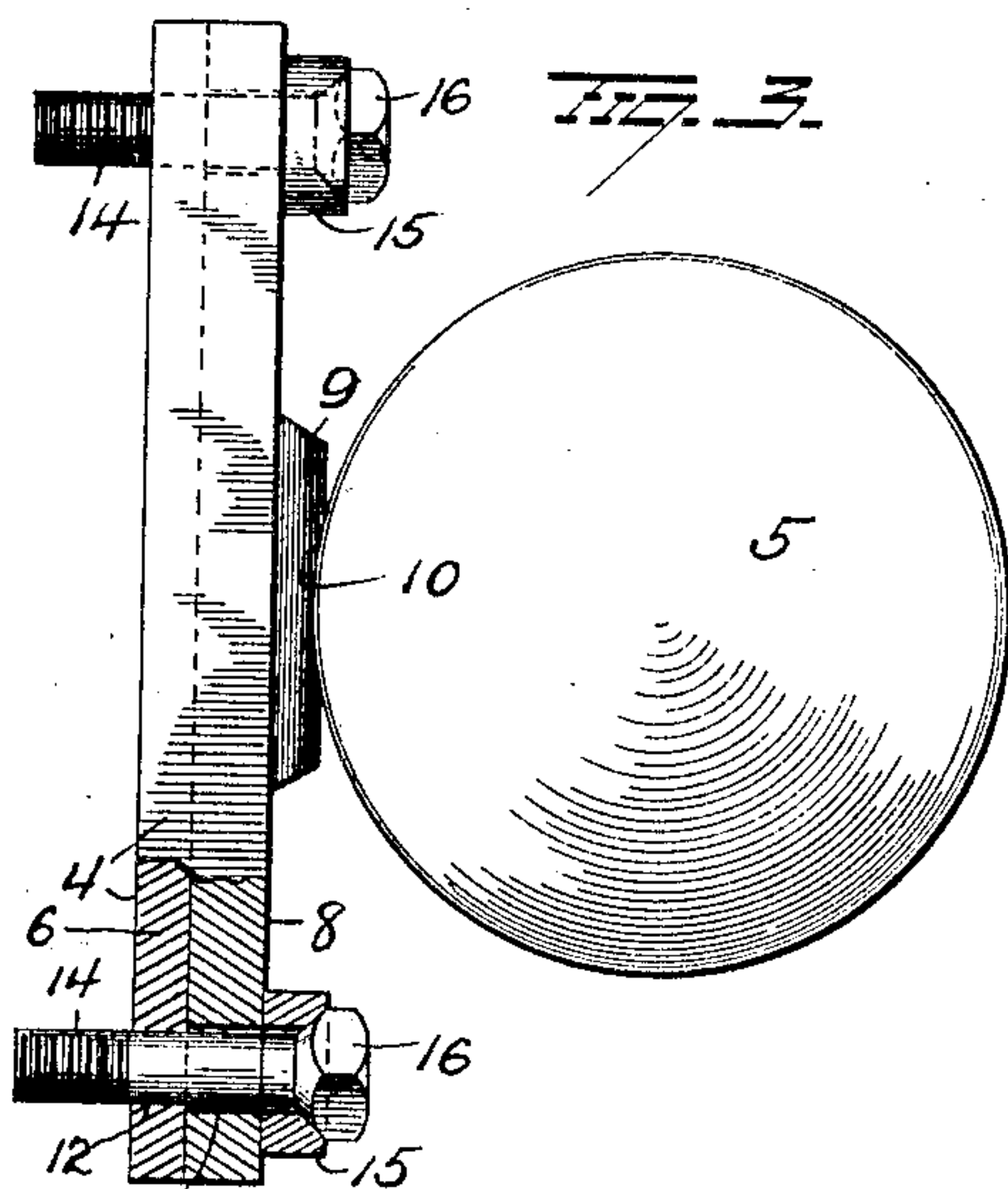
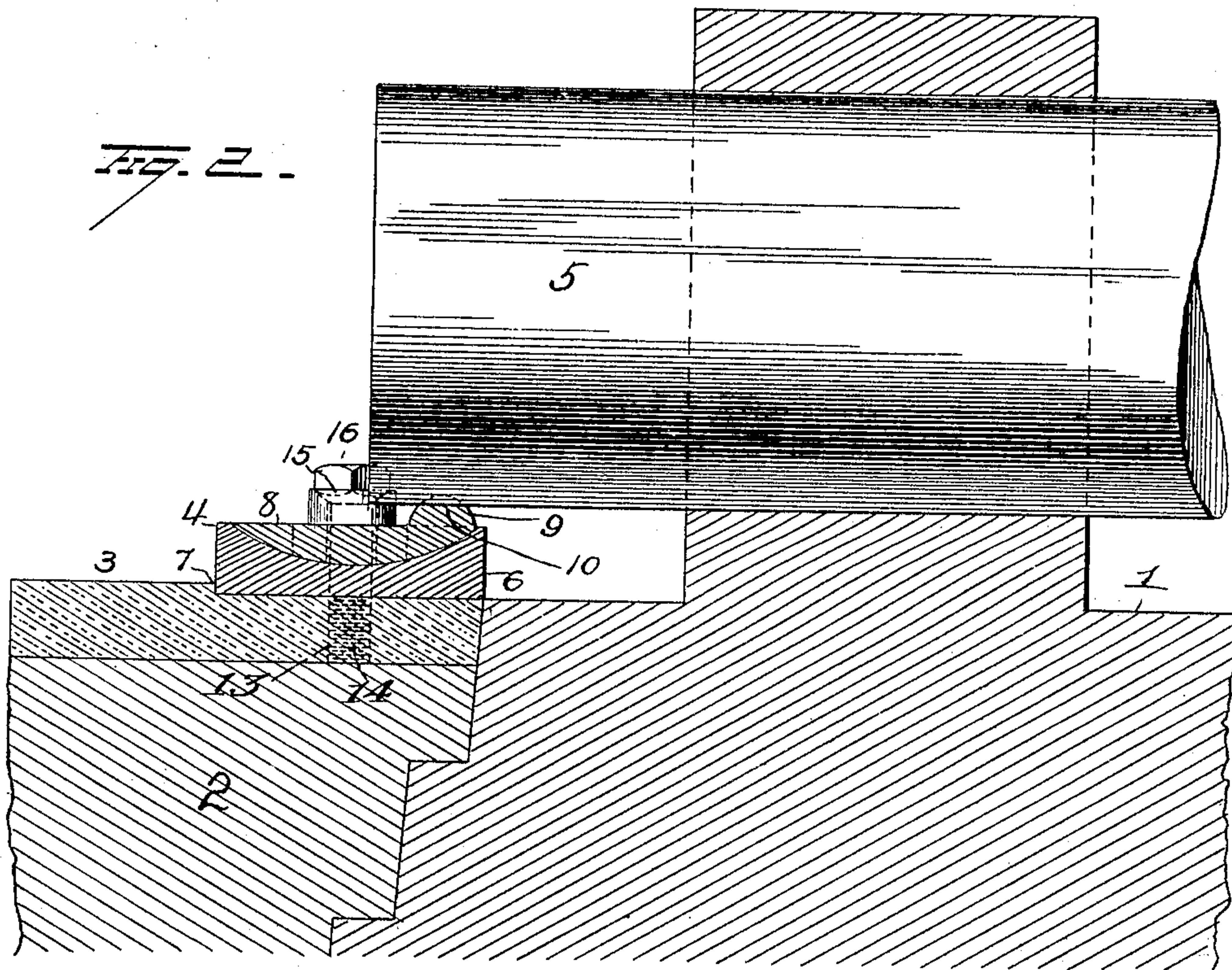
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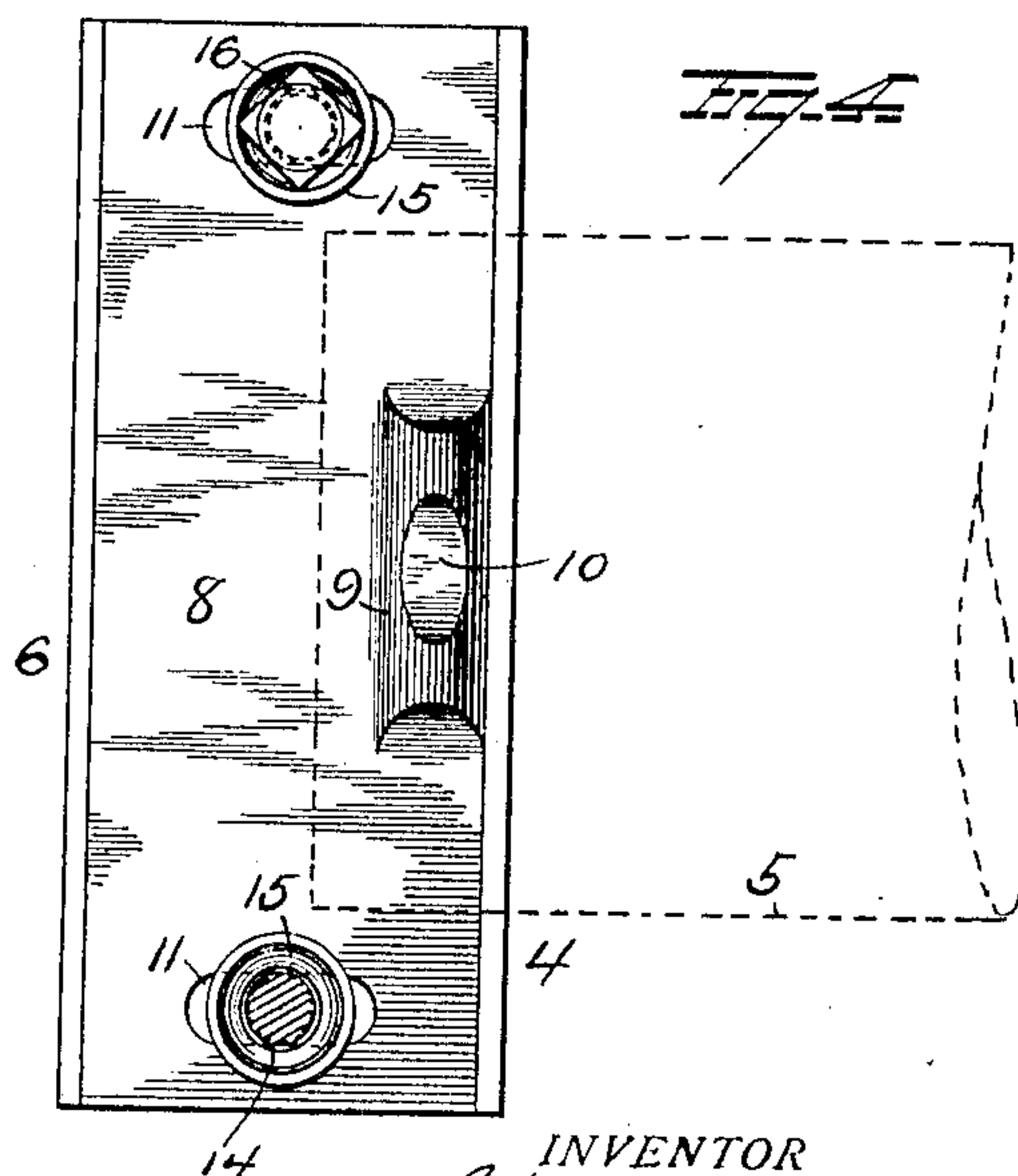
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UNITED STATES PATENT OFFICE.

JAMES HENRY WILLIAMS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO REMINGTON AND SHERMAN COMPANY, OF PHILADELPHIA, PENNSYLVANIA.

ADJUSTABLE BOLT-BEARING FOR VAULT AND SAFE DOOR JAMBS.

No. 871,844.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed November 28, 1906. Serial No. 345,505.

To all whom it may concern:

Be it known that I, JAMES HENRY WILLIAMS, a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Bolt-Bearings for Vault and Safe Door Jambs; and I do hereby 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.

My invention relates to an improved adjustable bolt bearing for vault and safe door jambs, the object of the invention being to provide a separate adjustable bearing for each and every bolt, which can be readily adjusted after the door is closed and the bolts shot or projected, thus insuring a perfect engagement of the bolts and their bearings.

With this and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts as will be more fully herein-after described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in elevation of the inner side of a vault door and jamb illustrating my improvements. Fig. 2 is a view in section, and Figs. 3 and 4 are detail views of the bearing.

1 represents a vault or safe door, 2 a jamb, and 3 represents jamb bars secured to the door jamb all around the door.

My improved adjustable bearings 4 are secured at proper intervals along the jamb bars 3, a bearing 4 being provided for each and every bolt 5 of the entire bolt work on the door.

Each bearing comprises a base block 6 of the proper width to fit the space between the edge of bar 3 and a longitudinal shoulder 7 thereon, and having its outer face made laterally concave. An outer block 8 is made with a laterally convex inner face to fit the concave face of base block 6, and is made with an enlargement 9 at one edge, having a depression 10 midway its ends, to receive the bolt 5 thereagainst. Outer block 8 near its ends, is made with slots 11, registering with openings 12 in base blocks 6 and the latter openings 12 aline with screwthreaded openings 13 in bar 3, for the reception of clamping screws 14 passed through washers 15 on the outer face of outer block 8, thence through slots 11, and openings 12, into threaded open-

ings 13 to clamp the outer block 8 at any adjustment and secure the bearing to the bar 3. Angular heads 16 are provided on the outer ends of screws 14 to receive a wrench to turn them, and the inner faces of the heads 16 are preferably made of general convex or curved form to fit into the concaved outer ends of the washers 15.

It will be seen that by moving the outer block 8 laterally on block 6 (after the screws 14 are loosened) the curved engaging faces of the blocks, will compel the outer block 8 to move the bearing enlargement 9 out from the jamb or toward the same, according to the direction of movement and hence permit a perfect adjustment of the bearing.

In operation, the door is closed and the bolts 5 shot or projected outward to locking position. A workman on the inside of the vault or safe, then adjusts all the bearings, as above explained and firmly clamps them at the proper adjustment by the screws 14, and should another adjustment be required at a future time, it can readily be made.

Slight changes might be made in the general form and arrangement of the parts described without departing from my invention and hence, I do not restrict myself to the precise details set forth but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. A device of the character described, comprising a base block having a laterally concave outer face, an outer block having an inner laterally convex face, and means for clamping the blocks together at various adjustments of the outer block laterally on the base block.

2. A device of the character described, comprising a base block having a laterally concave outer face, an outer block having a laterally convex inner face and provided with slots, and clamping screws located in the slots in the outer block and in openings in the base block to clamp the blocks together.

3. In a device of the character described, the combination with a jamb bar, of a block thereon having a laterally concave outer face, an outer block having a laterally convex inner face, the outer block having slots,

and the inner block having openings registering with said slots, and clamping screws located in said slots and openings and screwed into the jamb bar.

5 4. In a device of the character described, the combination with a jamb bar, of a block thereagainst having a laterally concave outer face, an outer block having a laterally convex inner face, the outer block having slots,
10 and the inner block having openings registering with said slots, clamping screws passing through said slots and openings and screwed into the jamb bar, heads on the outer ends of the screws having curved inner faces, and
15 washers on the screws between the outer block and the screw heads and having concave outer ends to receive the screw heads.

5. In a device of the character described, the combination of a fixed block and a super-
20 imposed movable block, one having a con-

cave engaging face and the other having a convex engaging face, and means for securing said blocks together and to the jamb of a safe or vault.

6. In a device of the character described, 25 the combination of a fixed block and a superimposed movable block, said blocks having concave and convex contacting faces respectively, means for securing said blocks together and to the jamb of a safe or vault, the 30 movable block provided with a projection at one edge having a concave depression.

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

JAMES HENRY WILLIAMS.

Witnesses:

W. R. WOOTERS,
JOHN F. FOX.