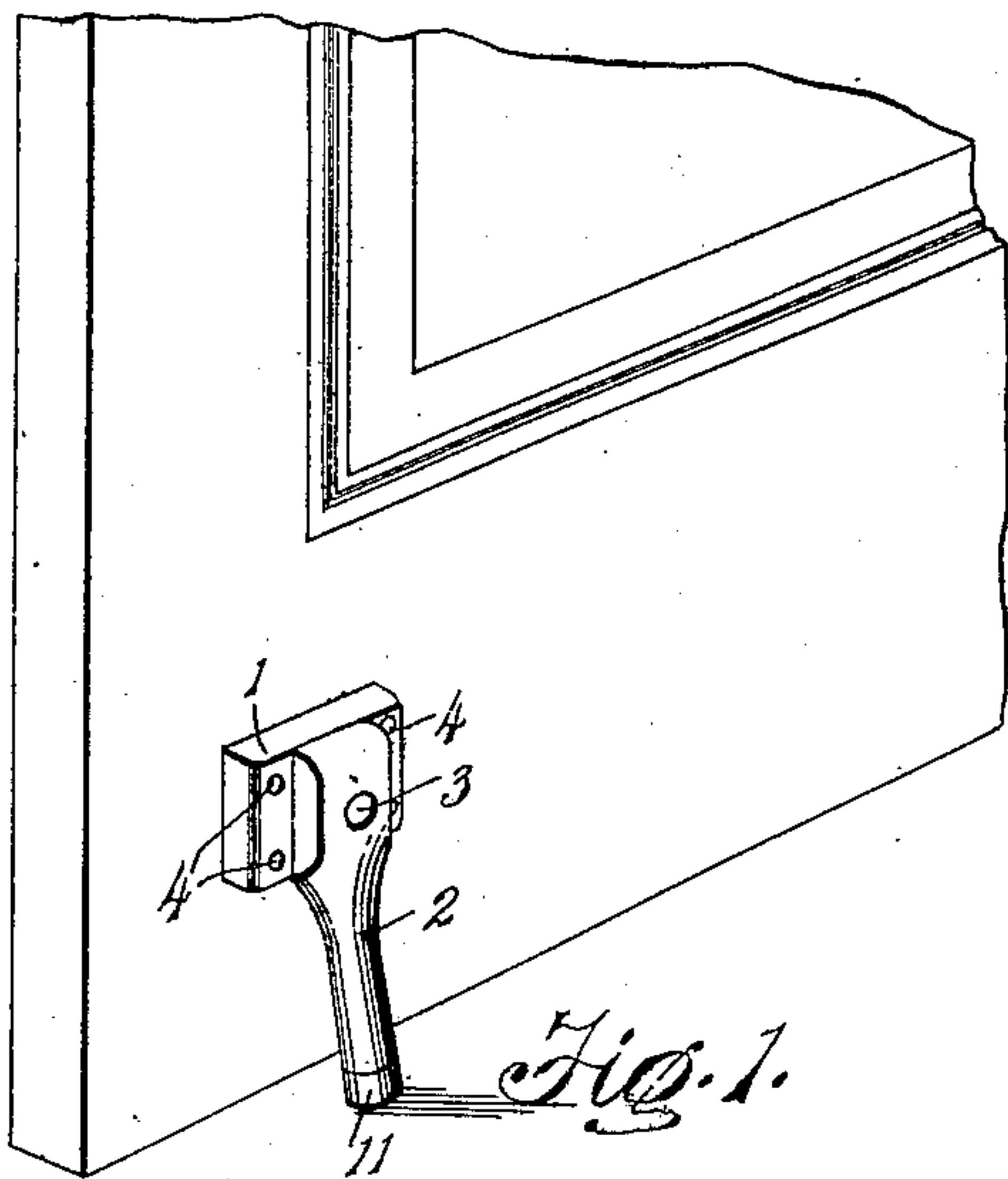


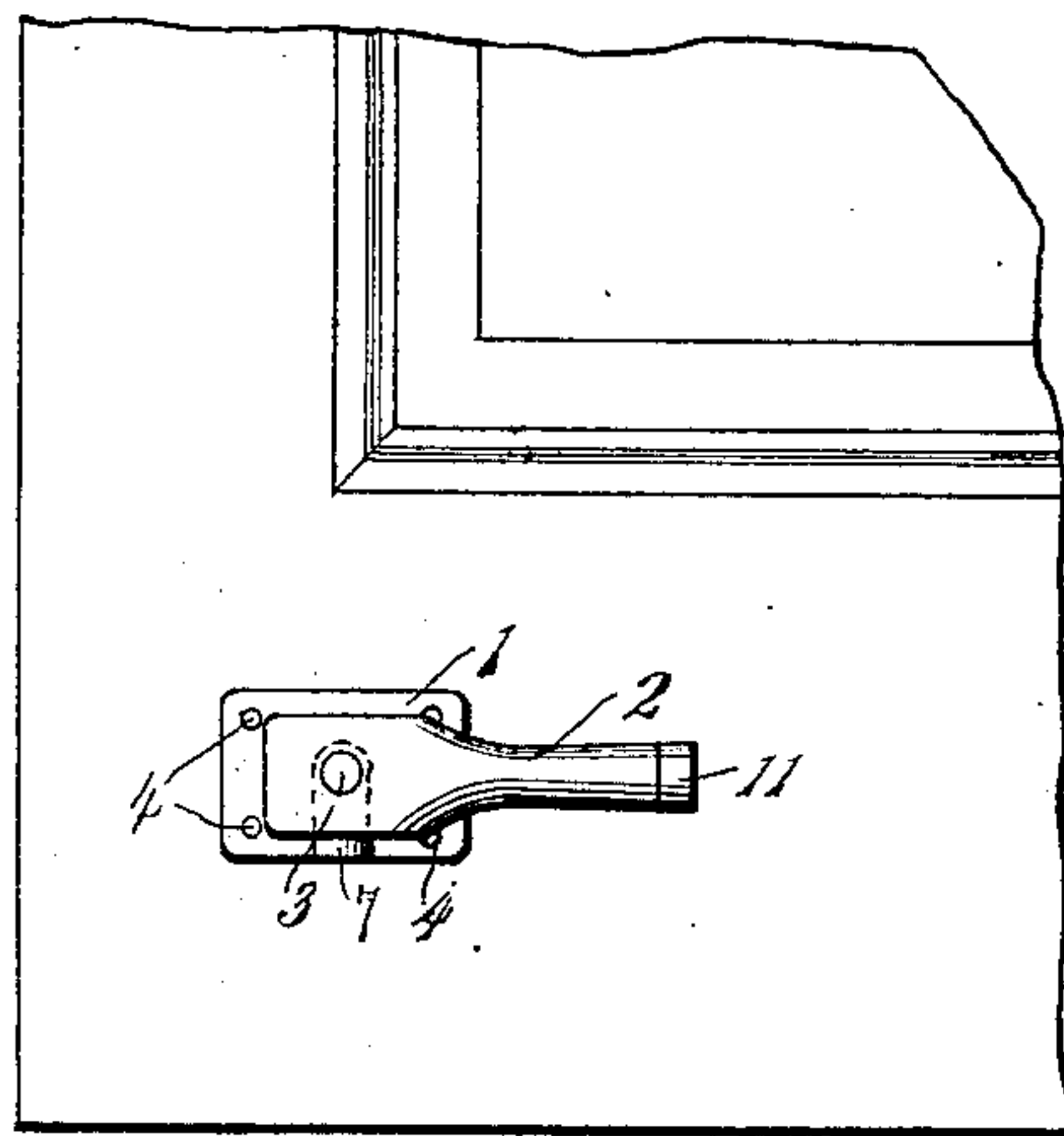
E. C. SCRUGGS.  
DOOR STOP.  
APPLICATION FILED NOV. 2, 1908.

912,326.

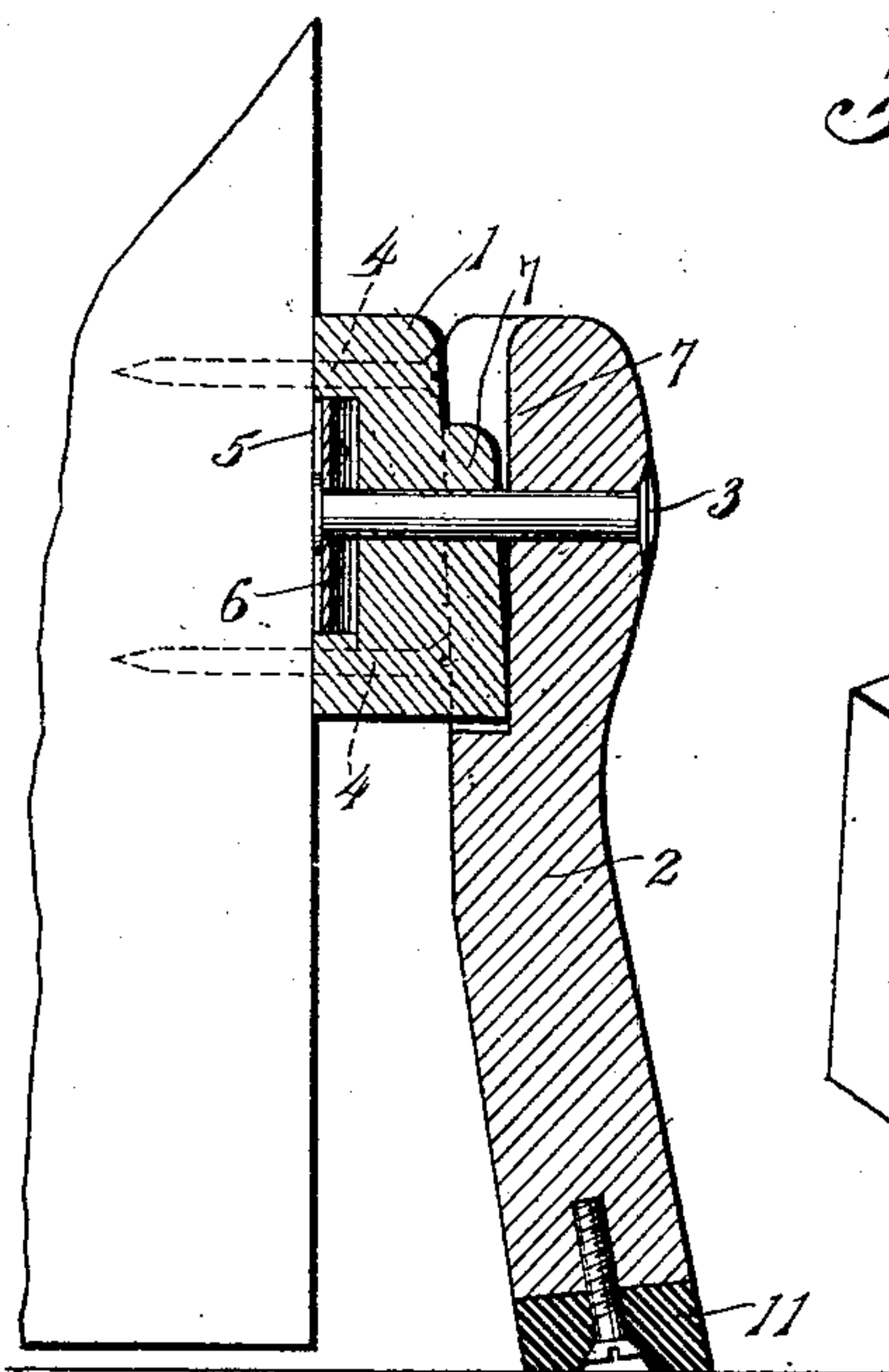
Patented Feb. 16, 1909.



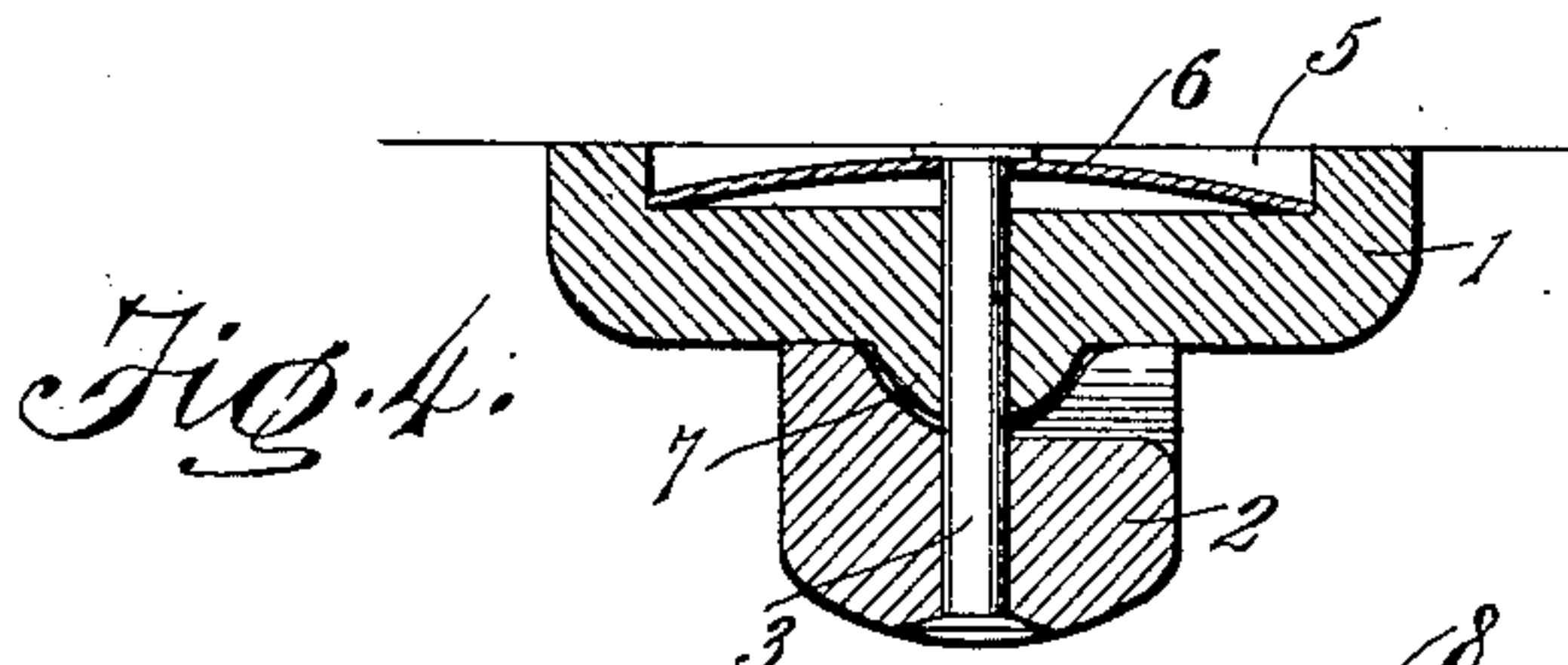
*Fig. 1.*



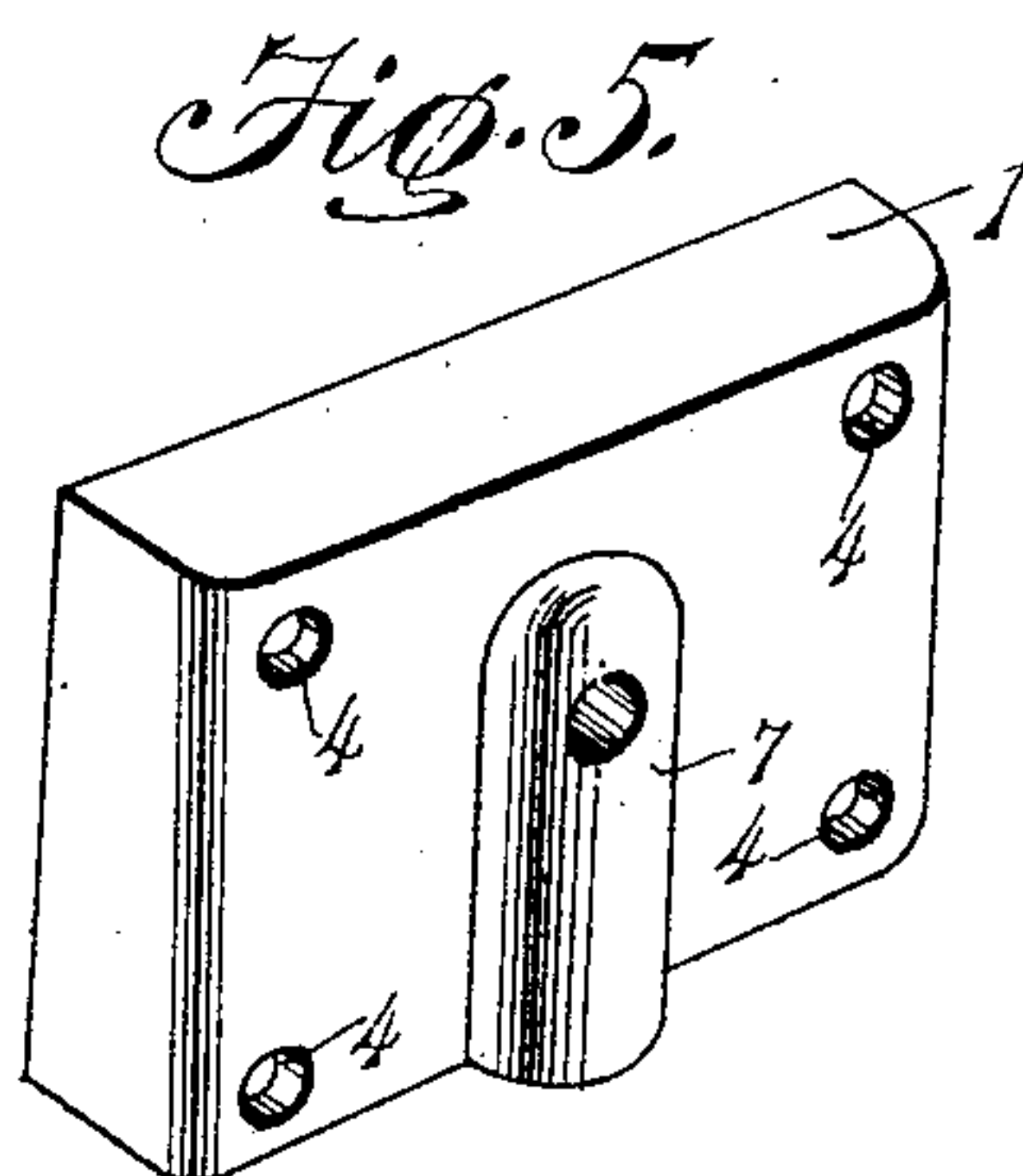
*Fig. 2.*



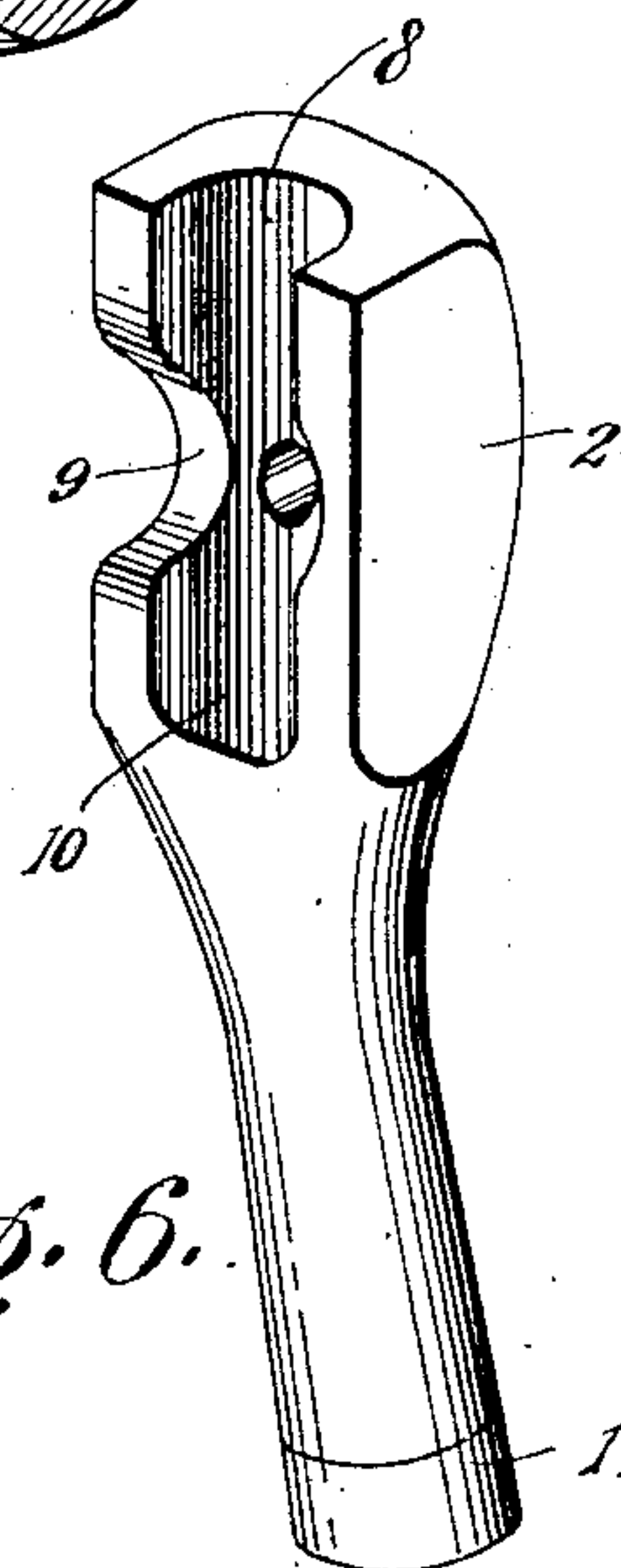
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



*Fig. 6.*

Witnesses  
Rose S. Johnson  
Nina L. Martin

Inventor  
Edward C. Scruggs  
By Watson Coleman  
Attorney



# UNITED STATES PATENT OFFICE.

EDWARD C. SCRUGGS, OF NASHVILLE, TENNESSEE.

## DOOR-STOP.

No. 912,326.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed November 2, 1908. Serial No. 460,753.

*To all whom it may concern:*

Be it known that I, EDWARD C. SCRUGGS, a citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Door-Stops, of which the following is a specification, reference being had to the accompanying drawings.

This invention is an improved door stop or check of that class which is attached to the lower portion of a door and has a pivoted stop arm to engage the floor to hold the door in an open position.

The object of the invention is to provide a simple and practical device of this character which may be produced at a small cost and will be strong and durable in use, and which may be quickly and easily thrown to either an operative or inoperative position and will be held in such position by the tension of a spring.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a portion of a door showing the invention applied thereto; Fig. 2 is a front elevation of the same showing the stop arm swung to its elevated or inoperative position; Fig. 3 is a vertical section through the device showing the stop arm in its operative position; Fig. 4 is a horizontal section taken on the plane indicated by the line 4—4 in Fig. 3; Fig. 5 is a detail perspective of the attaching plate; and Fig. 6 is a detail view showing the inner face of the stop arm.

In the drawings 1 denotes an attaching plate adapted to be secured to one side of a door adjacent to its bottom and to have pivotally mounted thereon a stop arm 2 for engagement with the floor. Said arm has one of its ends engaged with a pivot 3 projecting from the attaching plate so that it can be swung from a depending position to a horizontal position and also to an upwardly projecting vertical position, in any one of which positions it is adapted to be held by the tension of a spring and co-acting devices between its pivoted end and the attaching plate. In the preferred embodiment of the invention illustrated, the attaching plate is of substantially rectangular shape and has

apertures 4 adjacent its corners to receive fastening screws or the like, but it will be understood that said plate may be otherwise secured to the door. In the inner or bottom face of the plate is formed a recess 5 shaped to receive a bowed or curved leaf spring 6 which actuates the pivot 3 in a longitudinal direction. Said pivot is here shown in the form of a rivet which passes through an aperture in the inner end of the arm 2, through a centrally arranged aperture in the attaching plate and also through a centrally arranged aperture in the spring, as clearly shown in Figs. 3 and 4 of the drawings. Its purpose is to draw the pivot inwardly and thereby cause it to press the arm 2 firmly against the front or outer face of the attaching plate but at the same time permit said arm to move outwardly away from the plate. In order to retain the arm in any of its two or more positions to which it may be swung, a lug or projection 7 is formed upon the front face of the attaching plate adjacent to its pivot opening, and angularly arranged recesses or seats 8, 9, 10 are formed in the inner face of the pivoted end of the arm to receive said lug. As illustrated, the seats 8, 9, 10 are radially arranged and disposed in planes at right angles to each other so that when the lug 7 is engaged with the seat 8 the arm 2 extends downwardly to engage the floor, when said lug is engaged with the seat 9 the arm 2 is in a horizontal position and when said lug is engaged with the seat 10 said arm projects upwardly. While the foregoing is the preferred arrangement of said lug and seats, it will be understood that they may be otherwise arranged within the scope of the invention. The lower or outer end of the arm 2 is preferably disposed at a slight angle with respect to its pivoted end, so that when the arm extends downwardly it will engage the floor a little distance from the bottom of the door and thereby serve as a brace.

The front face of the attaching plate 1 is preferably downwardly and outwardly inclined so that said plate is thicker at its bottom than at its top. The purpose of this inclination of the front face is to throw the outer end of the arm 2 further away from the bottom of the door when said arm is in its lowered or operative position shown in Figs. 1 and 3 and to throw said end of the arm closer to the side of the door when said arm is in its operative horizontal or vertical



position. It will be seen that by reason of the downward inclination of the front face of the attaching plate, the arm will take a greater angle with respect to the vertical plane of the door when said arm is lowered and will swing inwardly toward the door when the arm is raised. The device is thereby rendered more effective as a stop or brace when in an operative position, and less liable to be in the way and to be caught by passing objects when in an inoperative position. When said front face of the attaching plate has sufficient inclination the arm 2 may be straight instead of angular. Said outer end of the arm is preferably supplied with a piece 11 of rubber or other suitable material which will make an effective friction contact with the floor. This rubber piece or pad may be secured in any suitable manner to the stop arm.

Having thus described the invention what is claimed is:

1. A door stop comprising an attaching plate, a stop arm, a pivot uniting the arm to the plate and a spring for actuating said pivot in a longitudinal direction to press the arm against the plate.

2. A door stop comprising an attaching plate, a stop arm, a pivot uniting the arm to the plate, a spring for actuating said pivot in a longitudinal direction to press the arm

against the plate and co-acting means upon the opposing and contacting faces of the arm and plate for retaining said arm in an adjusted position on the plate.

3. A door stop comprising an attaching plate, a stop arm, a pivot uniting the arm to the plate, a spring for actuating said pivot in a longitudinal direction to press the arm against the plate, said arm being formed upon the inner face of its pivoted end with seats and a lug upon the outer face of the attaching plate to enter said seats and retain the arm in an adjusted position.

4. A door stop comprising an attaching plate having its face inclined downwardly and outwardly, and a stop arm movable substantially in the plane of the door and pivoted to said inclined face of the plate, whereby its free end will be thrown out a distance from the bottom of the door when said arm is in a lowered operative position, and will be thrown inwardly toward the door when said arm is in an elevated inoperative position.

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

EDWARD C. <sup>his</sup> X SCRUGGS.  
mark

Witnesses:

W. B. BALLARD,  
T. E. GRANT.