

No. 835,734.

PATENTED NOV. 13, 1906.

S. J. REYNOLDS.

DOOR HANGER.

APPLICATION FILED MAY 1, 1906.

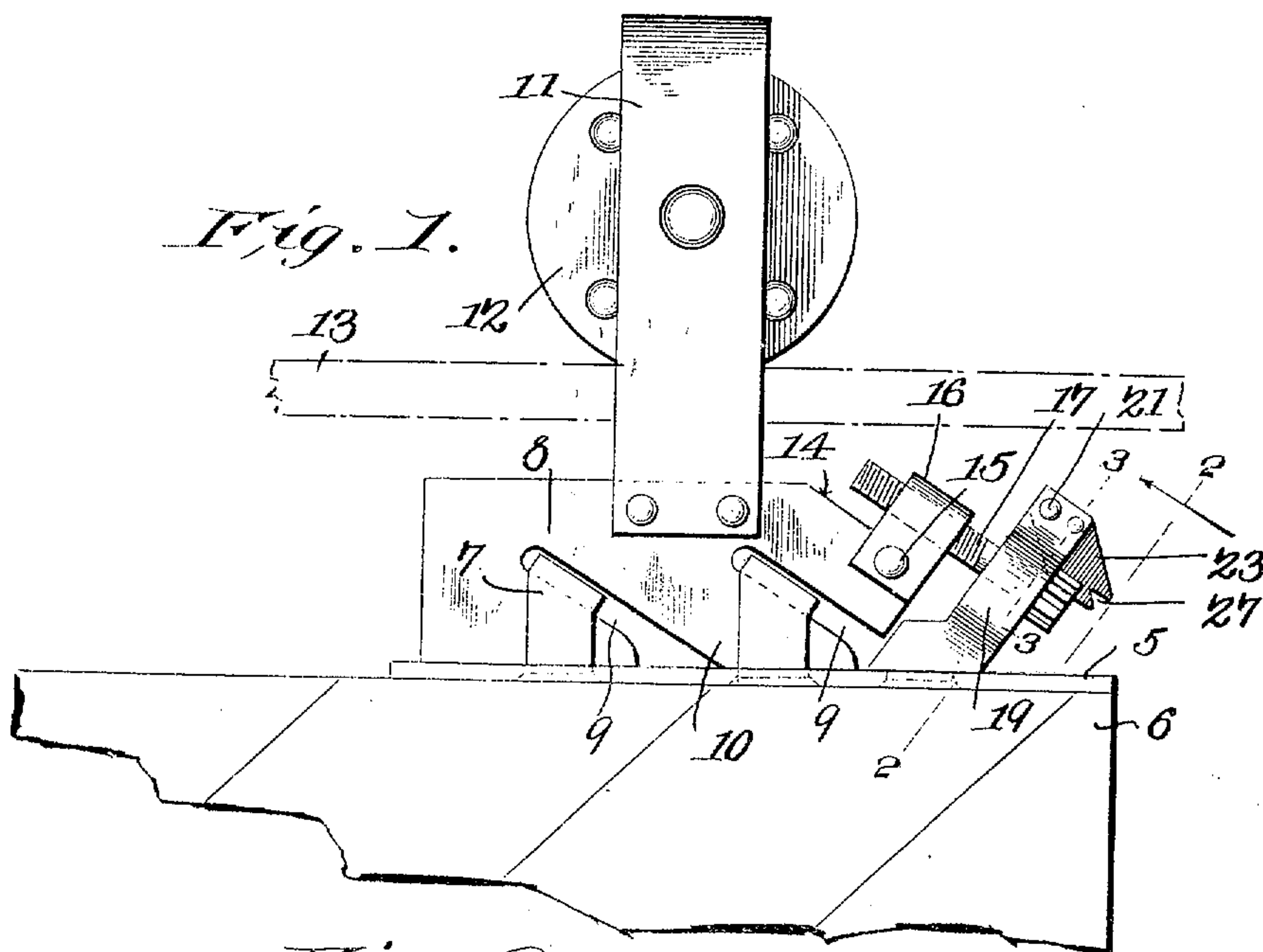


Fig. 2.

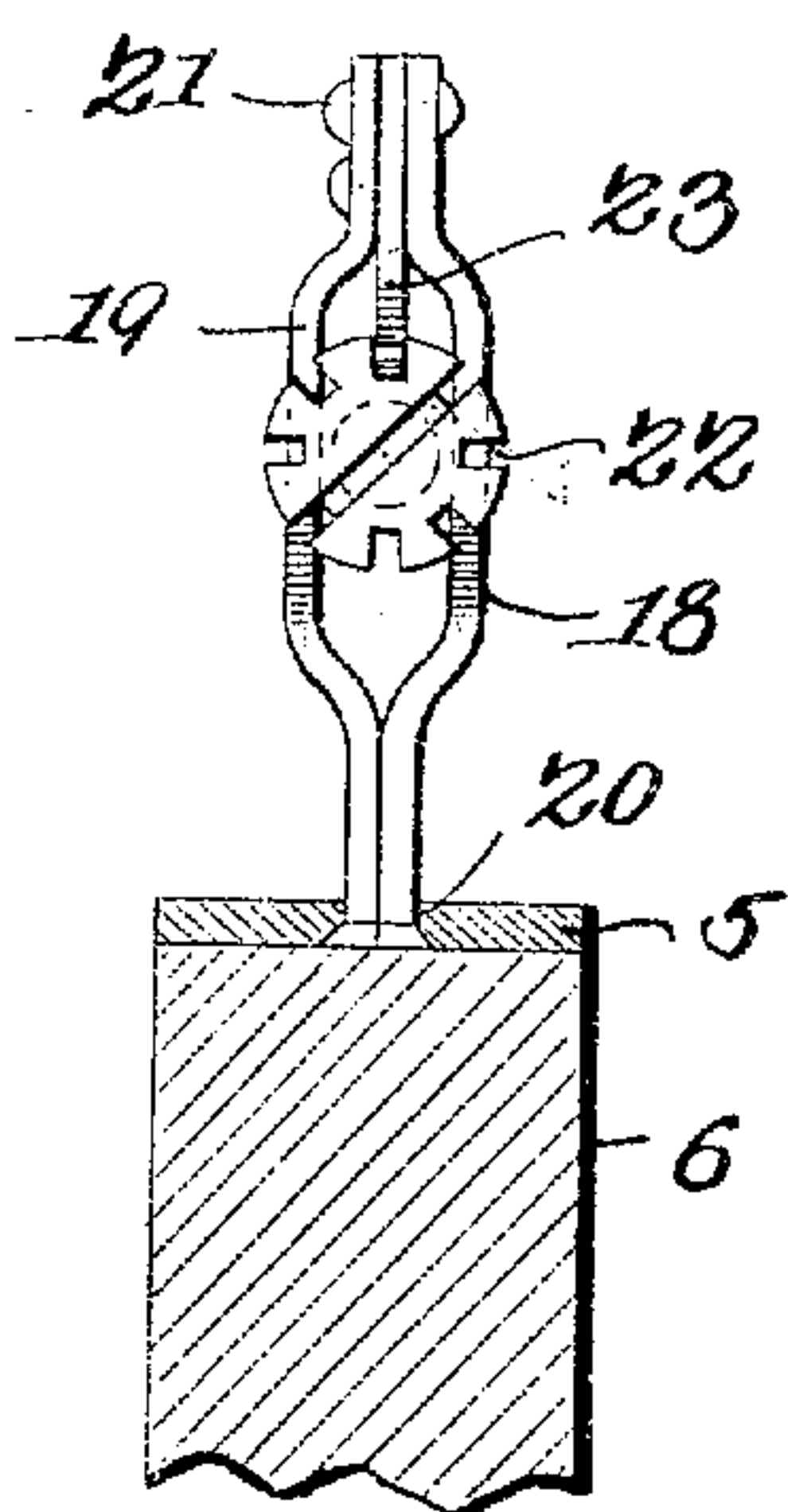


Fig. 3.

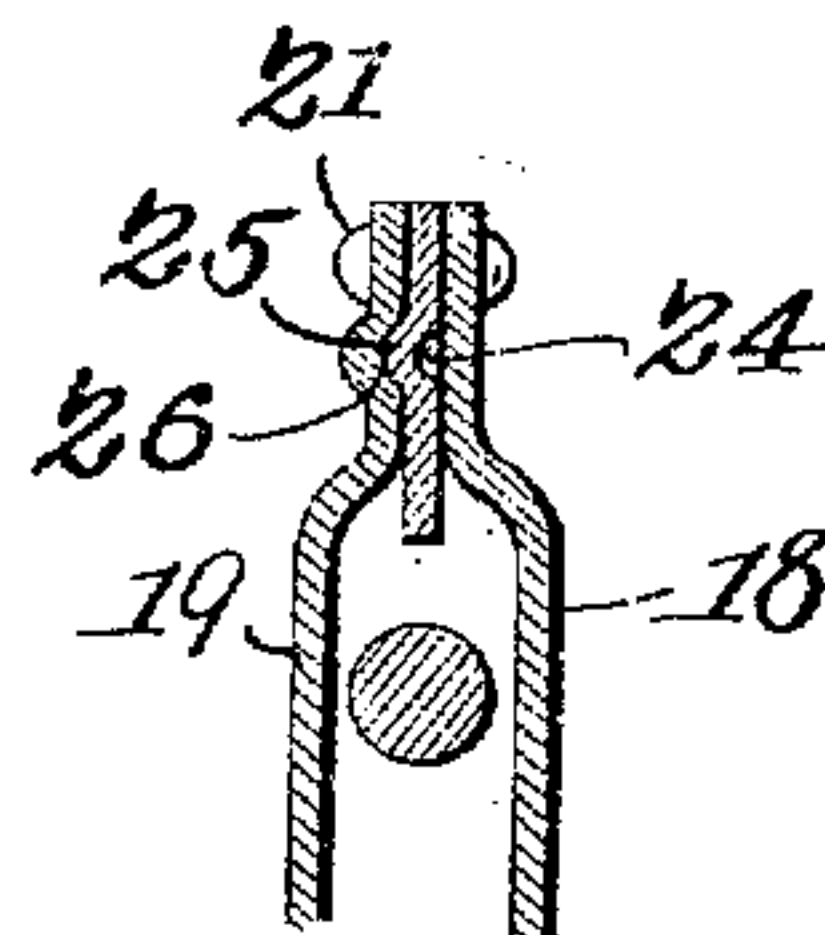


Fig. 4.

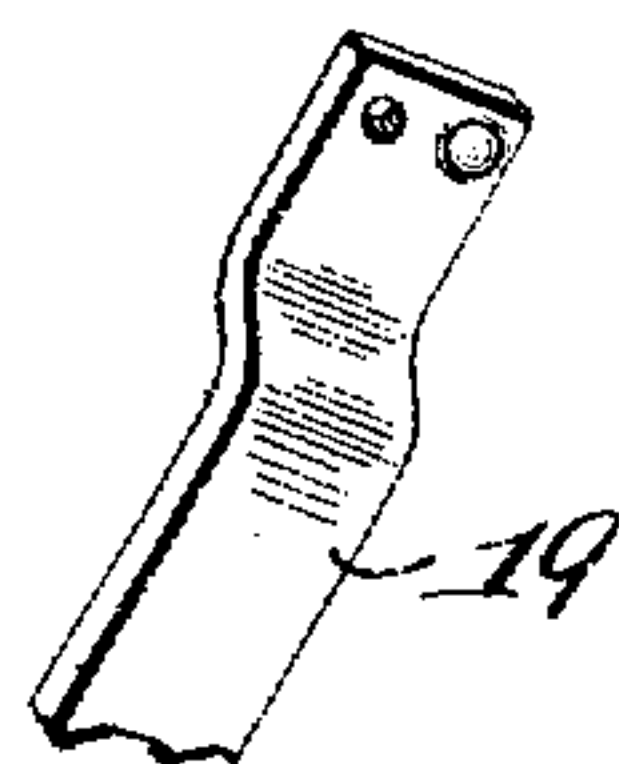
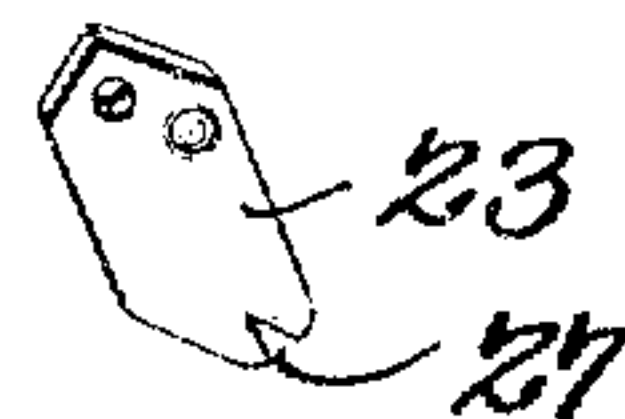


Fig. 5.



WITNESSES:

E. H. Stewart
L. T. McKee

Samuel J. Reynolds, INVENTOR.

By *C. A. Snow & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

SAMUEL J. REYNOLDS, OF PLYMOUTH, PENNSYLVANIA.

DOOR-HANGER.

No. 835,734.

Specification of Letters Patent.

Patented Nov. 13, 1906.

Application filed May 1, 1906. Serial No. 314,691.

To all whom it may concern:

Be it known that I, SAMUEL J. REYNOLDS, a citizen of the United States, residing at Plymouth, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Door-Hanger, of which the following is a specification.

This invention relates to hangers for laterally-movable doors, and has for its object to provide a comparatively simple and inexpensive device of this character by means of which the door may be adjusted vertically with respect to the floor or other support and securely locked in adjusted position.

A further object of the invention is to provide an adjusting-bolt the head of which is formed with a series of radial recesses adapted to receive a pivoted locking-dog for preventing accidental rotation of the bolt.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of a portion of a door, showing a hanger constructed in accordance with my invention in position thereon. Fig. 2 is a vertical sectional view taken on the line 2 2 of Fig. 1. Fig. 3 is a similar view taken on the line 3 3 of Fig. 1. Fig. 4 is a detailed perspective view of one of the plates constituting the bolt-supporting bracket. Fig. 5 is a detail perspective view of the locking-dog detached.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved device comprises an attaching-plate 5, adapted to be secured to the top of a door 6 and provided with spaced vertically-disposed loops 7. Mounted on the attaching member 5 is a relatively movable plate 8, having inclined slots or recesses 9 formed therein, defining lugs 10, adapted to engage the loops 7.

Secured to the upper edge of the plate 8 is a strap or hanger 11, upon which is mounted for rotation a wheel or roller 12, adapted to bear against an overhead track 13. One end of the plate 8 is inclined or beveled at 14, and secured to the inclined end of said plate, as by a rivet or similar fastening device 15, is a sleeve 16, the interior walls of which are threaded for engagement with the

threads on an adjusting-bolt 17. Secured to the plate 5 in advance of the sleeve 16 is a supporting-bracket comprising a pair of plates 18 and 19, the lower ends of which are reduced and pass through an opening 20 in the member 5, the upper ends of said plates or arms being rigidly secured together by a rivet or bolt 21. The intermediate portions of the plates 18 and 19 are spaced apart to form a recess or chamber for the reception of the bolt 17, the latter being provided with an enlarged head, which bears against the outer edges of the plates 18 and 19 and is formed with a series of radial recesses 22, adapted to receive a locking dog or pawl 23. The dog 23 is pivotally mounted for swinging movement between the plates 18 and 19 on the pivot-pin 21 and is provided with a depression or recess 24, defining a locking-lug 25, adapted to engage a recess 26, formed in the adjacent wall of the plate 19, so that when the locking-dog is moved downwardly to operative position in engagement with any one of the locking-recesses 22 the lug 25 will enter the recess 26, and thereby prevent accidental displacement of said locking-dog. The free end of the locking-dog is provided with a V-shaped notch 27, adapted to receive a screw-driver or similar tool for moving the dog to elevated or inoperative position. It will thus be seen that when the dog is moved to operative position the lug 25 will engage the interior wall of the plate 19 and force the same laterally to permit the lug to enter the recess 26, and in which position it will be retained by the spring clamping action of said plates.

In operation when it is desired to adjust the door vertically with respect to the floor or support the screw 17 is rotated until the desired adjustment is effected, after which the locking dog or pawl 23 is swung downwardly on the pivot 21 and forced into engagement with the adjacent radial recess 22, thus locking the door in adjusted position and effectually preventing accidental rotation of the screw. In order to release the dog, it is merely necessary to insert the point of a screw-driver or similar tool in the notch 27 and force said dog upwardly until the end of the dog clears the side walls of the locking-recess, when the screw may be again rotated to effect a further adjustment.

From the foregoing description it will be seen that there is provided an extremely simple, inexpensive, and efficient device admir-

ably adapted for the attainment of the ends in view.

Having thus described the invention, what is claimed is—

5 1. A device of the class described comprising relatively stationary and movable members, a threaded sleeve secured to one of said members, a bracket carried by the adjacent member, a screw-threaded bolt passed
10 through the bracket and engaging the same and the threads on the sleeve and having its head provided with a plurality of radial recesses, and a locking-dog pivotally mounted on the bracket and adapted to engage the re-
15 cesses in the head of the bolt.

2. A device of the class described comprising relatively stationary and movable members, a threaded sleeve secured to one of the members, a bracket carried by the adjacent
20 member and having one arm thereof formed with a depression, a threaded bolt passed through the bracket and engaging the same and the threads on the sleeve, the head of said bolt being provided with a plurality of
25 radial recesses, and a locking-dog pivotally mounted on the bracket and adapted to engage the recesses in the head of the bolt, said dog being provided with a locking-lug adapted to engage the depression in the arm of the
30 bracket when the dog is moved to operative position.

3. A device of the class described comprising relatively stationary and movable members, a threaded sleeve secured to one of the
35 members, a bracket carried by the adjacent member and comprising a pair of plates spaced apart to form an intermediate recess, a pin connecting the upper ends of the plates, a threaded bolt passed through the recess in

the bracket and engaging the bracket and
the threads on the sleeve, the head of the
bolt being formed with a series of radial re-
cesses, and a locking-dog interposed between
the plates and pivotally mounted for swing-
ing movement on said pin for engagement
45 with the recesses in the head of the bolt.

4. A device of the class described comprising relatively stationary and movable members, a threaded sleeve secured to one of the
members, a bracket carried by the adjacent
50 member and comprising a pair of plates the lower ends of which are secured to said member in advance of the threaded sleeve and their opposite ends united by a transverse
pin, the adjacent walls of the plates being
55 spaced apart to form a recess, one of said plates being provided with a depression adjacent the connecting-pin, a threaded bolt passed through the recess in the bracket and
engaging the same and the threads on the
60 sleeve and having a plurality of radial recesses formed in its head, a locking-dog interposed between the upper ends of the plates and pivotally mounted for swinging
movement on the transverse pin for engage-
65 ment with the recesses in the bolt, there being a depression formed in the locking-dog and defining a laterally-extending lug for engagement with the depression in one of the plates of the bracket when the dog is moved
70 to operative position.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

SAMUEL J. REYNOLDS.

Witnesses:

GEORGE H. HARRISON,
HAROLD REYNOLDS.