

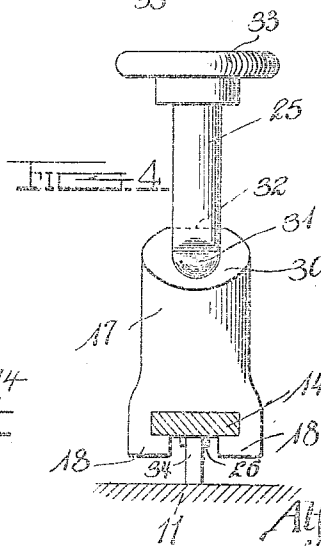
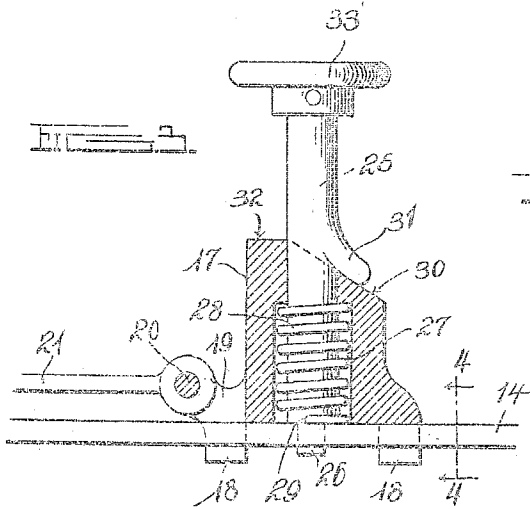
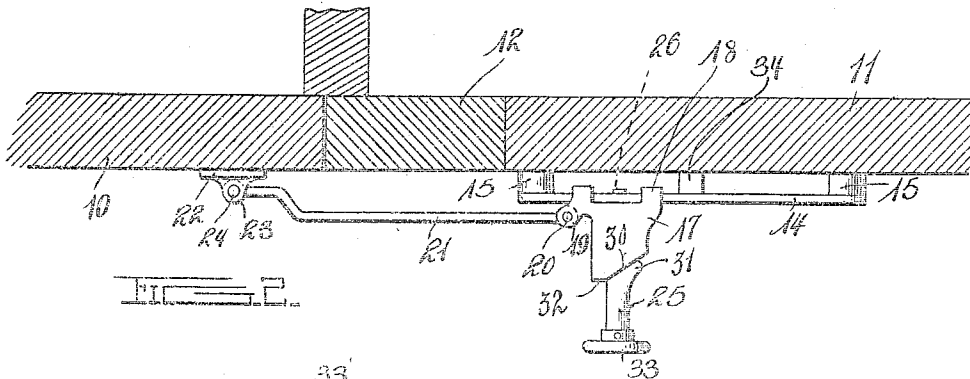
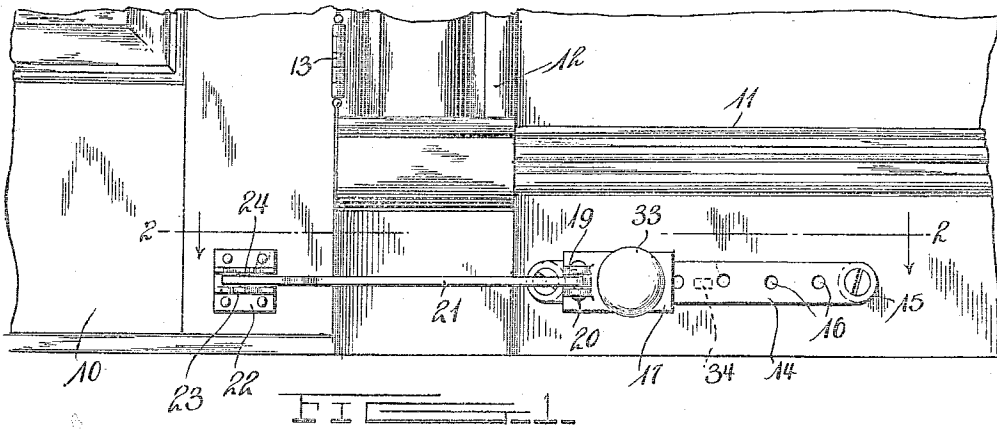
A. G. HANSON.

DOOR HOLDER.

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953,662.

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Witnesses
E. H. Wood
C. H. Woodward

Inventor
Alfred G. Hanson.

By *Charles E. Hanson*
Attorneys

UNITED STATES PATENT OFFICE.

ALFRED G. HANSON, OF WILLMAR, MINNESOTA.

DOOR-HOLDER.

953,662.

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To all whom it may concern:

Be it known that I, ALFRED G. HANSON, a citizen of the United States, residing at Willmar, in the county of Kandiyohi, State of Minnesota, have invented certain new and useful Improvements in Door-Holders; 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.

This invention relates to devices for holding doors, and like structures, and for holding them at any desired point fully open or partly open, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

With this and other objects in view, the invention consists in certain novel features of construction as hereafter shown and described and then specifically pointed out in the claims; and, in the drawings illustrative of the preferred embodiment of the invention, Figure 1 is a side view of a portion of a door and a portion of the adjacent base-board and casing with the improvement applied, Fig. 2 is a plan view with the door and base-board in section on the line 2—2 of Fig. 1, Fig. 3 is an enlarged sectional detail of the adjustable locking member, detached, Fig. 4 is a front elevation with the locking bar in section on the line 4—4 of Fig. 3.

The improved device may be applied without material structural changes to doors of various sizes, and to similar structures, and may be located at any desired point upon the door, and for the purpose of illustration the improved device is shown applied to a conventional door and to the adjacent portion of the base-board, and in the drawings 10 represents a portion of the door, 11 a portion of the base-board and 12 a portion of a door casing, with one of the hinges of the door represented at 13.

The improved device embraces a bar 14 coupled to the wall adjacent to the door, as for instance to the base-board 11, and is spaced therefrom by blocks 15, as shown in Fig. 2. The bar 14 is provided with a plurality of apertures 16 spaced apart throughout its length, as shown in Fig. 1.

Slidably disposed upon the bar 14 is a block or body 17 having guide hooks 18 at one end bearing around the bar 14 and pro-

viding means whereby the block may be slidably disposed upon the bar. The block 17 is provided at one side with spaced ears 19, and pivotally connected by a pin 20 between these ears is a rod 21, the rod being thus swingingly connected at one end to the block. Attached to the door 10 is a base-member 22 having spaced ears 23 through which a pin 24 extends and provides pivotal means for coupling the opposite end of the rod 21 to the door.

The relative location of the parts will be such that when the door is fully closed the block 17 will be located at the end of the bar 14 nearest to the door, and the bar 14 will be of sufficient length to permit the door to swing open to the required extent without causing the block to strike the farthestmost spaced member 15. The block 17 is provided with a longitudinal bore to receive a stem 25 which is reduced at one end as shown at 26 to engage through one of the apertures 16. The interior of the block 17 is counterbored as shown at 27, and surrounding the stem 25 within the counterbored portion is a spring 28 coupled at one end as shown at 29 to the stem and bearing at its other end against the body of the block. By this means the spring exerts its force to maintain the stem 25 in its projected position with the reduced portion 26 yieldably engaging one of the apertures 16. The outer end of the block 17 is provided with an inclined face 30, and the stem 25 is provided with a laterally projecting stud 31 which bears upon the inclined face 30 when the stud is in one position and bears upon the outer flat end 32 of the block when the stud is in another position. The inclined surface 30 merges without any abrupt obstructions into the flat face 32, so that when the stem 25 is rotated by means of its knob 33 the contact of the stud 31 with the inclined face 30 will cause the stem to move outwardly away from the bar 14 and detach the reduced portion 26 from engagement therewith, so that the block 17 is free to be moved longitudinally of the bar, and thus move the door into an open or partly open position.

By providing the bar 14 with a plurality of apertures 16 it will be obvious that the block 17 may be locked to the bar at any desired point within the range of the apertures, and thus hold the door in any desired position, either fully closed, partly open, or fully opened, as may be desired, or at any

intermediate point. By this means the door may be held from movement by the action of the wind or from any other cause, and rigidly retained at any point by simply actuating the stem 25 as above described.

If it is desired to leave the door free to be moved without interference, the stem 25 will be located to rotate the stud 31 upon the flat face 32, and the stem left in this position. The improved device is simple in construction, can be readily adapted to a door at any desired point, and operates effectually for the purposes described.

What is claimed is:—

1. In a device of the class described, a bar provided with a plurality of apertures spaced apart and adapted to be coupled to a wall adjacent to a door, a block slidable upon said bar and having an inclined outer face, a stem slidable through said block and provided with a lateral stud engaging upon the inclined face thereof, said stem engaging in one of the apertures of said bar when in its inward position, and a rod swingingly coupled at one end to said block and adapted

to be swingingly coupled at its other end to a door.

2. In a device of the class described, a bar provided with a plurality of apertures spaced apart and adapted to be coupled to a wall adjacent to a door, a block slidable upon said bar and having an inclined outer face and having projections at the inner end engaging over the edges of said bar, a stem slidable through said block and provided with a lateral stud engaging upon the inclined face thereof, said stem engaging in one of the apertures of said bar when in its inward position, a spring operating to maintain said stem yieldably in engagement with one of the apertures of said bar, and a rod swingingly coupled at one end to said block and adapted to be swingingly coupled at its other end to a door.

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

ALFRED G. HANSON.

Witnesses:

A. F. NORDIER,
IDA A. SANDERSON.