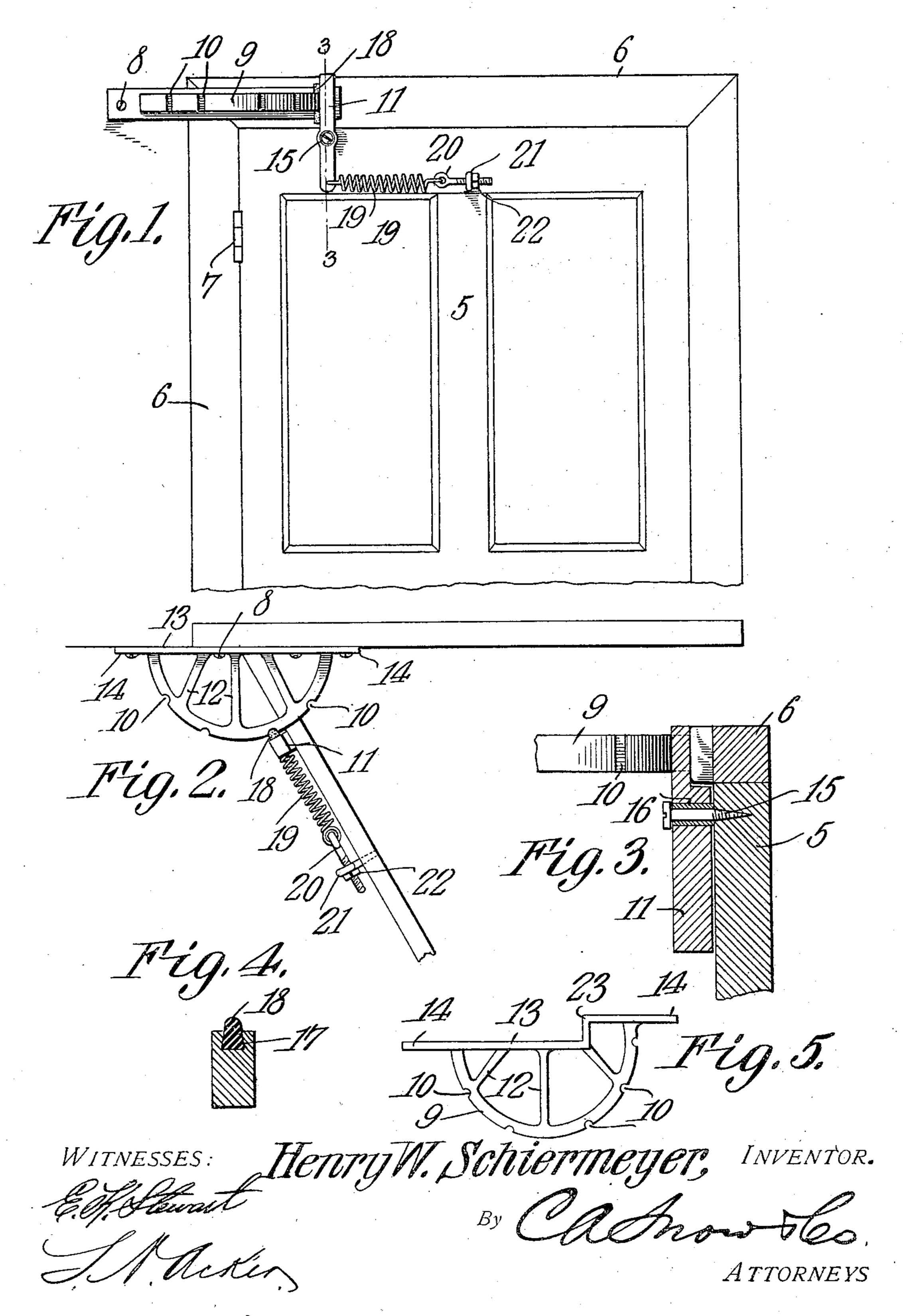
## H. W. SCHIERMEYER. DOOR CHECK.

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## UNITED STATES PATENT OFFICE.

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## DOOR-CHECK.

No. 869,937.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Henry W. Schiermeyer, a citizen of the United States, residing at Beatrice, in the county of Gage and State of Nebraska, have invented 5 new and useful Door-Checks, of which the following is a specification.

This invention relates to door checks or stops and has for its object to provide a comparatively simple and inexpensive device of this character by means of 10 which the door may be held in open or partly open position.

A further object is to provide a segmental rack or locking plate designed for attachment to the door casing and arranged in the path of movement of a spring lock-15 ing member carried by the swinging door or closure, the active face of the rack being disposed concentric with the door hinge and provided with spaced recesses or depressions adapted to receive the locking member.

A still further object of the invention is to generally 20improve this class of devices so as to increase their utility, durability and efficiency as well as to reduce the cost of manufacture.

With these and other objects in view the invention 25 consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions and minor details of construction may be resorted to 30 within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a front elevation of a portion of a door provided with a door check constructed in accordance with my invention. Fig. 2 is a top plan view of the same, showing the door held in partially open position. Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a transverse sectional view taken on the line 4-4 of Fig. 1. Fig. 5 is a top plan view illustrating a modified form of 40 locking plate.

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

The improved device is principally designed for use in connection with doors and similar swinging closures 45 and by way of illustration is shown applied to a door of the ordinary construction in which 6 designates the door casing and 5 the door pivotally mounted on the casing in any suitable manner, as by hinges 7.

Arranged above the door and secured to the casing 6 50 by screws or other similar fastening devices 8 is a segmental rack or locking plate 9 the active face of which is preferably disposed concentric with the hinge 7 and provided with a plurality of spaced locking recesses or depressions 10 adapted to receive a locking member 11.

The segmental rack 9 is preferably reinforced and strengthened by the provision of one or more braces or

spokes 12 which extend between the segmental plate 9 and flat base 13, the latter being preferably extended beyond the segmental plate 9 to form extensions or abutments 14 for engagement with the adjacent end of 60 the locking member 11 when the door is in open or closed position.

The locking member 11 is pivotally mounted on a pin or screw 15 which extends through a sleeve or bushing 16 seated in the locking member and is secured to 65 the face of the door, as shown. The upper end of the locking member 11 is provided with a dove-tailed seating recess 17 for the reception of a strip of rubber, felt or other suitable yieldable material 18 which bears against the active face of the rack 9 and is adapted to 70 enter the recesses or depressions 10. The upper end of the locking member 11 is yieldably supported in engagement with the rack 9 by means of a coiled spring 19 one end of which is secured in any suitable manner to the adjacent end of the locking member 11 while the 75 opposite end thereof is fastened to an eye or bolt 20 threaded in an ear or lug 21 secured to the face of the door 5.

Threaded on the end of the pin 20 is a nut 22 by means of which the pin may be adjusted transversely 80 of the door thereby to vary the tension of the spring and consequently regulate the pressure on the segmental plate 9.

When it is desired to lock the door in open or partially open position the door is swung laterally to the 85 desired adjustment and in which position the spring 19 will tilt the locking member 11 so as to cause the packing strip 18 to enter the adjacent locking notch or depression 10 and thus hold the door at said adjustment.

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In order to support the door at a different adjustment it is merely necessary to exert a slight lateral pressure on the door in either direction which causes the packing strip to become disengaged from the adjacent locking recess and in which position the locking 95 member is free to slide over the active face of the plate until a further adjustment is effected when the spring will again cause the locking member to enter the adjacent recess and hold the door in position.

Attention is called to the fact that the abutments or 100 extensions 14 of the segmental plate 9 will engage the active end of the locking member when the door is moved to open or closed position and thus prevent the locking member from scratching, marring or otherwise injuring the casing by coming in direct contact therein. 105

By having the segmental plate disposed above the door and arranged concentric with the hinges thereof the locking member 11 will travel over the face of the segmental rack without danger of binding while the bushing or sleeve 16 serves as a bearing collar and thus 110 prevents the pin 15 from coming in contact with the locking member.

In Fig. 5 of the drawings there is illustrated a modified form of the invention in which the segmental rack or plate is formed with a lateral off-set 23 defining a recess for the reception of the molding when the door stop is used in connection with doors having ornamental casings or door frames.

It will thus be seen that there is provided an extremely simple and inexpensive door check by means of which the door may be held at any desired position without the employment of chairs or similar devices and without danger of tearing or otherwise injuring the carpet.

Having thus described the invention what is claimed

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1. The combination with a casing having a door hinged thereto, of a segmental rack secured to the door casing and disposed concentric with the door hinge, said rack having its active face provided with spaced locking recesses, a locking member pivotally mounted on the door and adapted to engage the locking recesses, a spring having one end thereof secured to the adjacent end of the locking member and its opposite end connected with the door for yieldably supporting the locking member in en-

sion of the spring.

2. The combination with door-casing having a door hinged thereto, of a segmental rack secured to the door-

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gagement with the rack, and means for adjusting the ten-

casing above the door and arranged concentric with the door hinge, said rack having its active face provided with spaced locking recesses, a locking member pivotally mounted on the door and having one end thereof provided with a packing strip adapted to enter the locking recesses for holding the door in adjusted position, a lug secured to the door, a threaded pin carried by the lug, a spring interposed between the pin and one end of the locking member, and a clamping nut engaging the threads on the pin for adjusting the tension of the spring.

3. The combination with a door-casing having a door hinged thereto, of a segmental plate secured to the door casing and arranged concentric with the door-hinge, said plate being provided with spaced locking recesses, a locking member pivotally mounted on the door-casing, a bearing sleeve carried by the locking member, a pin extending through the bearing sleeve for attachment to the door and forming the pivotal axis of the locking member, a threaded lug secured to the door, a pin threaded in said lug, and a spring one end of which is secured to the pin and the opposite end thereof to the adjacent end of the locking member for yieldably supporting said locking member in engagement with the rack.

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

HENRY W. SCHIERMEYER.

Witnesses:

JOHN A. WICHMAN, H. S. BRINKWORTH.