

C. DE G. WOOD.
DOOR CHECK.
APPLICATION FILED DEC. 10, 1908.

932,933.

Patented Aug. 31, 1909.

Fig. 1.

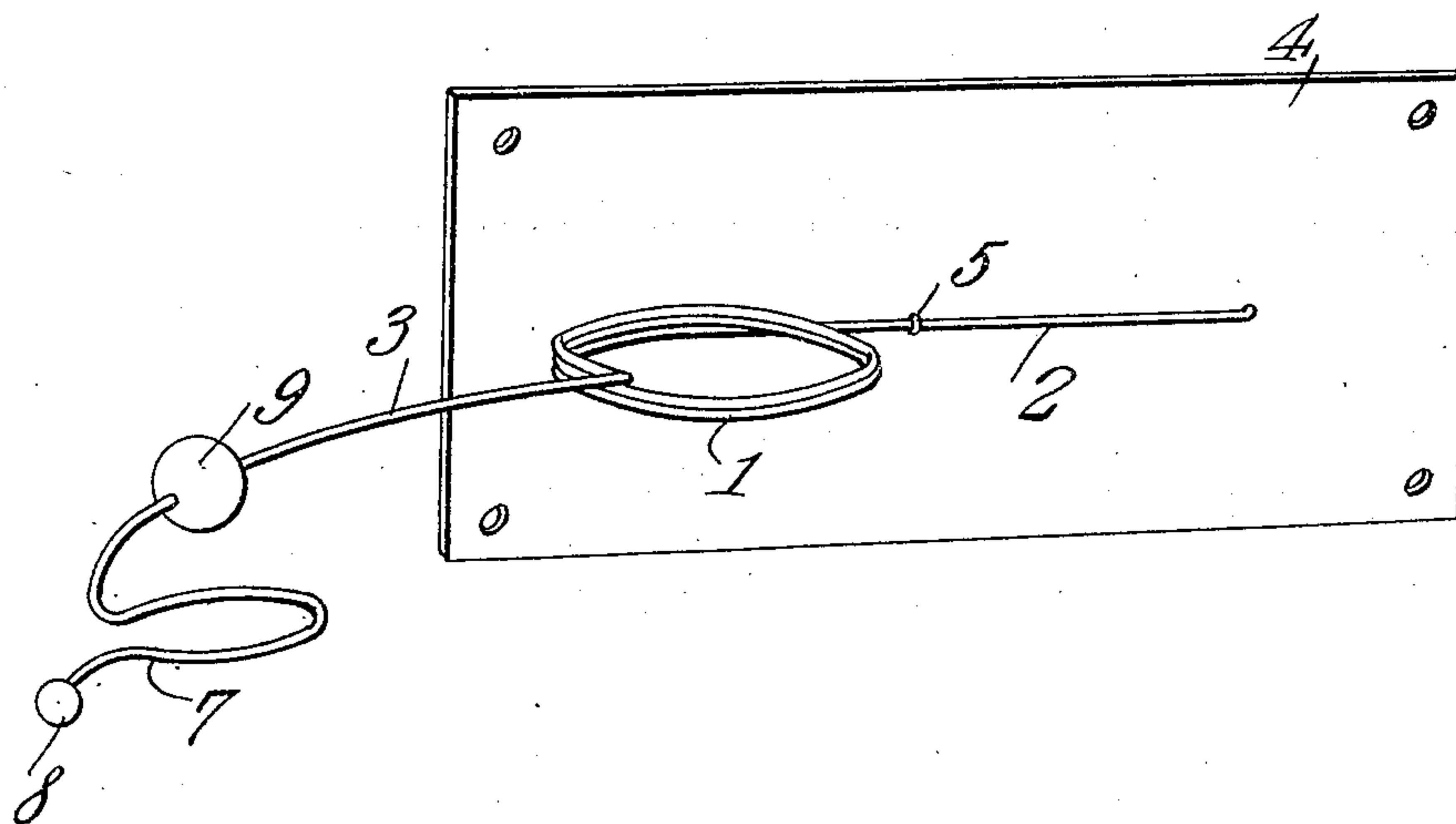
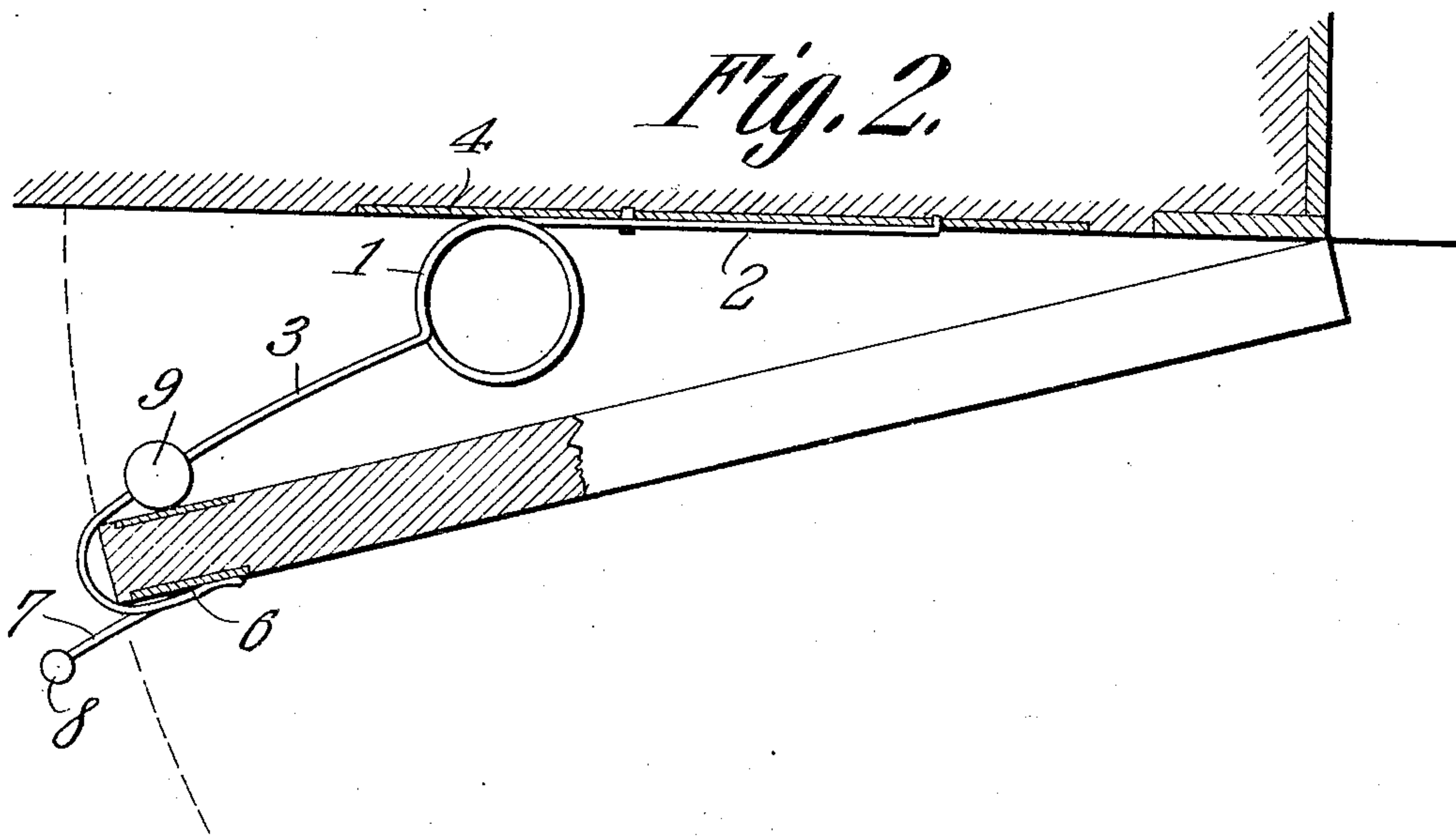


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

CARLOS DE GUSMAN WOOD, OF KENTS STORE, VIRGINIA, ASSIGNOR OF ONE-HALF TO
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DOOR-CHECK.

Specification of Letters Patent. Patented Aug. 31, 1909.

932,933.

Application filed December 10, 1908. Serial No. 466,852.

To all whom it may concern:

Be it known that I, CARLOS DE GUSMAN WOOD, a citizen of the United States, residing at Kents Store, in the county of Fluvanna and State of Virginia, have invented a new and useful Door-Check, of which the following is a specification.

This invention relates to improvements in door checks and has for its object the provision of a device of that kind adapted to yieldingly hold a door in open position.

Another object is to provide a device which will automatically operate to catch the door when the latter is swung open beyond a certain point.

A further object is to provide a cushion which is adapted to receive the impact of the door and prevent defacement of the same by the check.

With these and other objects in view, as will more fully hereinafter appear, the present invention consists in certain novel details of construction and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and more particularly pointed out in the appended claims, it being understood that various changes in the form, proportion, size and minor details of the device may be made without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings forming a part of this specification:—Figure 1 is a perspective view of the device. Fig. 2 is a plan view of the same showing the position of the parts when a door is being held open.

Similar numerals of reference are employed to designate corresponding parts throughout.

In carrying out the invention I provide a base plate which is adapted to be secured to the wall, wainscot, or base board in such position that it will be disposed behind the door when the latter is open. The base plate forms a support for the check proper. The latter is so constructed that one of its arms or members will extend at an obtuse angle to the base plate and in position to engage the vertical edge of a door when the latter is swung open. A suitable cushion is disposed between the terminal of the engaging arm and the base plate in position to receive the impact of the door after the latter

has passed the retaining portion of the engaging member.

In forming the check a suitable piece of wire or the like is employed, an intermediate portion of which is coiled upon itself, as shown at 1. Any number of coils may be employed according to the degree of resiliency required of the device, and in forming the coils the opposite ends of the wire are brought to positions approximately diametrically opposite each other on the opposite faces of the coiled portion 1. What will subsequently be termed the attaching member 2 is formed by extending one of the end portions tangentially to the coil, while the opposite end portion, or engaging member 3 is curved upon the coil to a point adjacent the middle of the latter, where it is bent abruptly outward so as to be perpendicular to the coil. The attaching member 2 terminates in an angular extension which enters a suitable seat formed in the face of the base plate 4. The latter is preferably rectangular in shape and of metal, being provided with suitable openings for the reception of screws or the like by means of which it may be secured to the wall or base board, as before stated. That portion of the attaching member between its outer terminal and the coil is additionally secured to the face of the base plate by means of a suitable eye or staple 5. Thus it will be seen when the attaching member has been secured in place, as described, the coil will be perpendicular to the face of the base plate, and the engaging member will lie at an obtuse angle to the latter and perpendicular to the coil. The outer terminal of the engaging member 3 is curved outwardly and rearwardly so as to form a hook 6. The space between the hook portion 6 and body of the engaging member is designed to be slightly greater than the thickness of the ordinary door. The metal at the terminal of the hook portion 6 is rebent so as to be substantially parallel with the hook and constitutes what will subsequently be termed a releasing lever 7, the terminal of which projects beyond the base of the hook and is surmounted by a suitable knob 8.

In the use of the device it is designed that the terminal of the hook portion 6 will be so disposed that the vertical edge of the door will, after it has moved beyond a certain

point, bear against the said hook portion 6. This it will continue to do, forcing the latter and the body portion 3 backward against the resiliency of the coil 1 until the terminal of the hook, owing to its arc of movement, will move beyond the arc the door swings in and the resiliency of the coil 1, in restoring the arm to its original position, will move the door slightly outward and cause its outer vertical side to enter the socket between the hook 6 and body portion 3. During this movement and also in the movement whereby the door is engaged, the engaging arm is prevented from mutilating the door by the spherical cushion member 9. The latter encircles the body portion of the engaging member 3 at a point adjacent its outer terminal, and in addition to providing a buffer for the door, serves as a means for preventing danger to the wall when the door is swung open forcibly.

From the foregoing it can be seen that I have provided a device which is comparatively simple in structure, embodying few parts and these so disposed that the danger of the same becoming deranged is reduced to a minimum.

What is claimed is:—

1. A door check comprising a check bar having a spring coil, a door engaging hook at one end of said check bar, and a cushioning member disposed between said hook and coil.

2. A door check comprising an attaching member and an engaging member having their inner terminals connected by a coil, and a cushioning member on the said engag-

ing member disposed between its outer terminal and said coil.

3. A door check comprising an engaging member having an oppositely extending curvature on one end constituting a spring hook adapted to receive and embrace the vertical edge of a door when in open position, an attaching member, a coil connecting the inner terminals of said members, and a cushion encircling said engaging member disposed between its outer terminal and said coil.

4. In a door check, the combination of a base plate, an attaching member secured thereto, a yieldably supported engaging member disposed at an obtuse angle to the attaching member, and adapted to receive and embrace the vertical edge of a door when in open position and a coil connecting the inner terminals of the members.

5. In a door check the combination of a base plate, an attaching member secured thereto, an engaging member provided on its outer end with an oppositely extending door engaging hook adapted to receive and embrace the vertical edge of a door when in open position, said hook terminating in an extension forming a releasing arm, and a coil connecting the inner terminals of the attaching and engaging members.

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

CARLOS DE GUSMAN WOOD.

Witnesses:

R. W. WHE,

J. B. SWICKER.