

No. 894,115.

PATENTED JULY 21, 1908.

F. M. CASE.
DOOR CHECK OR CATCH.
APPLICATION FILED JUNE 24, 1907.

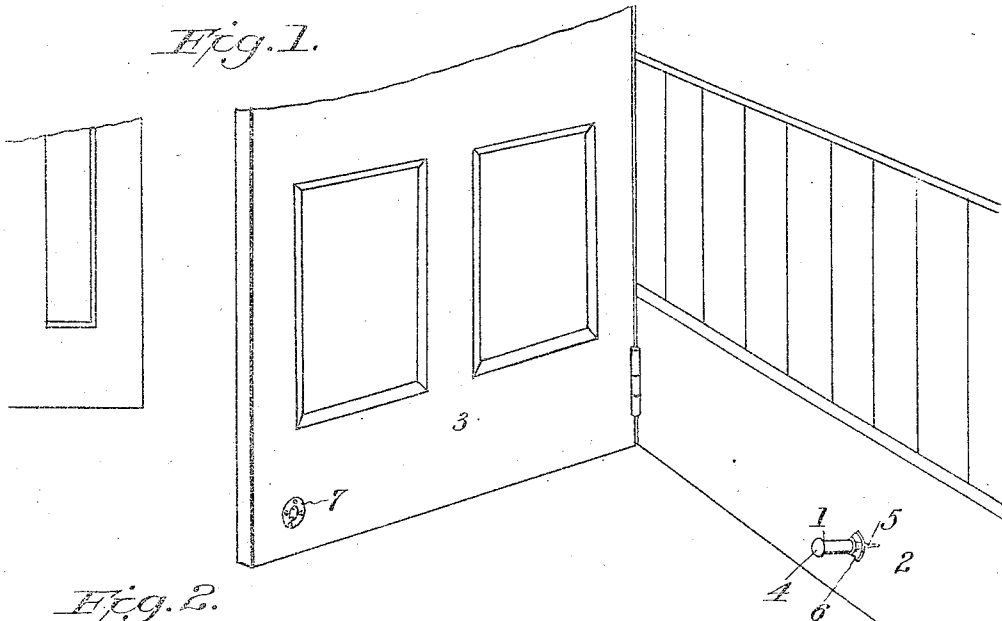


Fig. 2.

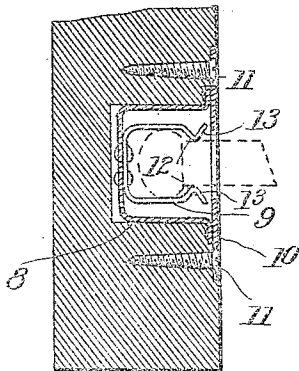


Fig. 3.

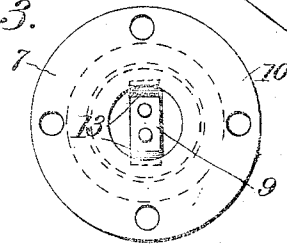


Fig. 5.

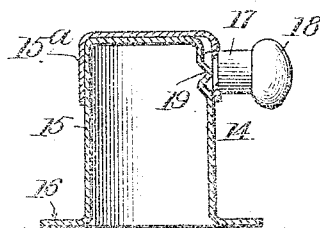
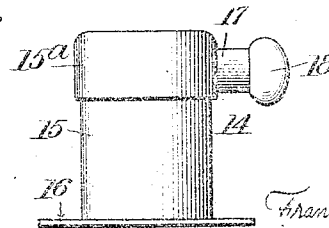


Fig. 4.



Witnesses

B. H. Walker.
F. J. Veilmeyer.

Inventor

Francis M. Case

By

Edson Bros

Attorneys

UNITED STATES PATENT OFFICE.

FRANCIS M. CASE, OF ASHTABULA, OHIO.

DOOR CHECK OR CATCH.

No. 894,115.

Specification of Letters Patent.

Patented July 21, 1908.

Application filed June 24, 1907. Serial No. 380,560.

To all whom it may concern:

Be it known that I, FRANCIS M. CASE, a citizen of the United States, residing at Ashtabula, in the county of Ashtabula and State of Ohio, have invented certain new and useful Improvements in Door Checks or Catches; 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.

My invention relates to door checks or catches for holding doors open.

It has for its object to provide a device of this nature which is simple in construction, cheap of manufacture and neat in appearance.

The invention consists in the features of construction and combinations of parts hereinafter described and specified in the claims.

In the accompanying drawing, illustrating the preferred embodiments of my invention: Figure 1 is a perspective view of the device applied. Fig. 2 is a sectional view of the socket member fastened to the door showing the head of the pin member secured to the base-board in engagement therewith. Fig. 3 is a plan view of said socket member. Fig. 4 is an elevation of a floor plate which may be used in place of the pin-member, and Fig. 5 is a sectional view thereof.

Referring more particularly to the drawing, 1 designates the pin-member which is secured to the base-board 2 behind the door 3. Said pin-member is preferably made entirely of metal and has a rounded enlargement or head 4 at its end. On the other end of said pin-member is a screw 5 for engaging the base-board and around said screw is a bell-shaped flange 6 which serves as a brace. The socket member 7 is also preferably made entirely of metal and comprises a casing 8 for the spring 9, and a flange plate 10. The inner end of said casing is closed while the other opens on the face of the door. Said socket-member is set into the door with the flange-plate flush with the surface thereof and is secured by screws 11 passed through holes in said flange-plate. Because of the cylindrical shape of the casing 8, the opening to receive said socket-member may be easily and quickly made by simply boring into the door with the proper size of bit. The spring 9 is riveted to the base or inner end of the casing 8 and from thence its ends extend

substantially parallel to each other to near the opening in the flange plate. Just within said opening, the ends of said spring are bent sharply inward as at 12 and then outward forming diverging surfaces 13 which serve to guide the head or knob on the end of the pin-member between said inward projections 12 whereby said head is retained in engagement with the socket piece. It will be noted that the flange plate extends partially across the open end of the casing and houses the free extremities of the spring. The shape of the knob, or head on the pin member and also the form of the spring may be varied in order to hold the door more or less securely in accordance with the application of the device.

In Figs. 4 and 5, I have illustrated a pin-member 14 adapted to be secured to the floor instead of to the base board. This device may be used in place of the pin-member 1 where it is found more suitable or desirable. It comprises a cylindrical sheet metal body 15 provided with a flange 16 for securing it to the floor, and a cap 16* placed over the top of said body and to which is riveted the pin 17 having the enlarged head 18. The cap is fastened on the body by having a portion of said body forced into a recess in the riveted end of the pin as at 19.

I claim:

1. The combination, with a socket member comprising a casing closed on all sides and set into a door, one end of said casing opening on the face of said door, a bent spring entirely housed in said casing with its ends bent inward near the opening and thence bent outward and toward said opening forming diverging surfaces, of a fixed pin having an enlarged head adapted to be inserted through the open end of said casing, passed between said diverging ends of said spring and retained in said casing by said spring.

2. The combination, with a socket member comprising a casing set into a door and opening on the face thereof, a bent spring entirely housed in said casing with its ends bent inward near the opening and thence bent outward and toward said opening forming diverging surfaces, and a flange plate secured to the door over said opening and having a perforation communicating therewith, said perforation being smaller than the size of the casing whereby said plate, covers the extremities of the diverging ends of the spring, of a fixed pin having an enlarged head adapted

to be inserted through the perforation in said plate, passed between the diverging ends of said spring and retained in said casing by said spring.

3. The combination, with a pin member, adapted to be secured to the floor and comprising a body of sheet metal, a sheet metal cap, and a pin riveted to said cap and having an enlarged head, said cap being secured
10 on said body by having a portion of said body forced into a socket in the riveted

end of said pin, of a socket member adapted to be fastened to a door and having means to engage and retain the head of said pin therein.

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

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FRANCIS M. CASE.

Witnesses:

W. H. CASTLE,
C. W. PRATT.