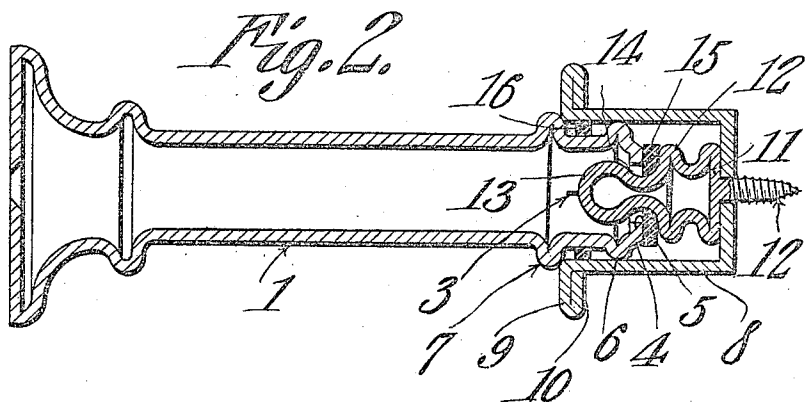
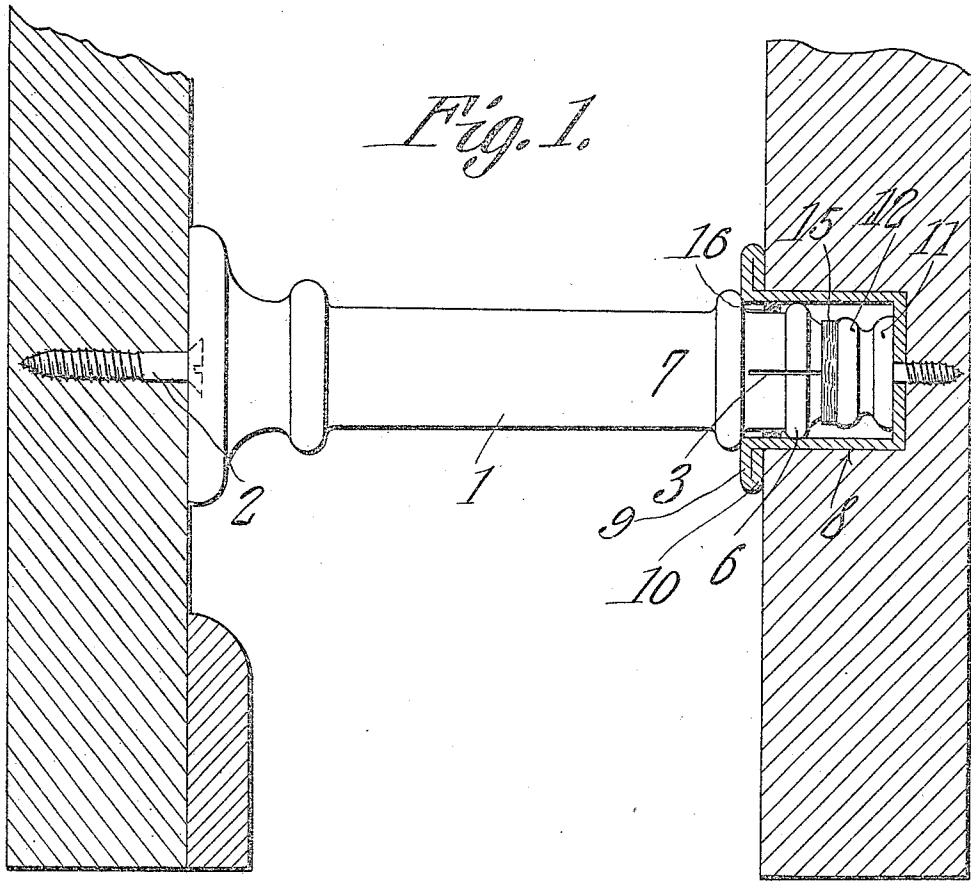


O. E. HENDRICKS.
DOOR CHECK AND HOLDER.
APPLICATION FILED DEC. 20, 1909.

951,817.

Patented Mar. 15, 1910.



Witnesses

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UNITED STATES PATENT OFFICE.

OSCAR E. HENDRICKS, OF OTTUMWA, IOWA.

DOOR CHECK AND HOLDER.

951,817.

Specification of Letters Patent.

Patented Mar. 15, 1910.

Application filed December 20, 1909. Serial No. 534,025.

To all whom it may concern:

Be it known that I, OSCAR E. HENDRICKS, a citizen of the United States, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented a new and useful Door Check and Holder, of which the following is a specification.

This invention has relation to door checks and holders and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide a simple, ornamental and effective device for checking the swinging movement of a door or similar structure and for holding the same in an open position when such is desired.

With the above object in view, the structure includes a tubular post adapted to be attached to a wash board or other fixed support and having an outer end portion of peculiar configuration. A socket member is provided for insertion in the side of the door or swinging structure and carries in its interior a knob of peculiar configuration which serves as a buckle adapted to operate against the end of the said post. Flexible gaskets and washers are provided in combination with the other elements of the structure which serve as means for breaking the force of impact when the parts come together and also for the purpose of deadening the noise incident to such impact.

In the accompanying drawing: Figure 1 is a view of the door check and holder showing a post in side elevation and the receiving socket member in section. Fig. 2 is a vertical sectional view of the members of the door check and holder.

The door check and holder consists of a tubular post 1 which is adapted to be secured to a washboard or other fixed support by means of a screw 2 passing through its face and with its head within the said post. The head of the post 1 is provided with one or more longitudinally disposed slits or incisions 3 and the outer extremity of the said post is slightly conical or pointed as at 4. At the outer end of the conical portion 4 an inturned edge 5 is provided, the object of which will be hereinafter explained. In the vicinity of the outer end of the post 1, an annular ring 6 is formed of relatively small diameter and spaced from the said ring 6 is formed an annular ring 7 of rela-

tively large diameter. The ring 7 is located nearer the base of the post than the ring 6.

A socket member 8 is adapted to be inserted in the face of a door or other swinging structure and is provided with an annular flange 9 having a return bent portion 10. A knob 11 is provided with a screw shank 12 which passes through the inner end of the socket member 8 and is adapted to enter the wood or other material of which the swinging structure is composed and serves as means for securely holding the said socket member in position upon the said swinging structure. The knob 11 is provided with an annular shoulder 12 located at a point approximately midway between its ends and that end of the knob 11 located nearest the flange 9 of the socket 8 is formed into a globular head 13. The material between the head 13 and shoulder 12 is reduced, forming a neck 14. A flexible washer 15 of rubber or similar material surrounds the neck portion 14 of the knob 11 and rests at one side against the annular shoulder 12 of the said knob. A flexible gasket of rubber or similar material is fixed to the inner wall of the socket member 8 in the vicinity of the annular flange 9 and in a vertical plane in advance of or coincident with the vertical plane of the outermost portion of the head 13 of the said knob 11. The diameter of the opening between the opposite edges of the flange 5 formed at the outer end of the post 1 is slightly less than the diameter of the head portion 13 of the knob 11. Consequently as the said head 13 enters the opening bounded by the flange 5, the outer end of the post 1 is slightly expanded or spread at the incision 3 and when the flange 5 passes to a plane which traverses the reduced neck portion 14 of the knob 11 by inherent resiliency, the opposite side portions of the post 1 swing toward each other and close slightly about the reduced neck portion 14 of the said knob 11. When the swinging structure is swung toward the said post 1, the end of the said post enters the socket member 8 and the head of the knob 11 enters the end of the said post in the manner indicated. As the ring 6 passes by the gasket 16, the said ring comes in contact with the gasket and the force of impact of the approaching parts is reduced and when the ring 6 passes beyond the gasket 16, the said gasket enters the space between the rings

6 and 7 and surrounds the outer portion of the post 1. When the end of the conical portion 4 comes in contact with the washer 15, the socket member 8 is checked against further movement toward the post 1 and the said washer 15 serves as a bumper which also breaks the force of impact of the parts as they are brought together. By reason of the fact that the washer 15 and gasket 16 are made of rubber or other flexible material, the parts may come together and be separated without noise. After the head portion 13 of the knob 11 has been projected into the outer end of the post 1 as above indicated, it will require the exertion of a pull of more or less force upon the door to cause the head portion 13 of the knob 11 to be withdrawn from within the outer end of the said post 1, due to the fact that the flange 5 will have contact frictionally with the side of the said head 13. Thus the structure performs a double function, namely that of a door check and that of a door holder.

The post 1, socket member 8, and knob 11 are preferably made from sheet metal and may have any desired design or configuration and therefore the structure as an entirety may present an ornamental and finished aspect when applied to a swinging structure and wash-board as indicated.

Having described the invention, what I claim as new and desire to secure by Letters Patent is:

1. A door check and holder comprising a post having a hollow end portion, spaced rings formed in the vicinity of the end of said post, the outermost ring being of less diameter than the innermost, a socket member adapted to receive the end of said post, a knob member located in the socket member and adapted to be received by said hollow end portion and having a shoulder portion with an adjacent reduced neck portion and a globular end portion and a flexible gasket

located in the socket member and adapted to be engaged by the outermost ring of said post.

2. A door check and holder comprising a post having a slitted hollow end portion provided with an inturned flange, a socket member for said hollow end portion, a knob located in the socket member and adapted to be received by said hollow end portion and having a shoulder portion with an adjacent reduced neck portion and an approximately globular head portion, the diameter of the said head portion of the knob being slightly greater than the diameter of the opening formed at the opposite sides of the flange between the opposite sides of the flange formed at the extremity of the post and a flexible member mounted upon the reduced neck portion of said knob.

3. A door check and holder comprising a post having a slitted hollow end portion provided upon its exterior with spaced annular rings, the outermost one of which is of less diameter than the innermost and having at its outer extremity an inturned flange, a socket member for said hollow end portion, a flexible gasket located in the socket member, a knob located in the socket member and adapted to be received by said hollow end portion and having a shoulder portion with an adjacent reduced neck portion and an approximately globular head portion, a flexible member mounted upon the reduced neck portion of said knob, the diameter of the head of the knob being slightly greater than the diameter of the space between the opposite walls of the flange formed at the outer end of the post.

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

OSCAR E. HENDRICKS.

Witnesses:

R. W. FUNK,
FREDK. DIMMITT.