(No Model.)

S. H. GIESY.

DOOR CHECK.

No. 377,852. Patented Feb. 14, 1888.

Fig. 1.

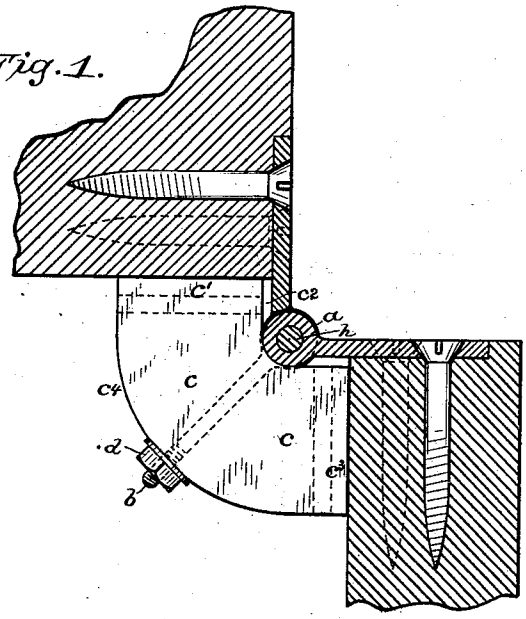


Fig. 2.

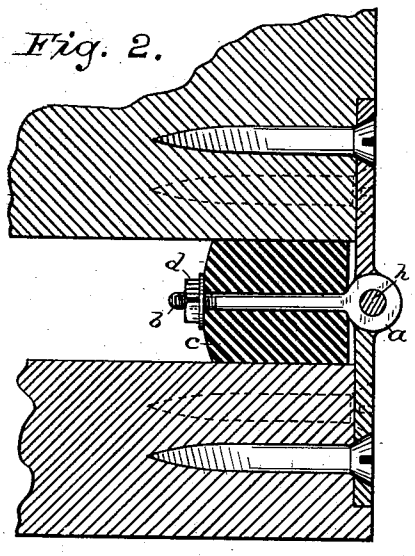
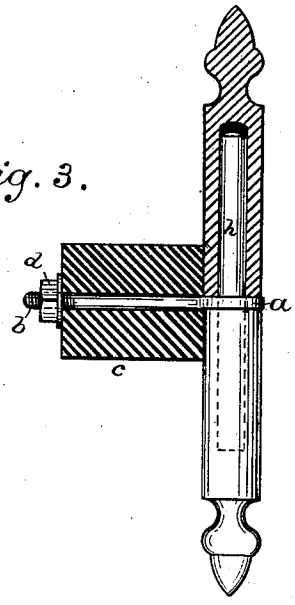


Fig. 3.



WITNESSES

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S. HERBERT GIESY, OF WASHINGTON, DISTRICT OF COLUMBIA.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 377,852, dated February 14, 1888.

Application filed June 16, 1887. Serial No. 241,497. (No model.)

To all whom it may concern:

Be it known that I, S. HERBERT GIESY, of Washington, in the District of Columbia, have invented certain new and useful Improvements in Door-Checks, of which the following is a specification.

The object of my invention is to provide a simple inexpensive door-check to limit the movement of a door when opened and prevent it from striking against an adjacent wall or other contiguous object.

Various devices have heretofore been employed for this purpose; but they have all been more or less complicated, expensive, and inefficient.

My invention is extremely simple and inexpensive, and may readily be applied to any door or similar structure.

In the accompanying drawings, illustrating my invention, Figure 1 is a view showing in section a hinge, door, and door-frame with my improved door-check in position. Fig. 2 is a similar view showing a modified form of my invention, and Fig. 3 is a side view of the same.

A metallic ring, *a*, is provided with a laterally-projecting shank, *b*, to which is attached a buffer-block, *c*, preferably of rubber or other similar slightly-elastic material. The shank *b* is preferably screw-threaded on its outer end, which projects through the block and receives a nut, *d*, which firmly secures the block to the shank.

The block *c* is preferably shaped as shown in Fig. 1, so as to be readily applied to an ordinary door-hinge. As shown in this figure, the block has a straight plain end, c', a rectangular notch, c^2, and a straight side, c^3, at right angles to the end c'. The side c^4 may be shaped as desired, preferably curved, as shown. A block of this shape is suitable to permit a door to open at right angles to the adjacent wall. When it is desired to have the door open wider, as at an angle of forty-five degrees to the adjacent wall, the notch c^2 is made with an angle of one hundred and thirty-five degrees, and the side c^3 should be at an angle of forty-five degrees to the side c'. By thus varying the angle of the notch and the angle of the side c^3 the angle to which the door may be opened relatively to the adjacent wall may be regulated. Of course other ways of adapting the shape of the block to regulate the movement of the door besides those suggested may be employed.

The device is applied to a hinge by slipping the ring *a* over the pintle *h* of a door-hinge between its leaves, so as to allow the shank *b*, carrying the buffer-block *c*, to project away from the hinge between the door and the adjacent wall. The end c' of the block rests against the wall or door-frame, and the socket of the hinge lies in the notch c^2. When the door is opened to the limit of its movement, it abuts against the side c^3 of the block. The ring *a* may be made so thin as not to affect appreciably the hanging of the door, and, being of hard metal, it will stand ordinary wear without material waste. When the ring *a* is placed on a pintle between the leaves of a hinge, it serves as a washer.

When the device is applied to that class of hinges which employ a ring between the leaves, the ring *a* may be made of the same size and thickness as the washer usually employed.

I preferably apply my improved door-check to the upper hinge of a door; but it may be applied to all the hinges, if desired.

I claim as my invention—

1. The combination, substantially as hereinbefore set forth, of the buffer-block, the laterally-projecting shank, and the ring on the outer end of the shank for securing it to a hinge.

2. The combination, substantially as set forth, of a door-hinge, a buffer-block, *c*, having an end, c', adapted to rest against a frame or adjacent wall, a notch, c^2, to form a seat for the hinge socket or sockets, and a side, c^3, at an angle to the end c', against which the door or similar structure abuts, and the shank *b*, carrying the buffer-block and secured to the hinge midway between the leaves thereof.

In testimony whereof I have hereunto subscribed my name.

S. HERBERT GIESY.

Witnesses:
ANDREW PARKER,
LLOYD B. WIGHT.