

(No Model.)

P. G. EMERY.  
DOOR CHECK.

No. 527,385.

Patented Oct. 9, 1894.

Fig. 1.

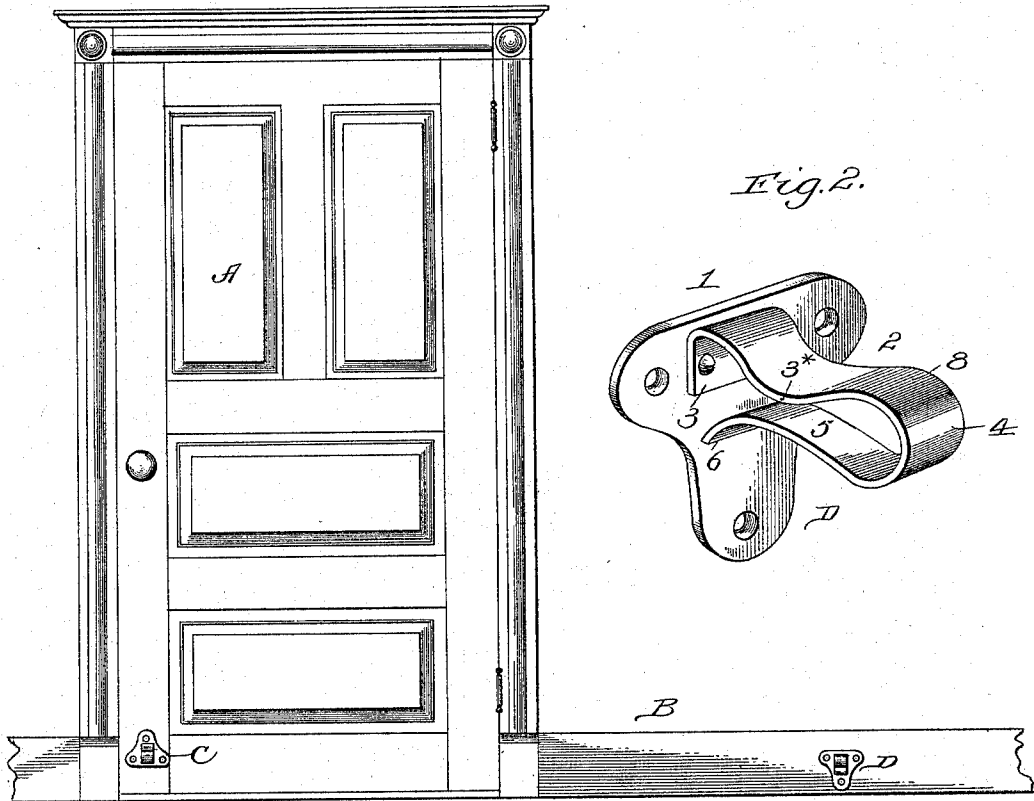


Fig. 2.

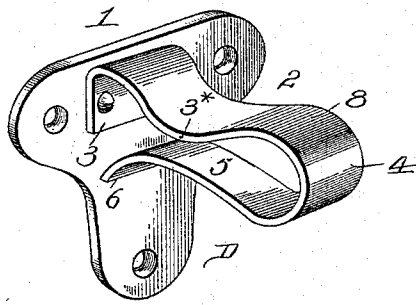
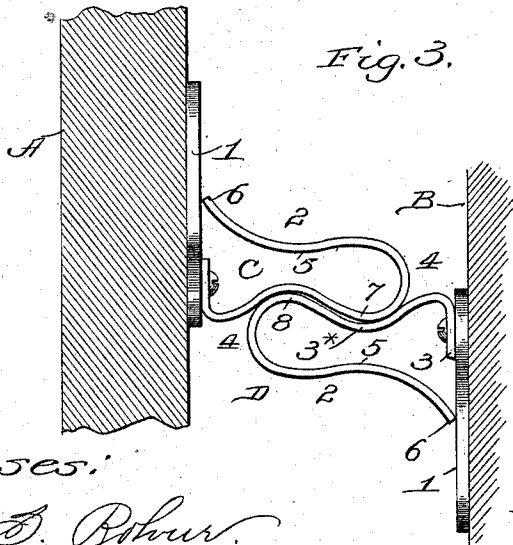


Fig. 3.



Witnesses:

Harry S. Robur.  
O. R. Nathan.

Inventor:

Plato C. Emery,

By *[Signature]*  
Attys.

# UNITED STATES PATENT OFFICE.

PLATO G. EMERY, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE ADAMS & WESTLAKE COMPANY, OF ILLINOIS.

## DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 527,385, dated October 9, 1894.

Application filed August 3, 1894. Serial No. 519,347. (No model.)

*To all whom it may concern:*

Be it known that I, PLATO G. EMERY, of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Door or Shutter Holders, of which the following is a specification.

This invention relates to a spring check or holder adapted for use in maintaining in open position a door, shutter or the like when swung open, and which is applicable for use with car doors, or doors generally, or with shutters and the like.

In the accompanying drawings, Figure 1 is an elevation showing the invention applied to a door and a washboard, the door being closed. Fig. 2 is a perspective view, on enlarged scale, of one half of the device detached from its support. Fig. 3 is a view, upon similar scale, showing the invention used for holding a door in open position.

Similar letters and figures of reference indicate similar parts in the respective figures.

A represents a door or shutter, and B a wall, washboard or other stationary object.

C shows the part of the spring holder which is secured to the door, shutter, or the like, and D the part to be fastened to the wall, washboard, floor post, or other fixed object. The parts C and D are of duplicate or similar construction, each consisting of a bracket plate 1 and a curved spring 2, the latter being made of flat steel, the inner end of the spring being turned, as at 3, so as to be parallel with the bracket plate 1, and is riveted or otherwise secured to said plate as shown.

The curved spring 2 is shaped substantially as shown in the drawings, that is to say it is given an inward bend at 3\*, turned over upon itself at 4, again deflected inwardly at 5, and caused to terminate in a free end 6, which curves outwardly and is made to rest at or near the outer face of the bracket plate 1.

The part D of the spring holder is, as stated, a duplicate of, or practically the same shape with, that of C; and, when arranged for use, the parts C and D are attached to a door or shutter and a stationary object, respectively, as seen in Fig. 1, the part D being placed in reversed position with reference to

that occupied by the part C, and in a lower plane than that in which the latter stands, so that when the door or shutter is fully swung back or open, the curved surfaces 7 and 8 of the respective springs 1 and 2, shall ride upon each other, the resiliency of the springs, by reason of the freedom of their inner ends, allowing the two parts of the device to finally fit within each other, as shown in Fig. 3, thus securely holding open the door or shutter. In closing the door or shutter, it will be understood that the same surfaces 7 and 8 will be caused to ride upon each other, the elasticity of the springs allowing them to become separated as will be apparent.

It is obvious that, instead of using a bracket plate separate from the spring, and attaching the plate and spring together by rivets, or otherwise, the bracket plate and spring may be integral, although I prefer the construction herein shown.

The whole device may be bronzed, brazed, nickelplated or otherwise ornamented.

This device is at once strong, simple and inexpensive in construction, and noiseless in action, and accomplishes the end desired in an effective and satisfactory manner. The parts may be made of any suitable metal, so that the spring portions thereof shall have the requisite elasticity.

Having described my invention, I claim—

A spring door holder, in two duplicate or similar parts, one being adapted to be secured to a door, shutter or the like, and the other to a wall, washboard or other fixed part, each consisting of a bracket-plate having attached thereto a spring with curved surfaces and a free end, substantially as described, the two spring parts being adapted, as the door, shutter, or the like, is thrown open to ride upon, spring over and interlock with each other by reason of their elasticity, and to be detached, as set forth.

In testimony whereof I hereto set my hand and seal.

PLATO G. EMERY. [L. s.]

Witnesses:

WM. S. ESTELL,  
CHARLES T. CHURCH.