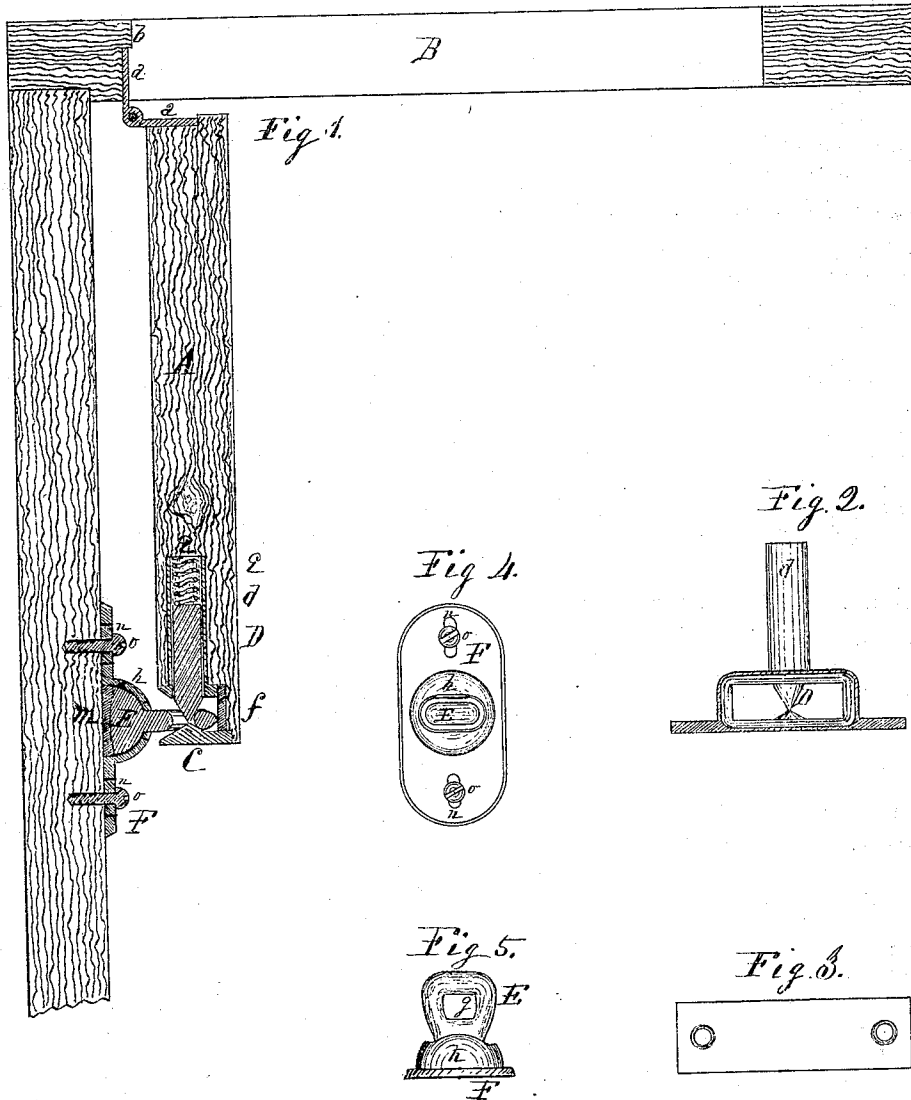


M. V. DOYLE & J. BEHEL.
Improvement in Door-Stops.

No. 115,038.

Patented May 23, 1871.



Witnesses.
J. G. Manlove
J. M. Buell

Inventors.
Michael V. Doyle
Jacob Behel

UNITED STATES PATENT OFFICE.

MICHAEL V. DOYLE AND JACOB BEHEL, OF ROCKFORD, ILLINOIS.

IMPROVEMENT IN DOOR-STOPS.

Specification forming part of Letters Patent No. 115,038, dated May 23, 1871; antedated May 10, 1871.

We, MICHAEL V. DOYLE and JACOB BEHEL, both of the city of Rockford, in the county of Winnebago and State of Illinois, have invented certain Improvements in Door-Steps, of which the following is a specification:

Nature and Object of the Invention.

The first part of our invention relates to an adjustable-cushioned door-stop; and consists of a flexible-cushioned staple, secured in a suitable plate, of such construction that by means thereof it can be adjusted to receive the door and hold it in place by means of a suitable latching device secured thereto. The second part of our invention relates to a latching device in a door-stop; and consists of a conic-pointed spring-bolt, suitably incased, with or without an elastic cushion, and secured in or to the door in position to receive the socketed staple in the stop.

Description of Accompanying Drawing.

Figure 1 is a sectional view cut on a horizontal line at the center of the stop. Fig. 2 is a front-face view of the case of the spring-bolt. Fig. 3 is a front-edge view of the same. Fig. 4 is a face view of the stop. Fig. 5 is an end view of the same.

General Description.

In the drawing, A represents a door hung upon hinges *a a* to jamb *b* of opening B. In the front edge of door A is placed the case C, in the tube *d* of which is placed the conic-pointed bolt D, behind which is placed the spiral spring *e*. *f* is an elastic cushion, against which the stop-staple strikes. E is a staple, with opening *g* to receive the conic point of bolt D. The base of staple E is circular. Its outward surface is spherical and its rear surface crowning. F is a plate, the center *h* of which is raised to receive the spherical portion of staple E. An opening is cut in the top of the raised cup *h* of plate F, through which the

staple E is passed, the base resting in the cup. Under the circular base of staple E, and in the base of cup *h*, is placed the elastic cushion *m*. In plate F are slotted openings *n* to receive the screws *o*, by means of which it is secured in place, and upon which it can be adjusted to receive the door.

It will be seen, from the construction of the staple E, cup *h* in plate F, with the elastic cushion *m*, that the staple E is not rigid, but turns in every direction so as to adjust itself to slight changes in the door and accommodate itself to receive the latch-bolt D; and when the changes in the door from any cause are greater than the flexibility of the staple will permit of, it can be adjusted by means of the screws *o* and slots *n* in F.

In this instance we have represented our invention constructed to be let into the edge of the door; but we do not wish to confine ourselves to this particular construction or application, as it is evident that it can be of suitable construction to be let into the side of the door and secured thereto; or the staple E may be secured to the door, and the conic-pointed bolt, in a suitable case, may be secured in any required position or manner to receive the door and hold it as desired, without departing from the principles of our invention.

Claims.

We claim as our invention—

1. The combination of the pointed bolt D, spring *e*, and projection C with its double inclines and staple E, all as described.
2. The combination of the socketed staple E, the adjustable plate F, and elastic cushion *m*, all as and for the purpose hereinbefore shown and described.

MICHAEL V. DOYLE.
JACOB BEHEL.

Witnesses:

W. O. WORMWOOD,
D. FORBES.