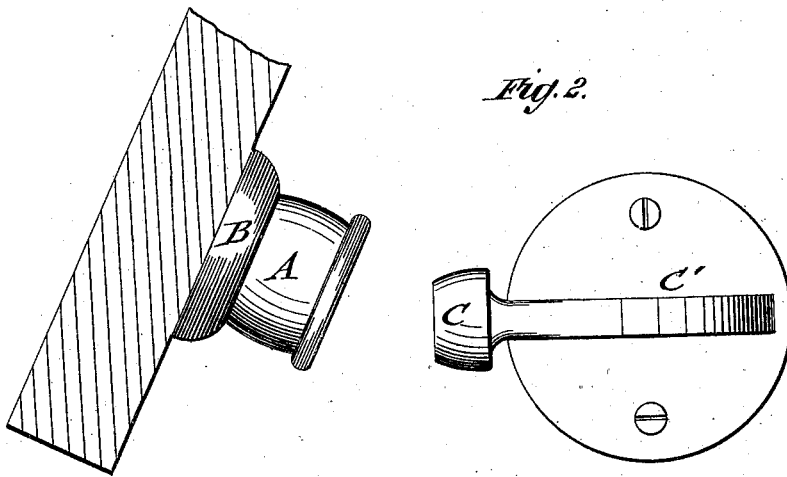
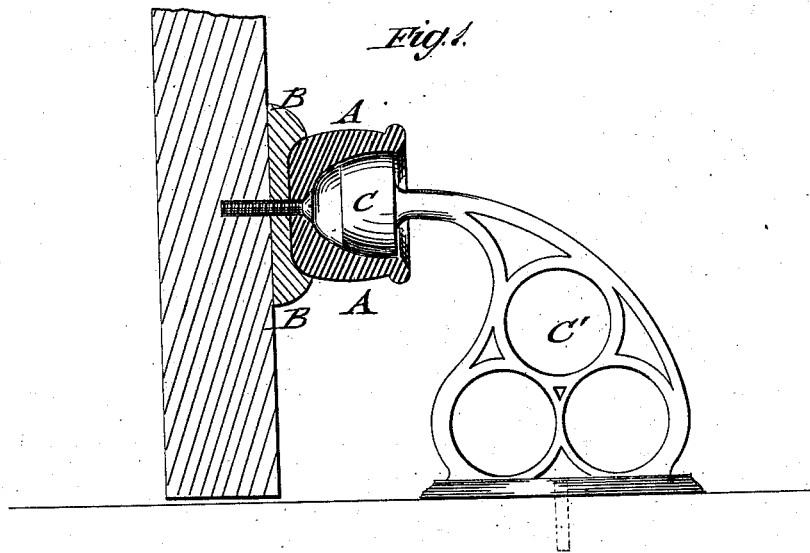


H. KNOWLTON.  
Door-Stop and Holder.

No. 199,451.

Patented Jan. 22, 1878.



WITNESSES:

*Francis M. Auld.*  
*J. H. Scarborough.*

INVENTOR:

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BY

*Mumford*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HENRY KNOWLTON, OF FLINT, MICHIGAN, ASSIGNOR TO HIMSELF AND  
LORENZO D. COOK, OF SAME PLACE.

## IMPROVEMENT IN DOOR STOPS AND HOLDERS.

Specification forming part of Letters Patent No. **199,451**, dated January 22, 1878; application filed  
December 4, 1877.

*To all whom it may concern:*

Be it known that I, HENRY KNOWLTON, of Flint, in the county of Genesee and State of Michigan, have invented a new and Improved Door Stop and Holder, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a sectional side elevation of my improved door stop and holder, shown as connected; and Fig. 2, a top view of the same shown in detached state.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved door stop and holder that retains the door, when opened, in easy manner, without jar or shock, and also admits the ready disconnecting of holder and stop.

The invention consists of the novel connection and combination of a cup-shaped rubber socket, attached to the door, with a fixed ball-shaped stop of the base-board or floor, all as hereinafter more fully described and claimed.

Referring to the drawing, A represents a rubber socket, of cup shape, that is placed in position on a dishing or concaved base-plate or seat, B, of wood or metal, and screwed to the door at the proper point.

The stop C is either screwed to the base-board, or, by means of a curved standard and base-plate, C', to the floor. The stop C is supported at the same height with the rubber

holder, and made in the shape of a ball, so as to enter easily the socket when the door is opened.

As the ball-shaped stop enters the rubber socket, the latter closes tightly around the stop, and forms an air-cushion that admits only the partial entrance of the stop, and secures the stopping of the door in noiseless and easy manner, without violent jars or shocks. The door cannot get detached from the rubber socket, as the partial vacuum formed by the cup and ball secures the tight holding of the stop until, by the act of closing the door, the resistance of the vacuum is overcome and the stop withdrawn from the cup, supplying thus an easily-working, noiseless, and reliable door stop and holding device.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The rubber socket A, secured by a single-central screw to a concaved base, combined with a conical stop, C, the bead of the socket closing on and over the rear shoulder of the stop, and the latter compressing air to form a cushion to the door as it is thrown open, as well as holding it firmly in position, all substantially as shown and described.

HENRY KNOWLTON.

Witnesses:

WM. STEVENSON,  
OSCAR ADAMS.