

E. J. STEELE.
Door-Buttons.

No. 152,774.

Patented July 7, 1874.

Fig. 1.

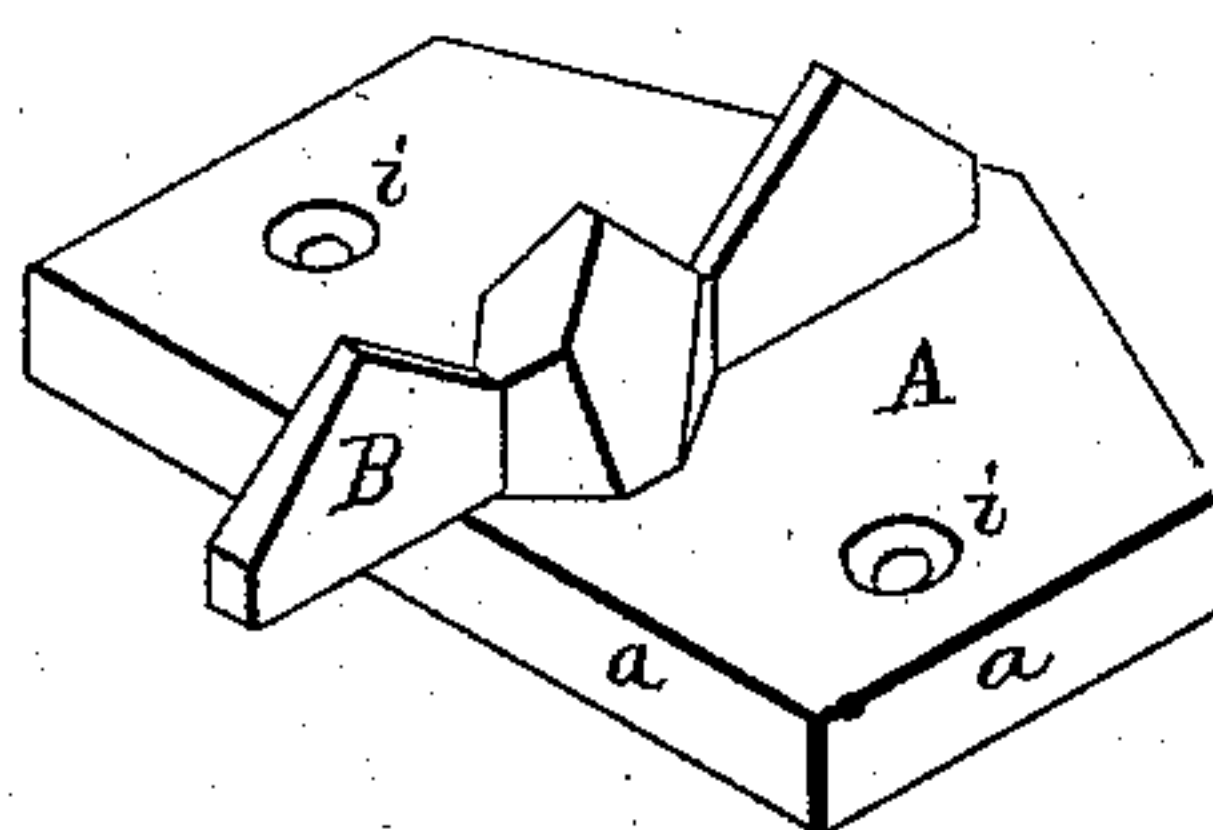


Fig. 2.

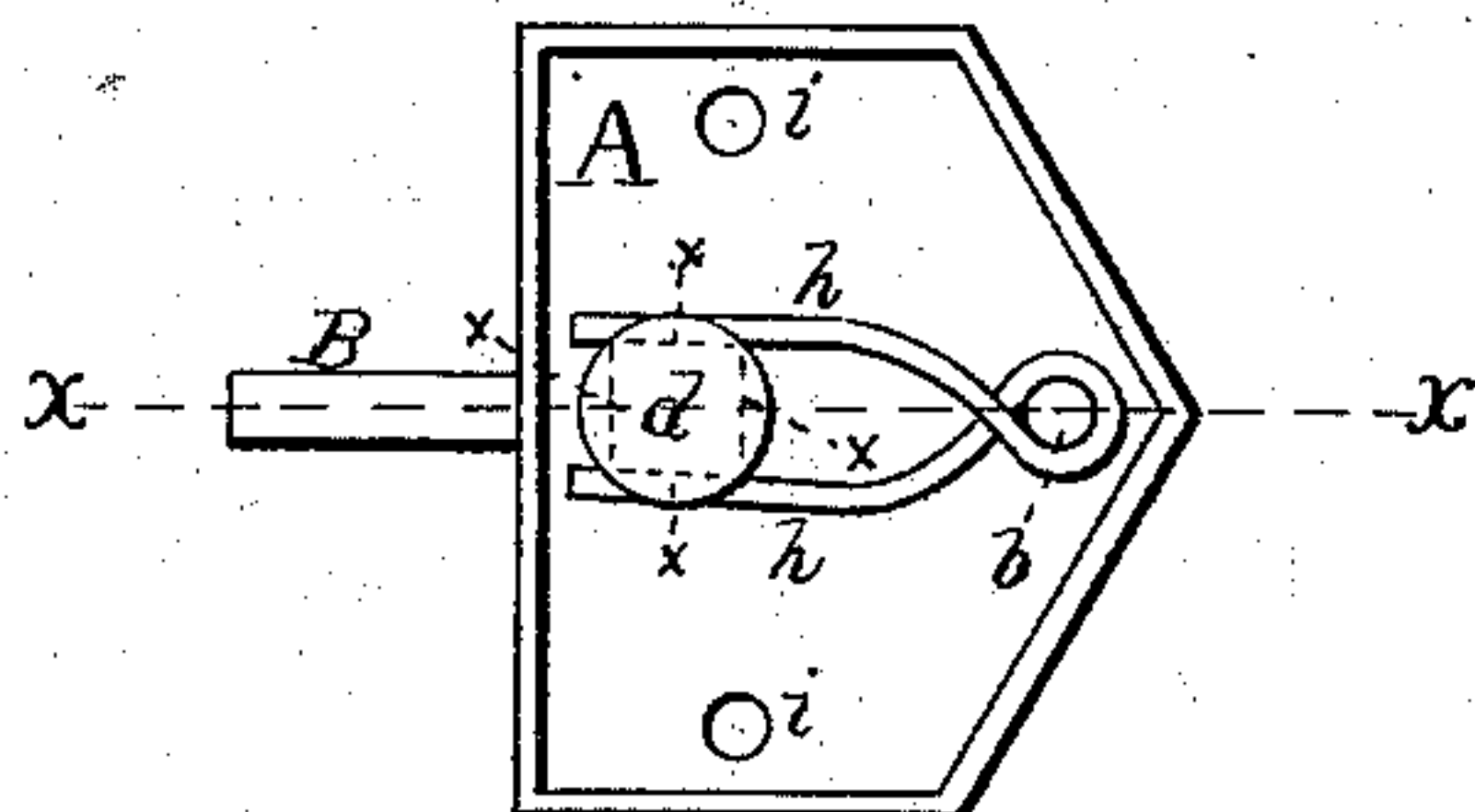
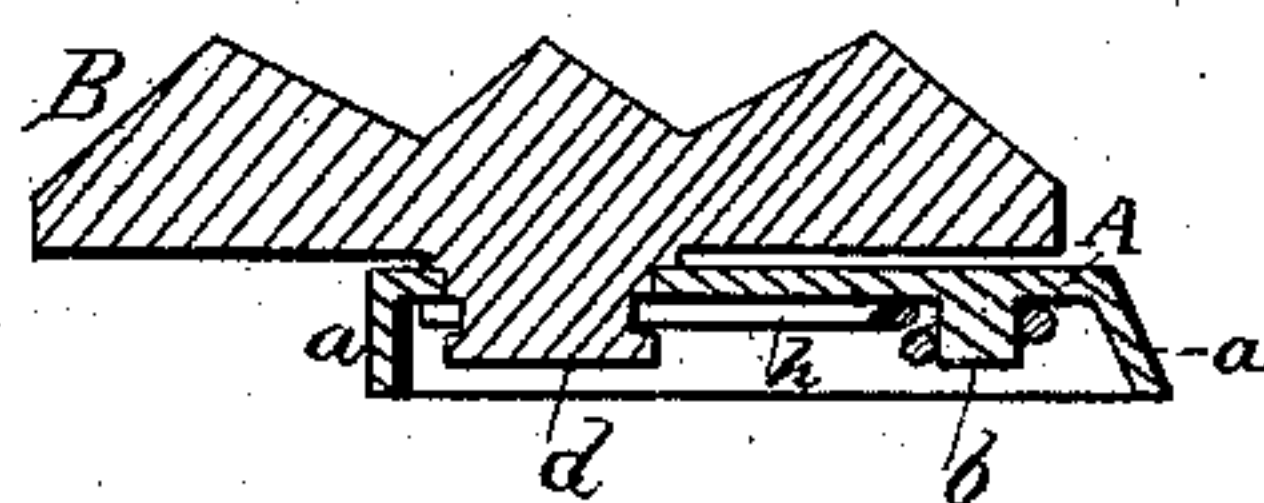


Fig. 3.



Witnesses.
Henry N. Miller.
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Inventor:
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UNITED STATES PATENT OFFICE.

ELBRIDGE J. STEELE, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE
TAYLOR MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN DOOR-BUTTONS.

Specification forming part of Letters Patent No. **152,774**, dated July 7, 1874; application filed
March 3, 1874.

To all whom it may concern:

Be it known that I, ELBRIDGE J. STEELE, of New Britain, county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Buttons for Doors, of which the following is a specification:

The nature of my invention consists in the novel combination and arrangement of a plate, button and wire spring to form a button for doors, show-cases, &c.; the spring, working in grooves in the shank of the button, thereby holds the button to the plate, and also holds the button firmly at every quarter-revolution, to prevent it from being turned after being set, as will hereinafter be more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my door-button. Fig. 2 is a bottom or inside view; and Fig. 3, a longitudinal section of the same.

A represents a cast metal plate, of any suitable dimensions, and of the form shown in the drawing, or any other form or shape desired. This plate is cast with a flange, *a*, around its edges, projecting on one side only, forming, as it were, a shallow box or casing, within which, in the center, near the outer side, is cast a stud, *b*. B represents the button, formed in any suitable shape, and cast with a short round shank or stem, *d*, in the center. This stem or shank *d* is passed through a hole cast in the plate A, in the center, near the outer edge, the stem projecting on the under side of the plate. In the circumference of the shank

or stem *d*, immediately within or on the inside of the plate A, are made grooves, *xx*, forming four straight sides, as shown by dotted lines in Fig. 2. Around the stud *b* is wrapped a wire spring, *h*, the ends of which cross each other, and are sprung into the grooves *xx* on the stem *d*. This spring serves a twofold purpose: First, it holds the button B to the case or plate A, and prevents its being removed from the same; second, it holds the button firmly at every quarter of a revolution, and prevents its becoming turned after being set. The plate A is fastened to the door-frame by screws, through holes *i i* cast in the plate.

I am aware that a door-button provided with a spring to keep the same from turning is not new, and hence I do not claim such broadly as my invention. By my construction of the door-button no screw or bolt is necessary to hold the button to the plate, the same spring which prevents the button from turning holding the button to the case.

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

The combination of the flanged plate A with stud *b*, the button B, with stem or shank *d*, having grooves *xx*, and the wire spring *h*, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my invention, I hereunto affix my signature this 27th day of February, 1874.

ELBRIDGE J. STEELE.

Witnesses:

HENRY NASH,
JULIUS H. PEASE.