

PURMORT BRADFORD.

Improvement in Turn Buttons for Doors, &c.

No. 119,499.

Patented Oct. 3, 1871.

fig 1

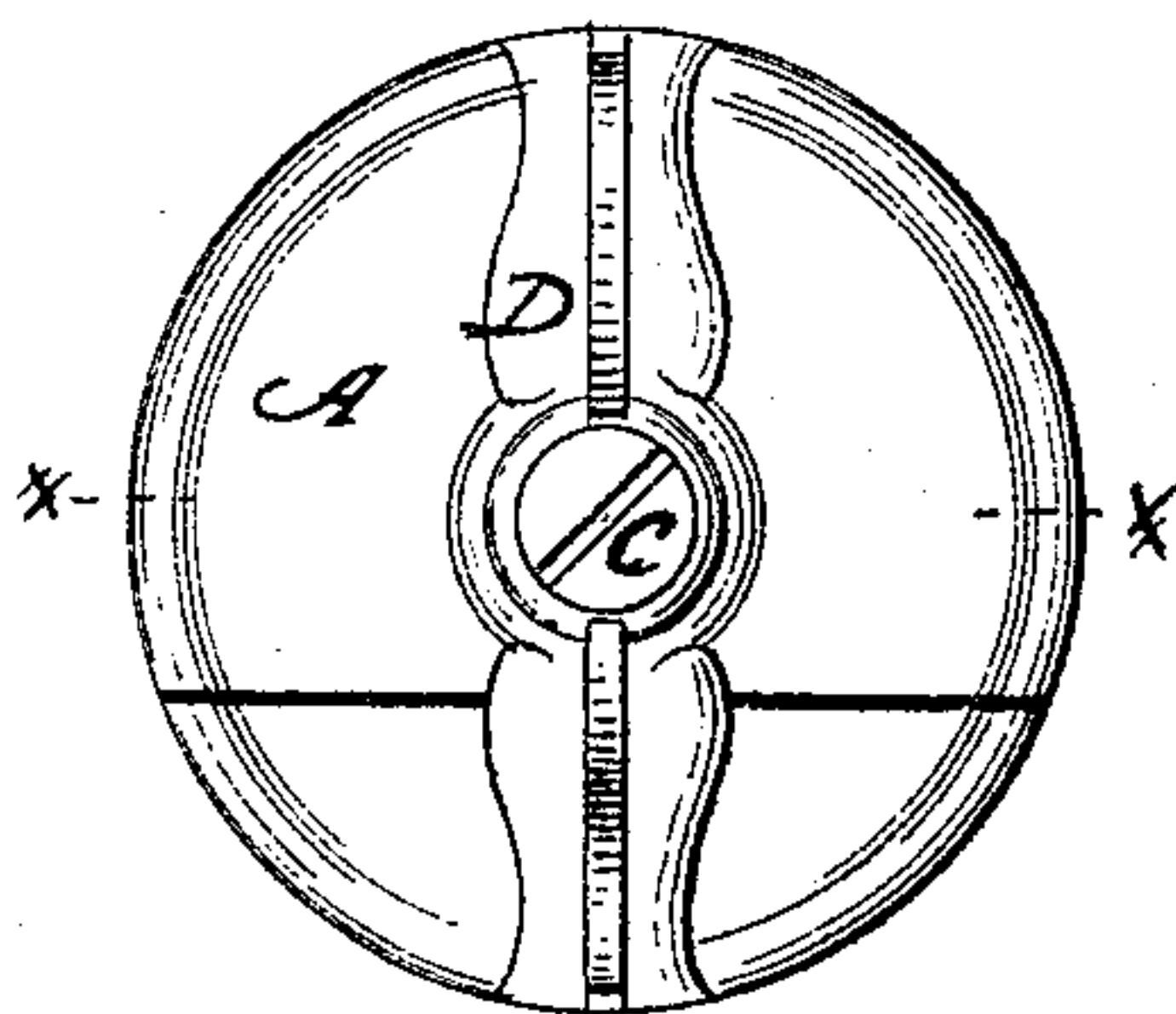
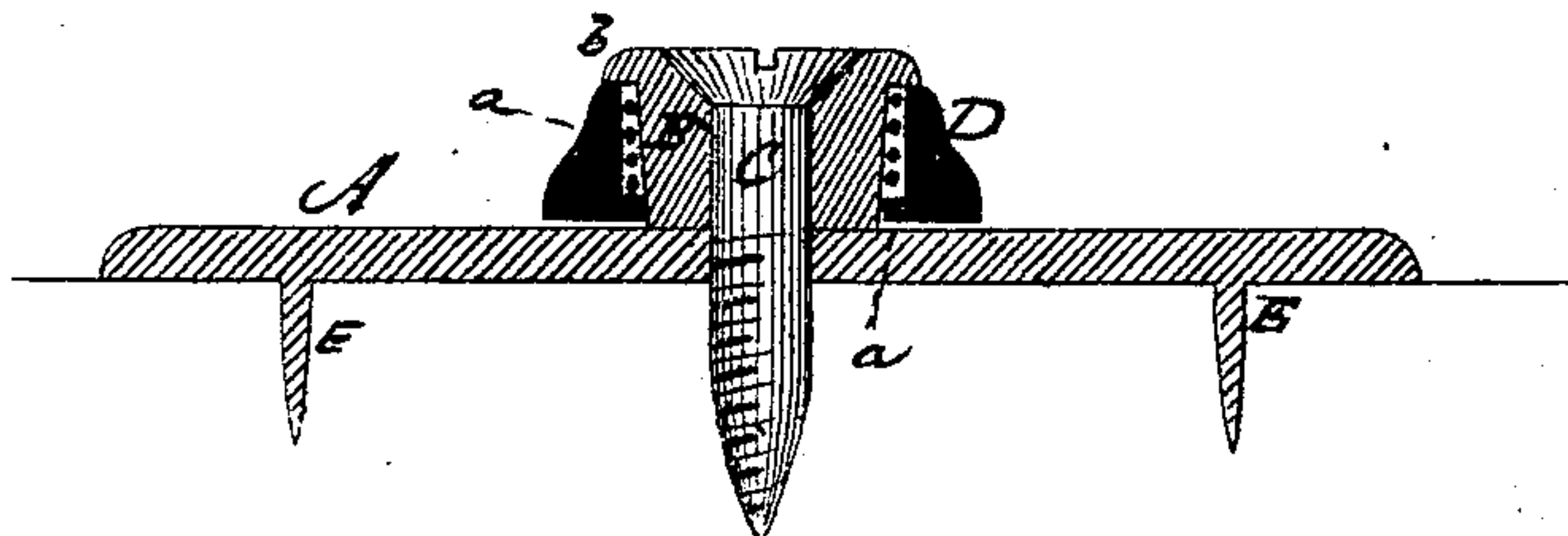


fig 2



Witnesses.
 Wm. A. Bull
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UNITED STATES PATENT OFFICE.

PURMORT BRADFORD, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO SARGENT & CO., OF SAME PLACE.

IMPROVEMENT IN TURN-BUTTONS FOR DOORS, &c.

Specification forming part of Letters Patent No. 119,499, dated October 3, 1871.

To all whom it may concern:

Be it known that I, PURMORT BRADFORD, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Turn-Buttons; and do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents in—

Figure 1 a top view, and in Fig. 2 a central section on line *x x*, enlarged.

This invention relates to an improvement in that class of hardware known to the trade as "turn-buttons," the object being to simplify the construction and means of securing the said button in place. My invention consists in the construction of the button proper with a perforation chambered out to receive a sleeve or headed stud, which passes through the perforation in the button and sets upon the plate, the space between the head of the said stud and plate being relatively to the thickness of the button, so that when the stud is secured to the plate the button will turn freely thereon, and this stud, plate, and button are secured together and into the position required by a single screw passing through the plate, as more fully hereafter described.

A is the plate, of the usual form; B, a stud, circular in form, with a projecting flange or head, *b*. Through this stud and plate a perforation is made, through which a screw *c'* is passed, the said screw entering jamb of the door, or to whatever the door is attached, and securing

the stud and plate firmly thereto and together. D is the button, of any desirable form, through which an opening is made conforming to the stud B beneath the head; the thickness of the bottom also corresponds to the space between the head *b* and the plate A, so that when the stud is passed through the button and set upon the plate and the whole secured in place the button will turn freely thereon.

For convenience in attaching the plate I form points *e*, more or less in number, upon the under side. The parts being all cast exactly to form, the mechanical labor on the button is comparatively small.

As a frictional device, to prevent the button turning too easily, I chamber out the button, as at *a*, Fig. 2, leaving an internal flange at the bottom of the button, and in this recess around the stud arrange the spiral or other suitable spring, which, bearing up against the head of the stud and down upon the flange of the button, creates sufficient friction to retain the button in any desired position.

I claim as my invention—

1. The combination of the plate A, headed stud B, and button D, secured together substantially as set forth.

2. In combination with the above, the recess *a* in the button and the spring device therein, substantially as and for the purpose specified.

PURMORT BRADFORD.

Witnesses:

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