

W. H. SHATTUCK.
Separable Button.

No. 224,849.

Patented Feb. 24, 1880.

Fig. 1.

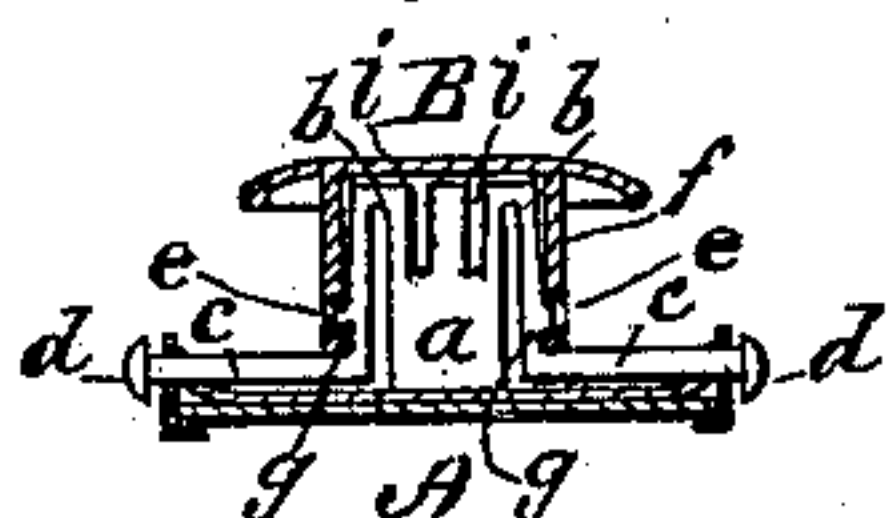


Fig. 2.

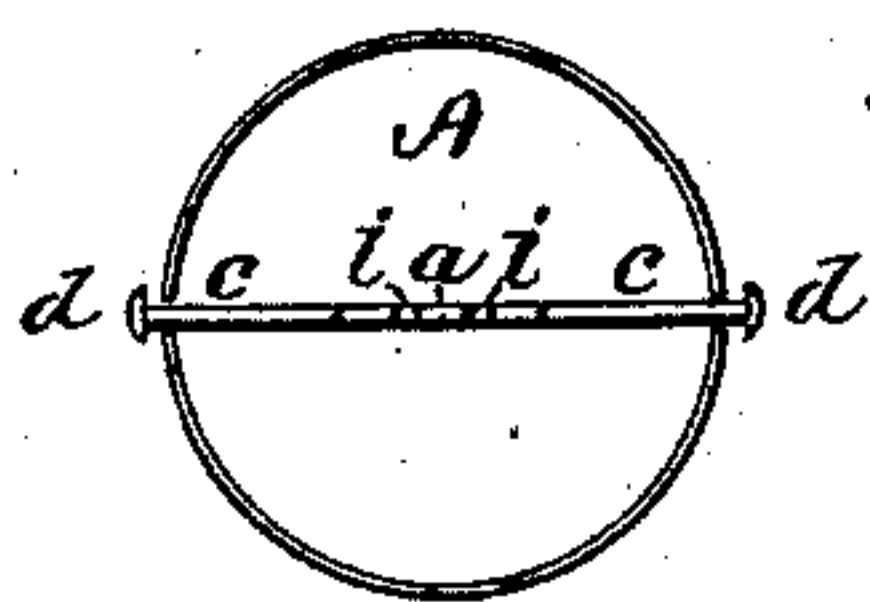


Fig. 3.

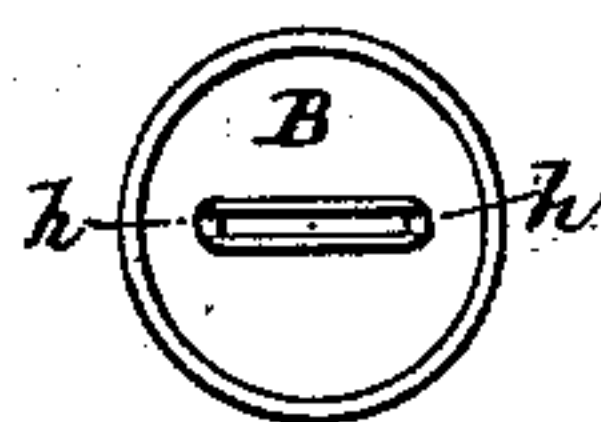


Fig. 6.

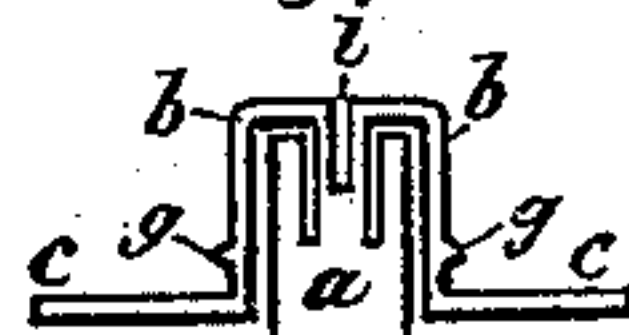


Fig. 4.

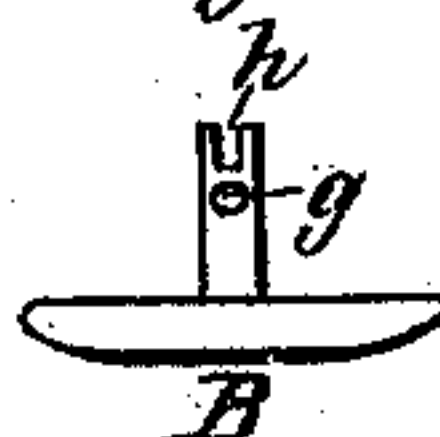


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM H. SHATTUCK, OF PROVIDENCE, RHODE ISLAND.

SEPARABLE BUTTON.

SPECIFICATION forming part of Letters Patent No. 224,849, dated February 24, 1880.

Application filed January 2, 1880.

To all whom it may concern:

Be it known that I, WILLIAM H. SHATTUCK, of Providence, in the State of Rhode Island, have invented an Improvement in Separable Buttons, of which the following is a specification.

The nature of my invention consists in forming the catch springs and their operating pushers all in one piece from flat stock, and attaching them at right angles to the back of the front plate.

Heretofore in the manufacture of separable buttons it has been customary to attach a solid post to the front portion of the button, and to attach thereto, or to some portion of the front plate, a separately-made spring and pusher; but most of such buttons have been of comparatively complicated construction, and some of them even require that the spring and pushers be covered from sight by means of an additional plate. I have, however, invented an improved separable button in which the separately-made supporting-post is dispensed with, and in which the spring-movement may be desirably exposed to view, resulting in a considerable saving in the cost of the manufacture of such buttons.

Figure 1 is a sectional view taken in the plane of the spring, showing both parts of the button attached. Fig. 2 is an under view of the front portion of the button. Fig. 3 is a plan view of the back portion of the button, showing the end of the hollow post. Fig. 4 shows an edge view of the hollow post. Figs. 5 and 6 are separate views of the spring and pushers.

In the accompanying drawings, A is the front portion of the button, to which are attached the combined springs *b* and pushers *c*, cut in one piece from a suitable strip or plate of hard-rolled sheet metal, so as to leave an opening, *i*, at the back of and between the springs, and secured to the front portion of the button by soldering the central portion or post, *a*, to the back of the front plate.

Suitable caps *d d* may be soldered to the ends of the pushers *c c* in order to present suf-

ficient bearing-surface for the action of the thumb and forefinger in pressing back the springs *b b* in order to release the back portion, B, of the button.

Openings are formed at *e e* upon the opposite sides of the hollow post *f* to engage with slight spurs or with suitable notches *g g* in the edge of the springs *b b*. The openings *h h* are made in the edge of the hollow post to receive the pushers, and to cover the springs and the portion *a* from view whenever the two parts A B of the button are placed together. The slots or openings *i i* serve to increase the flexibility of the spring, which would otherwise be too short and stiff for practical requirements.

I am aware that a spring and pusher cut from a single piece of flat stock are not new. I am also aware that a spring and pusher in one piece has been employed attached to the top of a separately-formed supporting-post, the spring starting laterally from the post, and then turning toward its base; but the length and scope of movement of such a spring are too much restricted for the requirements of use and durability. I have, however, by cutting out the openings *i* at the back of the spring, so modified the same that, instead of leaving the top of its support or post in a plane parallel with the face of the front portion of the button, it will leave the same at right angles to said face, thus securing a longer and more durable spring than heretofore obtained in similar buttons.

I claim as my invention—

In a separable button, the combination of the back portion, B, and hollow post *f*, provided with the side openings, *e e*, with the pushers *c c* and springs *b b*, attached at right angles to the front portion, A, and provided with the catch-notches *g g*, and with an opening, *i*, back of the springs, substantially as described.

WILLIAM HENRY SHATTUCK.

Witnesses:

EDWARD CARD,
HARMON S. BABCOCK.