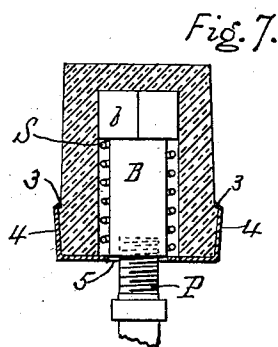
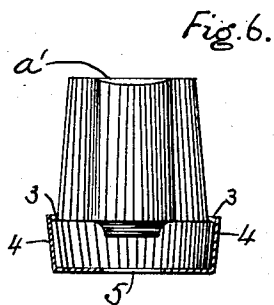
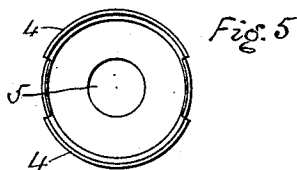
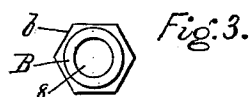
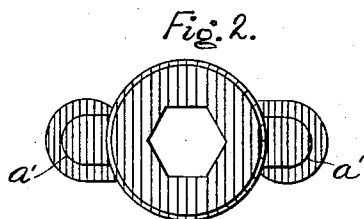
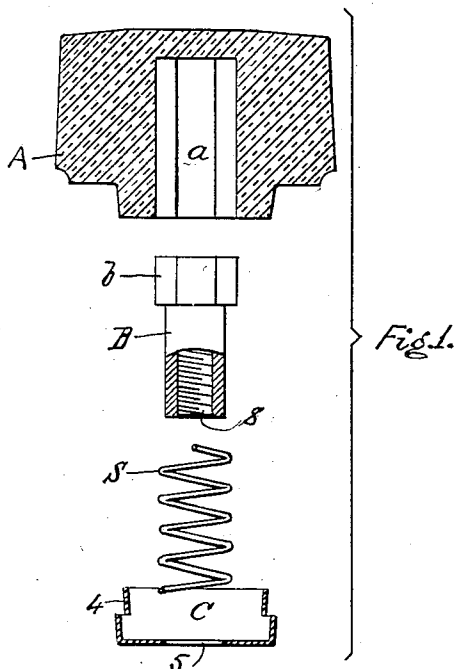


No. 835,278.

PATENTED NOV. 6, 1906.

G. W. GOODRIDGE.
HANDLE FOR ELECTRIC SNAP SWITCHES.

APPLICATION FILED NOV. 21, 1905.



WITNESSES

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HANDLE FOR ELECTRIC SNAP-SWITCHES.

No. 835,278.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed November 21, 1905. Serial No. 288,419.

To all whom it may concern:—

Be it known that I, GILBERT W. GOODRIDGE, a citizen of the United States of America, and a resident of Bridgeport, in the county of Fairfield, State of Connecticut, have invented certain new and useful Improvements in Handles for Electric Snap-Switches, of which the following is a specification.

My invention relates more particularly to that class of handles or turn-buttons for rotary snap-switches which are secured to and operate the central spindles of the switch mechanisms and at the same time hold the inclosing caps to the base with a yielding pressure.

The object of my invention is to so construct such a handle of a rotary snap-switch that it will be economical and easy to manufacture and assemble, have few parts, and yet be strong and efficient in use.

In the accompanying drawings, Figure 1 is a view of the several parts of my improved switch-handle ready to be assembled, most of the parts being shown in section. Fig. 2 is an inverted plan view of the handle without its parts. Fig. 3 is an inverted plan view of the plunger. Fig. 4 is an end view of the spring. Fig. 5 is a plan view of the cup. Fig. 6 is an end view of the handle with the cup in section before it is secured in place, and Fig. 7 is a sectional view of the complete handle.

The body A of the handle is preferably molded of suitable insulating material, and it is formed with a polygonal hole *a*, closed at the top of the handle but open at the under side. In this case the hole is shown as of hexagonal section. In this hole is a plunger B, with a head *b* of corresponding section, but of sufficiently reduced diameter below to receive a spiral opening S, on which the under side of the plunger-head *b* may rest, Fig. 7. The handle is formed with the usual wings *a'* *a'* and also with a central hub or projection *a*² around the mouth of the open end of the hole *a*, this projection being

such as to leave shoulders 3 3 on opposite sides of the body of the handle, as shown in Figs. 6 and 7. I provide a flanged sheet-metal retaining-cup C to fit over the outside of this hub or projection, the opposite flanges 4 4 of this cup being of sufficient depth to project beyond the shoulders 3, Fig. 7. This cup is provided with a central hole 5 of a size sufficient to permit the reduced end of the plunger to play through it, but otherwise closing the bottom of the hole *a*, so that when the parts are assembled the lower end of the spring will bear on the cup C, whose flanges 4 4 have meantime been bent over the shoulders 3 3 to hold it to the body A, Fig. 7. The plunger has an internally-threaded hole 8 at its lower end, Fig. 1, to receive the upper threaded end of the switch-operating spindle P, Fig. 7.

In the described construction of switch-handle there are only four parts, as shown, and the composition body A can be easily and economically molded, since there is no metallic part to be embedded in it, as is common in this class of handles. The retaining-cup, moreover, being fitted over the projection or hub tends to strengthen it and prevent it from splitting.

I claim as my invention—

1. The combination of the insulating-body of a switch-handle, with a headed plunger and spring therein, and a retaining-cup secured to the outside of the insulating-body.

2. The insulating-body of a switch-handle, and a headed plunger and spring therein, the said body having a bottom projection with shoulders, in combination with a retaining-cup fitting over said projection and flanged over its shoulders.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GILBERT W. GOODRIDGE.

Witnesses:

H. W. GOLDSBOROUGH,
GEO. B. THOMAS.