To all whom it may concern:

Be it known that JULES D. BISCAYART and FERNAND CAILLETTEAU, citizens of the United States, residing at Atlanta, in the county of

Fulton and State of Georgia, have invented certain new and useful Improvements in Attachments for Operating Snap-Switches; and they do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in attachments for operating snap switches and consists of a simple and efficient device of this nature, adapted to be readily attached to the button of the switch and affording means whereby a spring actuated drum, operated by a chain or cord, may cause the button to be turned.

The present invention consists of a simple and efficient device of this nature having various details of construction, combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claims.

The invention is illustrated in the accompanying drawings which, with the letters of reference marked thereon, form a part of this specification and in which:

Figure 1 is an end elevation showing the device as applied to the button of a switch.
Figure 2 is a view in elevation taken in a plane at right angles to Fig. 1.
Figure 3 is a detailed view in elevation, and
Figure 4 is a central sectional view through the device as applied to the button.
Reference now being had to the details of the drawings by letter:

A designates a rotatable drum having intersecting transverse slots B formed therein, provided to receive the button A' of the switch. Said drum has a rib C about the same, the circumference of which rib has ratchet teeth D formed therein and said drum has an annular shoulder E adapted to have a bearing in the circular outlined opening E' of the disk F, which disk has laterally extending L shaped lugs H projecting at points diametrically opposite and which are adapted to engage the slots I formed in the disk I', which latter has a circular outlined opening through which an annular shoulder at the other end of the drum passes and has a bearing therein. By this construction, it will be noted that both ends of the drum have bearings in the disks which are parallel to each other. Said disk I' has resilient arms L projecting laterally therefrom and at points diametrically opposite and which are adapted to engage the socket 65 of the lamp on which the device is applied for the purpose of holding the disks stationary.

A ring, designated by letter N, has an inverted L shaped integral portion N', said ring being mounted about the drum upon which it has a bearing and said inverted L shaped end has pivotally mounted therein a pawl S, adapted to engage the teeth D, and a cord X is connected to one end of said projection N' and passes through the aperture in the angled end of an arm P, which serves as a guide for the cord. A coiled spring, mounted upon the drum, intermediate the disk F and the ring N and has one end fastened to the projection N' of the ring and its other angled end J which is fastened to one of the lugs H, as shown in Fig. 4 of the drawings.

It will be noted in Fig. 4 of the drawings, that the spring actuated movement of the ring in one direction is limited by one of the lugs H which is disposed in the path of the projecting portion N'.

In operation, when the parts are assembled, as shown, and the device attached to the socket of a lamp, with the button extending through one of the slots B, by pulling upon the cord, the ring may be given a partial rotary movement and the pawl carried by the ring will engage the teeth upon the circumference of the drum and cause a similar partial rotary movement to be imparted to the drum, and also to the key of the snap switch, which engages the slot of the 100 drum. In this movement of the drum the spring will be under tension and when the cord is released, the spring will return the ring to its normal starting position, carrying with it the pawl which is mounted thereon, the pawl turning idly over the ratchet wheel.

What we claim to be new is:

1. An attachment for snap switches for operating the same, comprising a drum having intersecting slots formed therein for the reception of a button of a switch, said drum
having circumferential teeth, disks having circular outlined openings in which the ends of the drum are journaled, integral lugs projecting from one disk and passing through apertures in the other disk and clenching thereto, a ring journaled upon the drum and having a projection thereon adapted to contact with one of said rings to limit the movement of the same in one direction, a cord secured to said projection, a pawl pivotally mounted upon the latter and engaging the ratchet teeth, a coiled spring fastened at one end to said projection and its other end to said disk.

2. An attachment for snap switches for operating the same, comprising a drum having intersecting slots formed therein for the reception of a button of a switch, said drum having circumferential teeth, a flanged disk having circular outlined openings in which one end of the drum is journaled, lugs projecting from said flange at points diametrically opposite, a second disk with circular outlined openings in which the other end of the drum is journaled, and provided with slots for the reception of said lugs, and resilient arms for engagement with the socket, a ring journaled upon the drum and having a lateral projection, a cord secured thereto, a pawl pivotally mounted upon said projection and engaging said ratchet teeth, one of said lugs being positioned in the path of said projection, a spring fastened at one end to the latter and the other end to one of said disks, as set forth.

In testimony whereof we hereunto affix our signatures in presence of two witnesses.

JULES BISCAYART.
FERNAND CAILLETEAU.

Witnesses:

ALINE MELCHOR,
G. H. HAHN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D.C."