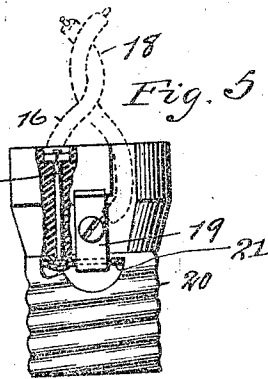
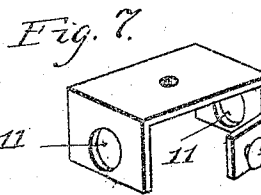
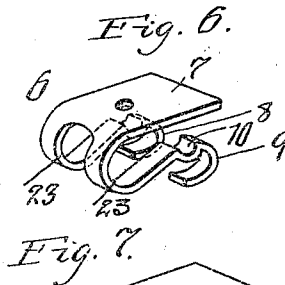
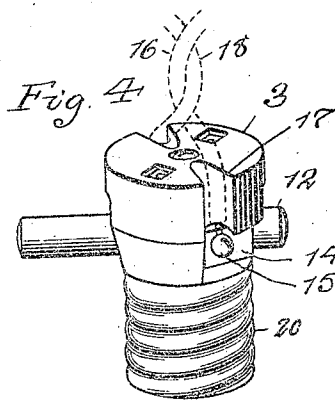
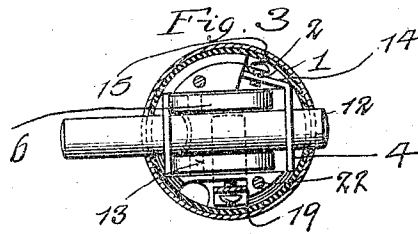
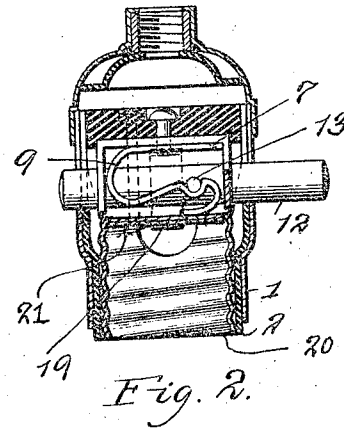
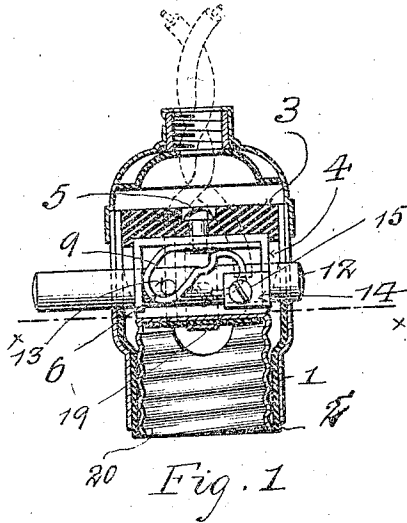


A. V. A. McHARG.
SWITCH.
APPLICATION FILED APR. 8, 1912.

Patented Aug. 20, 1912

1,036,294.



Witnesses:
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UNITED STATES PATENT OFFICE.

ARTHUR V. A. McHARG, OF NEW YORK, N. Y.

SWITCH.

1,036,294.

Specification of Letters Patent.

Patented Aug. 20, 1912.

Application filed April 8, 1912. Serial No. 689,104.

to all whom it may concern:

Be it known that I, ARTHUR V. A. McHARG, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a certain new and useful Improvement in Switches, of which the following is a specification.

The invention is a switch, especially designed for glow-lamp sockets, and has for its object to simplify and cheapen the construction.

The device comprises a leaf spring in loop form interposed between the circuit terminals, the free end of which spring is controlled to open or close circuit by means of a simple sliding rod or push button.

In the accompanying drawings—Figure 1 is a longitudinal section of a lamp socket containing my device and showing the switch open. Fig. 2 is a similar section showing the switch closed. Fig. 3 is a horizontal section on the line *x, x* of Fig. 1. Fig. 4 is a perspective view of the internal plug, showing one circuit terminal. Fig. 5 is an elevation of said plug, showing the other circuit terminal and with a part broken away to show one of the securing bolts for the threaded shell. Fig. 6 shows the switch, and Fig. 7 the bracket supporting the same, separately and in perspective.

Similar numbers of reference indicate like parts.

My device is disposed in a plug, Fig. 4, which is inserted in the usual metallic shell 1 of a glow-lamp socket, a lining 2 of insulating material being interposed. Said plug comprises a body portion 3 of porcelain, suitably cut out to receive a metal bracket 4 secured in place by screw 5. Within the bracket is placed the switch 6, Fig. 6, which consists of a flat metal plate 7, having arms 8, 9 in substantially S form, having on their upper side, notches or concavities 10. The plate 7 bears against the under side of bracket 4 and is also secured in place by screw 5. In the arms of bracket 4 are circular openings 11 which receive the operating rod 12, from the opposite sides of which extend pins 13.

On one arm of bracket 4 is a projection 14, Fig. 7, provided with a clamping screw 15. To this projection the circuit conductor 16 entering the socket is attached, said conductor being led to the screw 15 through a notch 17, Fig. 4, made in the plug. The

other circuit conductor 18 is secured to a plate 19 fastened on one side of the plug, and extending down through the end of the usual threaded metallic shell 20 which receives the shank of the glow lamp. The plate 19 is insulated from the shell 20 by an interposed layer 21 of mica, or the like, and extends into said shell so as to form a contact for the usual central button on the lamp shank. The threaded shell is secured to the body 3 by headed bolts 22.

When the parts are assembled, the operating rod or push button 12 is inserted in the bracket 4 through the holes 11 therein. It also passes through slots made in the shell 1, and lies between the arms of the switch 6. Under normal conditions, the pins 13 lie in the loops 23 of switch 6, as shown in Fig. 1, the ends of the spring arms then not making contact with the threaded shell 20. When it is desired to close circuit to the lamp, the left hand end of rod 12 is moved to the right of the drawing, until the pins 13 enter the notches 10, meanwhile having forced the ends of the arms 8, 9 downwardly until they rest upon and establish electrical connection with the threaded shell, Fig. 2. The resiliency of the arms holds the pins 13 in the notches. When it is desired to extinguish the lamp, the right hand end of rod 12 is pushed to the left of the drawing, thus removing the pins 13 from the notches 10 and restoring the parts to the position shown in Fig. 1.

I claim:

1. A switch, comprising a support, separated circuit terminals thereon, a leaf spring in loop form connected to one of said terminals, and a rod slidable in said support at right angles to a line joining said terminals, and engaging with said spring to move the free part thereof into contact with the other of said terminals.

2. A switch, comprising a support, separated circuit terminals thereon, a leaf spring in loop form connected to one of said terminals, a rod slidable in said support at right angles to a line joining said terminals, and a pin on said rod entering the loop of said spring and engaging with the free part thereof to move the same into contact with the other of said terminals.

3. A switch, comprising a support, separated circuit terminals thereon, a leaf spring in loop form connected to one of said terminals and having a notch in its free part,

a rod slidable in said support at right angles to a line joining said terminals, a pin on said rod entering the loop of said spring and engaging in said notch, and operating
5 to move said free part into contact with the other of said terminals.

4. A glow-lamp switch, comprising an insulating base, a two-armed bracket of conducting material secured thereto having
10 openings in its arms, a leaf spring in loop form secured to said bracket, a rod slidable in the openings in said bracket arms, a pin on said rod entering the loop of said spring, and a contact on said base in proximity to
15 said spring.

5. A glow-lamp switch, comprising an insulating base, a two-armed bracket of conducting material secured thereto having
20 openings in its arms, a two-armed leaf spring in loop form secured to said bracket, an operating rod disposed between said spring arms and slidable in the openings in

said bracket arms, pins on said rod entering the loops of said spring arms, and a contact on said base in proximity to said spring. 25

6. A glow-lamp switch, comprising an insulating base, a two-armed bracket of conducting material secured thereto having openings in its arms, a two-armed leaf
30 spring in loop form and having a notch in each arm near its free end secured to said bracket, a rod slidable in the openings in said bracket arms, pins on said rod entering the loops of said spring arms and engaging
35 in said notches, and a contact supported on said base in proximity to said free ends of said spring arms.

In testimony whereof I have affixed my signature in presence of two witnesses.

ARTHUR V. A. McHARG.

Witnesses:

GERTRUDE T. PORTER,
MAY T. McGARRY.