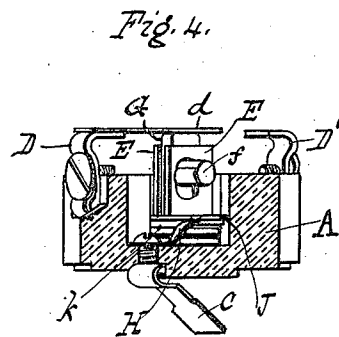
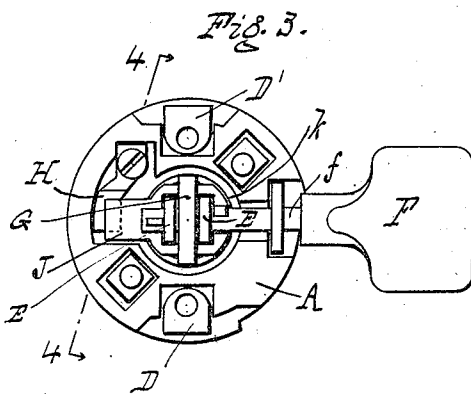
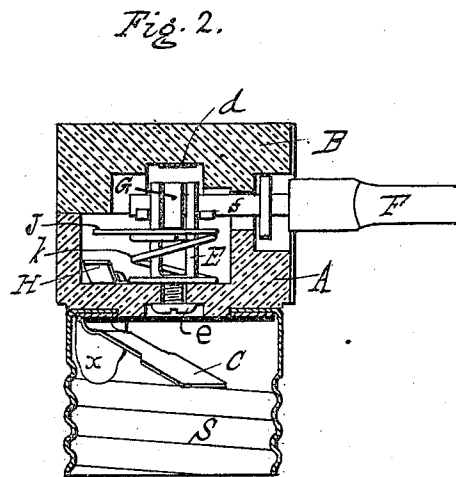
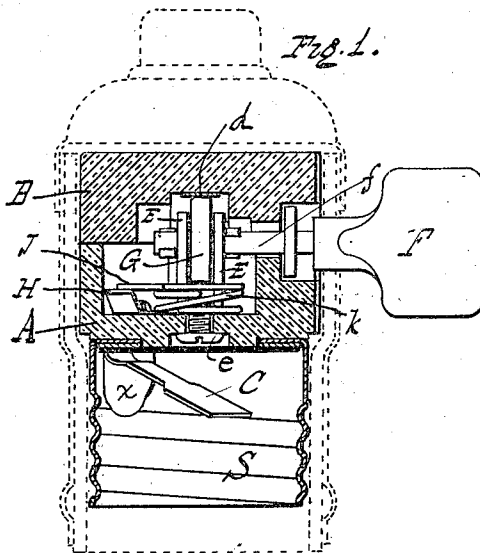


F. P. POOLE.
ELECTRIC LAMP SOCKET.
APPLICATION FILED SEPT. 21, 1909.

944,208.

Patented Dec. 21, 1909.



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FREDERICK P. POOLE, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE PERKINS ELECTRIC SWITCH MFG. COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

ELECTRIC-LAMP SOCKET.

944,208.

Specification of Letters Patent.

Patented Dec. 21, 1909.

Application filed September 21, 1909. Serial No. 518,847.

To all whom it may concern:

Be it known that I, FREDERICK P. POOLE, a citizen of the United States of America, and residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Electric-Lamp Sockets, of which the following is a specification.

The object of my invention is to provide an electric incandescent lamp socket with a simple switch mechanism giving a double break when the key is turned to cut out the current.

In the accompanying drawing, Figure 1 is a vertical section, of my improved socket, the lined inclosing shell being indicated in dotted lines; Fig. 2 is a similar view with the switch key turned to the open position; Fig. 3 is a plan view of the socket Fig. 2, with the upper insulating button removed; and Fig. 4 is a sectional view on the line 4-4, Fig. 3.

My present improvement is especially applicable to that type of socket in which the insulating body is in two parts juxtaposed and inclosing the switch mechanism.

A and B are the two parts or buttons having in the adjacent faces recesses to form chambers one to receive the switch mechanism. The two parts A and B may be secured together in the usual manner by the two terminal posts D, D', and on the lower face of the lower button are mounted the lamp-receiving terminal screw shell S and center contact C. The screw shell S may be electrically connected to the terminal post D¹ in any suitable way, while the spring contact C is electrically connected to the post D through the switch mechanism. This mechanism includes a horizontal rotary spindle *f* with handle or key F and mounted in slots in the U-shaped frame E, which may be secured by a screw *e* (Figs. 1 and 2) to the button A. On the key spindle *f* is mounted with the usual lost motion a cam piece or tumbler G, and against the underside of this is pressed the moving contact piece J by a spiral spring *k*. This contact piece J is guided vertically by the upright frame E, the two legs of which pass through slots in said piece J.

Connected to or forming part of the post D is a contact arm *d* with which the cam G of the switch makes connection when the cam is in its vertical position, as shown in Figs. 1 and 4.

In the lower part of the chamber which contains the above described switch mechanism is a spring contact finger H, which is electrically connected to the center contact C for the lamp (Fig. 4). When the cam G is turned to the upright position and one end makes contact with the arm *d*, the other end presses down the contact piece J to make connection with the finger H and thus the circuit will be closed through the lamp, Figs. 1 and 4, but when the switch key is given a quarter turn, not only will the contact be broken between the cam G and arm *d*, but the spring *k* will press the piece J out of contact with the finger H, and so give a double break.

I claim as my invention:

1. An electric lamp socket, having an insulating body, lamp-receiving terminals, and a double break switch mechanism, comprising a contact, connected to one of said terminals, a spring-actuated contact piece to make connection therewith, a key spindle with a cam to act on the contact piece, a pair of binding posts and a contact arm for the cam, connected with one of said posts.

2. An electric lamp socket, having an insulating body, lamp-receiving terminals, and a double-break switch mechanism, comprising a contact, connected to one of said terminals, a guide frame, a key spindle with a cam, a movable contact piece guided on the frame to make electrical connection with the said contact, a spring to press the contact piece to the cam, a pair of binding posts and a contact arm for the cam connected to one of the binding posts.

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

FREDERICK P. POOLE.

Witnesses:

F. E. SEELEY,
A. H. JONES.