(No Model.)

L. HENRY & L. N. DALYSSON.

SOCKET SWITCH FOR INCANDESCENT ELECTRIC LAMPS.

No. 489,739. Patented Jan. 10, 1893.

Fig. 1

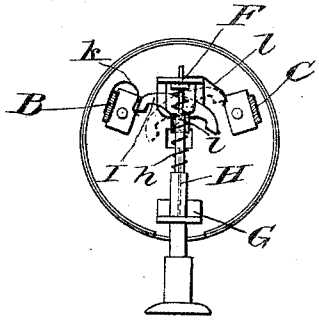


Fig. 3

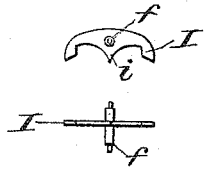


Fig. 2

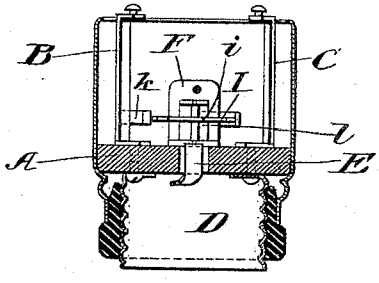


Fig. 4

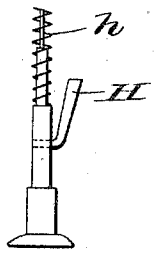
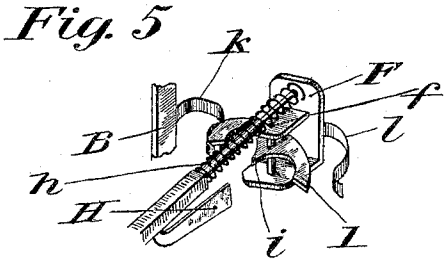


Fig. 5



WITNESSES:

J. D. Caplinger

F. Dittmar

INVENTORS:

Louis Henry and

Louis Napoléon Dalysson

BY

G. Dittmar

ATTORNEY.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LOUIS HENRY AND LOUIS N. DALYSSON, OF NEWARK, NEW JERSEY.

SOCKET-SWITCH FOR INCANDESCENT ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 489,739, dated January 10, 1893.

Application filed October 10, 1892. Serial No. 448,390. (No model.)

To all whom it may concern:

Be it known that we, LOUIS HENRY, diamond-setter, and LOUIS NAPOLÉON DALYSSON, mechanician, citizens of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Switches for Electric Incandescent Lamps; and we 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.

The object of the present invention is to provide means by which the current may be turned on incandescent lamps in using one hand only, by pressing on a button and by which the current can be turned off again, in pressing on the same button. This can easily be effected by using one hand only, while in the devices used heretofore, in turning a key the other hand was usually necessary to hold the lamp.

We represent our improvement in the accompanying drawings in which, Figure 1 is a plan view of the lamp socket after having taken off the cover plate, Fig. 2 is a vertical section through the middle of the lamp socket. Fig. 3 shows in detail the plan view and side elevation of the switch lever and, Fig. 4 is a detail view of the press button with its rod or stem shifting blade and spring. Fig. 5 is a perspective view of the operating parts of the switch as seen in elevation in Figs. 1 and 2.

The parts in our lamp socket are mounted upon the usual insulating block A and one binding post B is placed on it insulated while the other binding post C is in metallic connection with the lower screw shell D which receives the lamp with the filament in the ordinary way by screwing it in, whereby the inner terminal of the filament comes in contact with the spring E which we attach to a metal block F fastened upon the block A. This metal block F forms the bearing of our improved switch lever and receives the end of the stem of the press button. This stem is supported at the other end near the button, by a standard G screwed upon the insulating block A. If the latter forms a binding post at the same time the hole wherein the said stem is playing should be bushed out with ebonite or similar insulating material. The stem is provided with an ordinary spiral spring to bring it back into normal position after having been pressed inward. A shifting blade H of steel, hammered copper, or other elastic material shown in Fig. 4, is fastened under the stem and acts against a V shaped projection *i* arranged in the middle of the switch lever I which has somewhat the form of an anchor. The pin *f* of this lever *i* is fulcrumed between two lugs projecting from the block F so that it tilts slightly over to the right or to the left when the press button and shifting blade H are pressed inwardly.

k and *l* are small latch springs fixed respectively to the binding post B and to the block F in such a height that their free curved ends apply against the rounded extremities of the shifting lever I and hold the latter alternately in two determined positions in one of which the circuit is open and in the other closed.

Fig. 1 shows the switch lever in the position for closed circuit, and the current passes from the binding post B through the spring *k* switch lever I, block F and spring E to the inner terminal of the filament, then from the outer screw shell D over to the other binding post C. Now by pushing in the button the shifting blade H will strike against the right side of the projection *i* of the switch lever I and when arriving at the base of projection *i* will tilt the switch lever over into the position indicated by dotted lines in Fig. 1 whereby the circuit is broken, leaving a space between the lever and the spring *k*. If in this position the pressure on the press button is repeated the shifting blade H will strike the left side of the projection *i* and will evidently bring the lever I back into the position shown in full lines in which the circuit is closed passing over the spring *k* as above explained.

Having thus described our invention what we desire to secure by Letters Patent, is:—

1. The combination with a supporting block, of a switch lever pivoted thereto and having a projecting arm, a spring contact arranged in the path of said arm, and adapted, to engage and hold the same in position, said switch

lever having a V shaped face, a stem, guided in said supporting block above said switch lever and having an enlarged outer end, a spring arranged in said stem between said enlarged outer portion and its bearing in the supporting block, and a shifting blade, secured to said stem, and arranged to engage said V shaped face of the switch lever, substantially as set forth.

2. The combination with a supporting block of a switch lever, pivoted thereto and having projecting arms arranged on opposite sides of said pivot and having a central V shaped face between said arms, spring contacts, arranged on opposite sides of said lever in the path of the respective arms thereof said contacts being adapted to engage the respective arms of the switch lever at different points in the movement thereof, a stem, the outer end of which is squared and enlarged and is mounted in suitable bearings, and the inner end of which is contracted and has a bearing in said supporting block above said switch lever, a spring arranged in said stem between said enlarged outer portion and its bearing in the supporting block, and a shifting blade, secured to said stem and arranged to engage the V shaped face of said switch lever, substantially as set forth.

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

L. HENRY.
L. N. DALYSSON.

Witnesses:
C. B. GRAHAM,
W. N. BENEDICT.