G. B. THOMAS.

KNIFE SWITCH.

APPLICATION FILED MAY 26, 1908.

910,328.

Patented Jan. 19, 1909.

Fig. 1.

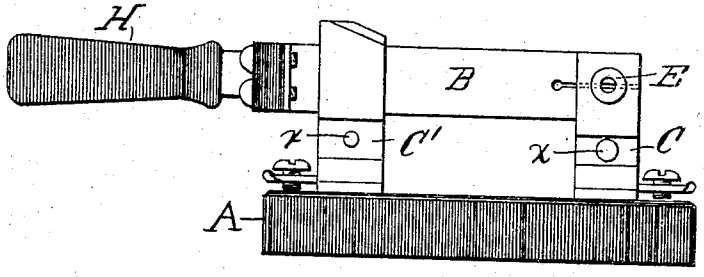


Fig. 2.

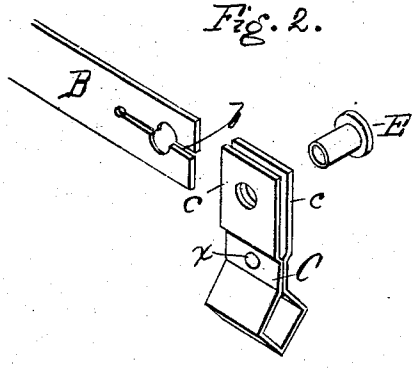


Fig. 3.

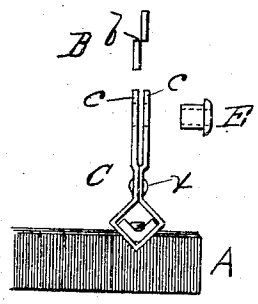


Fig. 5.

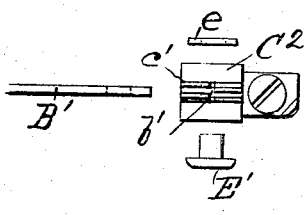


Fig. 4.

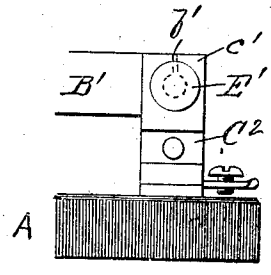
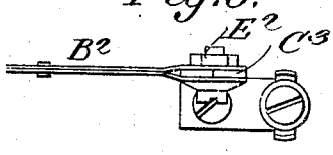


Fig. 6.



WITNESSES

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KNIFE-SWITCH.

No. 910,328. Specification of Letters Patent. Patented Jan. 19, 1909.

Application filed May 26, 1908. Serial No. 435,040.

To all whom it may concern:

Be it known that I, GEORGE B. THOMAS, a citizen of the United States of America, residing in the city of Bridgeport, in the county of Fairfield, in the State of Connecticut, have invented certain new and useful Improvements in Knife-Switches, of which the following is a specification.

The object of my invention is to simplify and cheapen the construction of electrical knife switches, in respect to the manner of mounting and hinging the blades, and this without diminishing their efficiency or durability.

In the accompanying drawings Figure 1 is a side elevation of a knife switch embodying my improvement; Fig. 2 is a perspective view showing the parts detached; Fig. 3 is an end view also showing the parts detached; Fig. 4 is a side elevation, showing a modification; Fig. 5 is a plan view showing the parts of this modified construction detached; Fig. 6 is a plan view of another modification.

Referring to Fig. 1, A is the insulating base, C is one of the hinging posts for a blade B of the switch, C^1 is a contact post, and H is the insulating handle secured to the free end or ends of the blade or blades B.

The blades and hinging and contact posts are made of sheet or strip metal and either the blade or the post will be made with two leaves or folds to embrace a single leaf on the other part.

In Figs. 1 to 5, I have shown, and I prefer to use, two-leaf posts and single leaf blades. Thus each post C or C^1 is formed of a flat strip of metal folded or bent up and riveted at *x* to have its free ends *c*, *c*, embrace the single leaf blade B.

In the usual construction, the hinging of the blade to the post C is effected by the use of a screw, a spring washer and two nuts, one of which is a lock nut. According to this invention I simplify the construction by splitting either the end of the blade or the outer end of the post and offsetting the split ends so as to constitute a spring friction between these parts.

In Figs. 1, 2 and 3, I have shown the end of the blade B as split at *b* and the split ends pressed out of line with each other or offset as shown in Figs. 2 and 3, so that when these offset parts are introduced between the free ends of the clip C, and means are applied to press the two parts of the clip together to press the offset split ends of the blade into line, there will be produced the desired spring frictional hold at the hinge.

In Figs. 2 and 3, I have shown a holding and hinging means as consisting of a simple eyelet E, which has its introduced end flanged or riveted over against the outer wall of the clip.

In the modification, Figs. 4 and 5, I have shown the clip C as having its free ends slit at b^1 and offset, the unslit but perforated end of the blade B^1 being introduced between the ends of the clip, and then a hinging means applied. By way of example, I have shown a rivet pin E^1 with washer *e*, over which the end of the pin is riveted.

In Fig. 6, I have shown a single blade binding post C^3, split and offset when unconfined, but embraced between the two leaves of a blade B^2 and held by a hinge pin E^2 with nut and washer.

I claim as my invention—

1. An electric knife switch having a blade and hinging post both of flat metal, and one having two leaves to embrace the end of the other, and one having a split offset end and means to press the parts together at the hinge, as and for the purpose described.

2. An electric knife switch having a blade with its hinging end split and offset, in combination with a hinging post in the form of a clip to embrace the split end of the blade, and means to press the offset parts of the blade between the parts of the clip.

3. An electric knife switch having a blade with its hinging end offset in combination with a hinging post in the form of a clip to embrace the offset end of the blade and a rivet passing through the ends of the clip and blade and pressing the offset parts of the blade between the parts of the clip.

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

GEORGE B. THOMAS.

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