Dec. 30, 1930. F. B. ADAM 1,786,727

ELECTRIC SWITCH

Filed Jan. 29, 1923

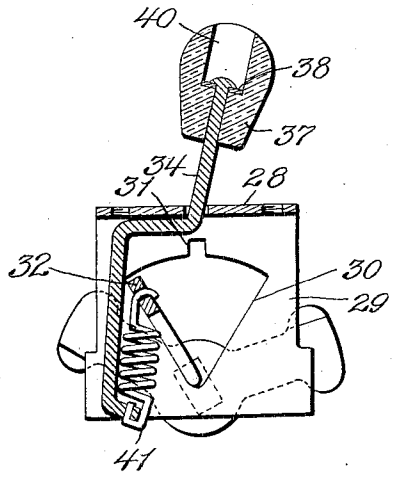


Fig. 1

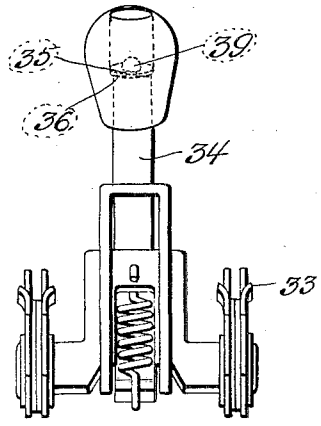


Fig. 2

INVENTOR

FREDERICK B. ADAM.

by Roy M. Eilers ATTORNEY.

Patented Dec. 30, 1930

1,786,727

UNITED STATES PATENT OFFICE

FREDERICK B. ADAM, OF ST. LOUIS, MISSOURI

ELECTRIC SWITCH

Application filed January 29, 1923. Serial No. 615,626.

My invention consists in the construction and arrangement of parts hereinafter described and particularly pointed out in the claims. In describing the various arrangements employed and shown in the drawings hereto attached and described in the specification, I do not limit my invention to the precise form or construction of apparatus shown, or the several parts thereto, inasmuch as various alterations may be made without changing the scope of my invention.

Among the objects of my invention may be mentioned the production of an economically manufactured and readily assembled switch in which all the live parts are concealed. The other objects and advantages of my invention will appear in the remainder of this specification.

In the drawings, Fig. 1 is a cross-sectional view of my switch and Fig. 2 is an end elevation of the same switch.

In the drawings, 28 is a frame, preferably made of metal, and preferably having a horizontal upper portion with sides extending downwardly therefrom. In each side 29 of the frame is an aperture 30, preferably V shaped. 31 is a notch in the sides 29 and being part of the aperture 30 for the purpose of permitting the switch bridge 32 to be inserted and removed from the frame 28. Attached to the switch bridge 32 are the switch blades 33. 34 is a switch lever having a reduced portion 35 at its upper extremity. 36 is a shoulder upon the switch lever. 37 is a handle. 38 is a washer adapted to fit upon a reduced portion 35 of the switch lever and rest against the shoulder 36. 39 shows a preferred form of attaching the handle to the switch lever, namely by riveting the end of the switch lever. It is obvious that any other means of attachment may be used. The aperture 40 in the handle 37 I may prefer to close with some suitable material. Attached to the lower extremity of the switch lever is a spring 41, the other end of this spring being connected to the switch bridge 32. By my arrangement of spring bridge and switch lever I am able to throw over the switch bridge from the off to the on position by the action of the spring under a stretching tension and from the on to the off position by starting it with the switch lever first and finishing the action by the stretching tension of the spring.

I claim:

1. A switch, comprising a frame having a top member and two sides, a bridge member supported by the frame, switch blades attached to the bridge, a switch lever bent to form a bearing portion in operative engagement with the top member of the frame, and extending between the sides of the frame, and a spring directly connecting the switch lever and the bridge member.

2. A switch, comprising a frame having a top portion and side portions, a bridge member supported in openings in the frame, a switch lever extending between the sides of the frame, and having a portion in bearing engagement with the inner side of the top portion, and a spring directly connecting the bridge member and the switch lever.

3. In a switch, a frame having an opening therein, a bridge member removably supported in said opening, a cross-member in said frame having a slot therein, a switch lever extending through said slot and bent to form a bearing portion engaging said cross-member adjacent said slot, and a spring directly connecting the bridge member and the switch lever.

4. A switch comprising a frame with sides, and a spacer element therebetween, a switch-blade carrying member supported by the frame, a one-piece switch operating member adapted for movement substantially in a plane, and having a portion bent in the plane of its movement for bearing engagement with said spacer, and an elastic connection between the said members.

5. A switch comprising a frame of one-piece construction including a pair of walls and a connecting piece therefor, a switch-blade carrying member, a switch operating lever element having a portion bent longitudinally of the frame to form a fulcrum where the lever element extends through the connecting piece, and adapted operatively and distantly to position the lever with re-

spect thereto, and an elastic connection between the member and the lever.

6. A switch comprising an apertured top, and sides, a switch blade carrying member, a switch operating lever having a portion bent into movable bearing relation with the apertured portion of said top, and a spring connecting the member and the lever.

7. A switch comprising a top having a slot therein, and sides, a bridge member carrying switch-blades, said bridge being supported by said frame, a one-piece switch-operating lever angularly bent to form a fulcrum portion adjacent said top, and extending through the slot therein, and a spring connecting the bridge member and the operating lever.

FRED. B. ADAM.