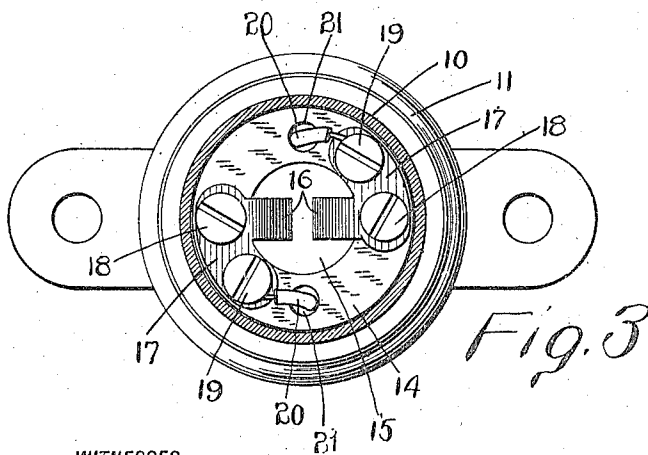
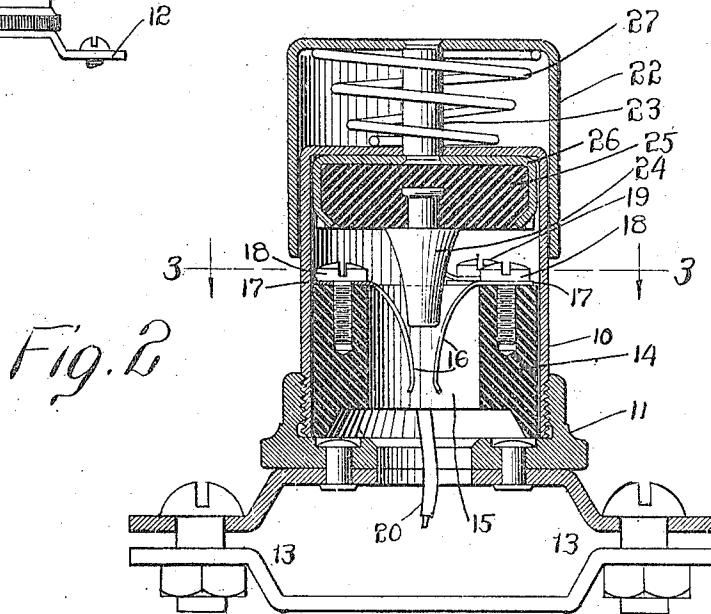
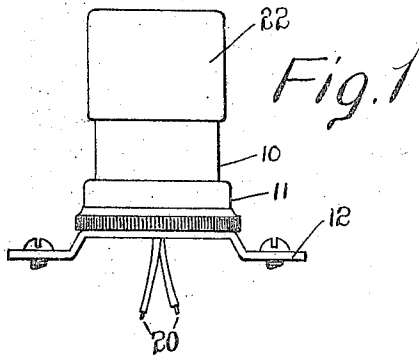


E. A. MANVILLE,
PUSH CONTACT SWITCH.
APPLICATION FILED MAR. 13, 1915.

1,196,569.

Patented Aug. 29, 1916.



WITNESSES:

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EDWIN A. MANVILLE, OF ANSONIA, CONNECTICUT, ASSIGNOR TO THE ANSONIA ELECTRICAL COMPANY, OF ANSONIA, CONNECTICUT, A CORPORATION OF CONNECTICUT.

PUSH CONTACT-SWITCH.

1,196,569.

Specification of Letters Patent.

Patented Aug. 29, 1916.

Application filed March 13, 1915. Serial No. 14,183.

To all whom it may concern:

Be it known that I, EDWIN A. MANVILLE, a citizen of the United States, residing at Ansonia, county of New Haven, State of Connecticut, have invented an Improvement in Push Contact-Switches, of which the following is a specification.

This invention has for its object to provide a sliding contact push switch adapted for general use and especially adapted for use upon automobiles, which shall be weatherproof and so constructed as to be easily found and more quickly operated than ordinary push pin or push button switches, so called.

With these and other objects in view I have devised the novel switch which I will now describe, referring to the accompanying drawing forming a part of this specification and using reference characters to indicate the several parts:—

Figure 1 is an elevation of my novel switch; Fig. 2 a longitudinal section on an enlarged scale, and Fig. 3 is a transverse section on the line 3—3 in Fig. 2, looking in the direction of the arrows.

10 denotes the case which is cup-shaped, the open end of the case having threaded engagement with a base 11. The switch 0 may be attached in place in any suitable manner, as by means of a bracket 12 which I have shown as riveted to the base, or if preferred an additional bracket may be used, the two brackets forming a clip 13, as in Fig. 2. Within the case is an insulating block 14 having an opening 15 within which are two downwardly and inwardly extending spring contact plates 16. These contact plates are shown as formed integral with plates 17 which are secured to the insulating block by screws 18 and carry binding screws 19 to which the electrical connections 20 are attached, holes 21 being provided in the insulating block through which the connections pass downward.

22 denotes a cap which is adapted to slide over and cover the closed end of the case.

This cap is carried by a stud 23 which passes centrally through the top of the case and carries a contact 24 which is set in insulating material, indicated by 25, in a holder 26 which is rigidly secured to the stud. A spring 27 bearing against the under side of the cap and the top of the case acts to normally hold the cap in the raised position, as shown in the drawing.

The operation will be obvious. The operator simply presses upon the cap, forcing it downward and placing contact 24 in sliding engagement with spring contact plates 16, which closes the circuit. The instant the pressure upon the cap is relieved, the spring raises the cap and carries the contact out of engagement with the contact plates.

Having thus described my invention I claim:

A switch of the character described comprising a casing closed at one end, a removable base closing the other end of the casing, an insulating block in said casing, resting on said base and having a central opening, spaced-apart contact plates secured to the block and extending into said opening, a cap adapted to slide over the case, a stud having one end attached to the cap, said stud being passed through the closed end of the casing, a block of insulating material connected with the inner end of the stud, a movable contact attached to said block and extending into the opening of the first mentioned insulating block in a position to pass between the contact plates, a spring bearing against the underside of the cap and also upon the closed end of said casing to hold the movable contact normally out of engagement with the contact plates, and means attached to said base for supporting said casing.

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

EDWIN A. MANVILLE.

Witnesses:

E. H. HUMPHREY,
LOUIS F. ANSCHUTZ.