

M. GUETT.
 ELECTRIC SWITCH.
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1,108,359.

Patented Aug. 25, 1914.

Fig. 1.

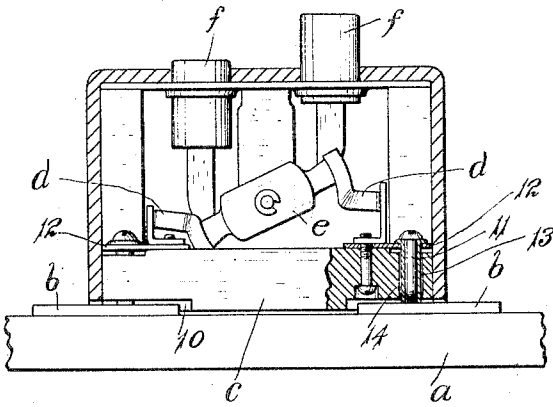


Fig. 2.

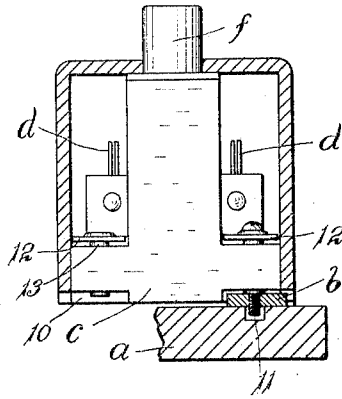
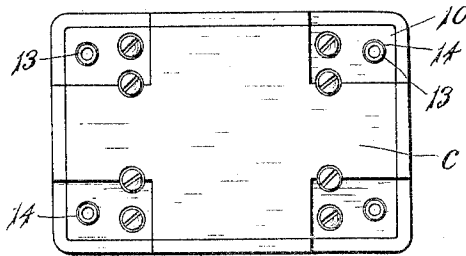


Fig. 3.



WITNESSES

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ELECTRIC SWITCH.

1,108,359.

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To all whom it may concern:

Be it known that I, MONROE GUETT, a citizen of the United States, and a resident of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Electric Switches, of which the following is a specification.

This invention relates to improved means for securing an electric switch to a panel board, and particularly to a novel means for establishing circuit connections between the switch terminals and the bus-bar terminals.

In the drawings Figure 1 is a side elevation of an embodiment of my invention, partly in section, Fig. 2 is an end view of the same partly in section, Fig. 3 is a bottom view.

In the drawings *a* denotes the panel board, *b, b'*, the bus-bar, *c* the switch bases, *d, d'*, the switch terminals, *e, e'*, the switch plate, and *f, f'*, the push buttons by which the switch plate is operated.

The details of the switch operating mechanism are not illustrated since they form no part of the invention, though it is to be understood that any desirable kind of electric switch, either of the push button or turn button type, may be utilized.

The underside of the base *c* is cut away, as at 10, to fit over the ends of the bus-bars, and the screws 11, passing through the base, provide means for securing the switch in place, and also for connecting the terminals *d* with the bus-bars.

In accordance with my invention, yieldingly supported plates 12, 12, are connected with the terminals *d, d'*, and carry sleeves 13, which extend through and are capable of movement in apertures 14 in the base, the ends of the sleeves projecting slightly below the bottom of the base and adapted to rest upon the bus-bars. The screws 11 pass through these sleeves and are threaded into the bus bars, and form a common means for securing the switch in place and for establishing an electrical connection between the bus-bars and the switch terminals *d*.

In the process of manufacture of the insulating bases on which the switch mechanism is supported they are very apt to be warped so that they do not fit solidly onto the panel board, and if the screws have a bearing directly on the base it is possible to subject it to such a strain in securing the

switch in place as will crack the base. By providing the yieldingly mounted plates it is possible to firmly secure the switch in place without danger of cracking the base, and with the use of the sleeves which are brought into contact with the bus-bars, a suitable electrical connection is insured.

As hereinbefore set forth any type of switch may be used, my invention being concerned primarily with the novel means of securing that switch in position.

I claim as my invention:

1. The combination with a panel board and coöperatively-arranged bus-bar terminals thereon, of a switch base adapted to fit over said terminals, switch terminals carried by the base, yielding members electrically connected with the switch terminals, and means passing through said yielding members and engaging said bus-bars to secure the base in position and establish electrical connection between the bus-bars and switch terminals.

2. The combination with a panel board and the bus-bar terminal coöperatively arranged thereon, of a switch base having parts overlying said terminals, switch terminals mounted on the base, a yielding member mounted on the base, and electrically connected with the switch terminals, sleeves carried by said yielding members and extending through the base into contact with the bus-bars, and screws extending through said sleeves and having threaded engagement with said bus-bars.

3. The combination with a panel board and the bus-bar terminals coöperatively arranged thereon, of an insulating base overlying in part said terminals, switch terminals mounted on the base, plates secured to the bases of said terminals, recesses in said base under the ends of said plates, sleeves mounted in said plates and extending through apertures in the base into contact with the bus-bars, and screws extending through said sleeves and having threaded engagement with the bus-bars.

4. The combination with a panel board and the bus-bar terminals coöperatively arranged thereon, of a switch base overlying said terminals and apertured opposite thereto, switch terminals mounted on the base, sleeves extending through apertures in the base to contact with said bus-bars, said sleeves being movable longitudinally in the

apertures, means for attaching said sleeves to the bus-bars, and a yielding connection between said sleeves and switch terminals.

5 5. The combination with a pair of spaced circuit terminals, of a switch base, switch terminals carried thereby, electrical conductors connected at one end with said terminals, the opposite ends thereof being provided with yielding parts, and means pass-

ing through said yielding parts and engaging said circuit terminals to secure said base in position and establish electrical connection between said circuit terminals and switch terminals. 10

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Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."