

M. GUETT.
ELECTRIC SWITCH.
APPLICATION FILED JAN. 2, 1909.

1,054,110.

Patented Feb. 25, 1913.

Fig. 1.

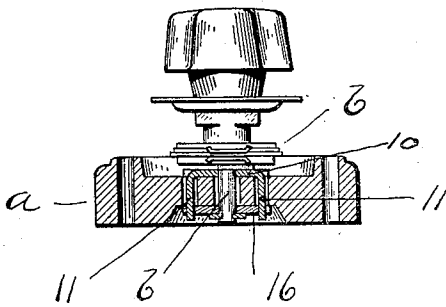


Fig. 2.

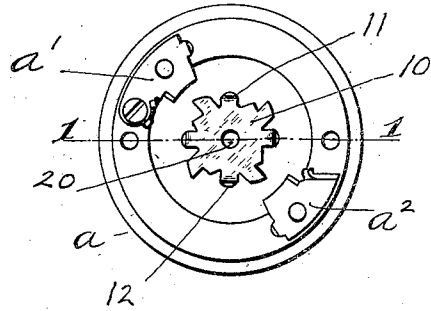


Fig. 3.

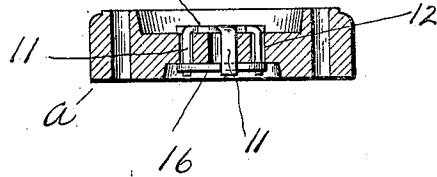
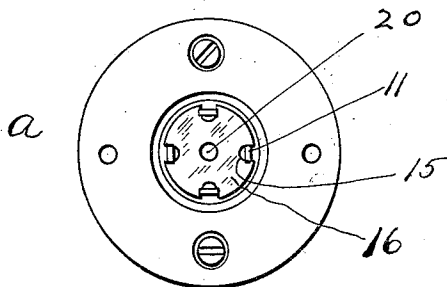


Fig. 4.



WITNESSES:

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ELECTRIC SWITCH.

1,054,110.

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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.

The object of my invention is to improve the construction of electric switches of the rotary type, more particularly with a view to decreasing the cost of construction of a device of this sort.

The invention is illustrated in the drawings in which—

Figure 1 is a side elevation with some of the parts shown in central vertical section. Fig. 2 is a plan view of the base with the spindle removed. Fig. 3 is a sectional view of the base on the line 1—1 of Fig. 2. Fig. 4 is a bottom view of the base.

Referring to the drawings a is the base, a' a^2 the stationary contacts mounted on the base, b the spindle carrying the movable contact member b' . The spindle also carries the locking and unlocking mechanism which coöperates with the stop-plate secured to the base and by means of which the movable contacts are held against movement during the initial movement of the turn-button in order to store up enough power in the spring to move the movable contacts with a snap action. The spindle has its bearing in the base-piece and the object of my invention is to provide a novel and simple manner of providing a mounting for the spindle.

10 is the stop-plate mounted on the base and having depending fingers 11 which pass through apertures 12 in the base and hold the stop-plate against rotation. These fingers extend entirely through the base and have a drive fit in the notches 15 in a washer 16 located underneath the base. The stop-plate and washer are centrally pierced as at 20 to give a bearing for the spindle at the upper and lower sides of the base, the hole through the base being larger than the spindle so that the spindle contacts only with the stop-plate and the washer. A clamp of the usual form engages the notch

in the end of the spindle below the washer to hold the spindle in place. The washer 16 preferably is located in a recess in the under side of the base, which recess is of greater depth than the thickness of the washer so that the fingers on the stop-plate can be long enough to accommodate the variations in the thickness of the base-piece without projecting below the plane of the bottom of the base.

It is essential to the best construction of switches of this type that the spindle shall have a firm bearing. Such a bearing cannot be provided in the base itself as the material from which the bases are usually made is not suitable for this purpose. I am aware that metallic bearings for the spindle have been provided, but of a more expensive and complicated construction than that herein shown.

It is understood that the structure illustrated and described is susceptible of modifications and changes within the scope of the appended claims.

I claim:—

1. In an electric snap switch a base having an aperture therethrough, plates located against the upper and under sides of said base and overlying the aperture therethrough, means formed integrally with one of said plates near its edges and extending through said base to engage the other plate to hold it in position and a spindle extending through said base and supported by said plates.

2. An electric switch comprising a base, stationary contacts thereon, a stop-plate located on the upper surface of said base and having fingers extending through said base, a washer located on the under side of said base and having notches engaging said fingers, said stop-plate and washer being centrally pierced, a spindle having its lower end located in the bearing formed by said stop-plate and washer, and movable contacts and a locking member mounted on said spindle, the latter adapted to coöperate with said stop-plate.

3. In an electric snap switch an insulating base having an aperture therethrough, bear-

ing plates located against the upper and under sides of said base and overlying the aperture, means extending through said base for mechanically uniting said bearing
5 plates, a spindle extending through the aperture in the base but out of contact therewith and supported in bearings in said plates, and a contact member mounted on the spindle but insulated therefrom.

MONROE GUETT.

Witnesses:

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