

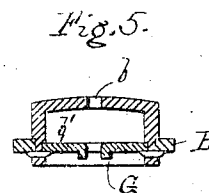
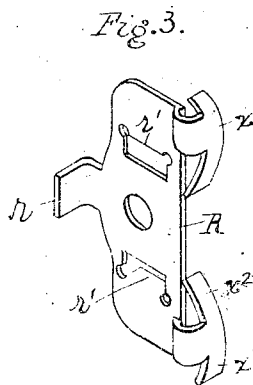
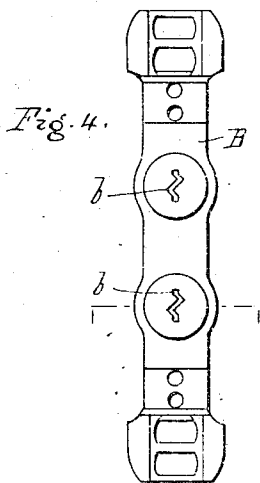
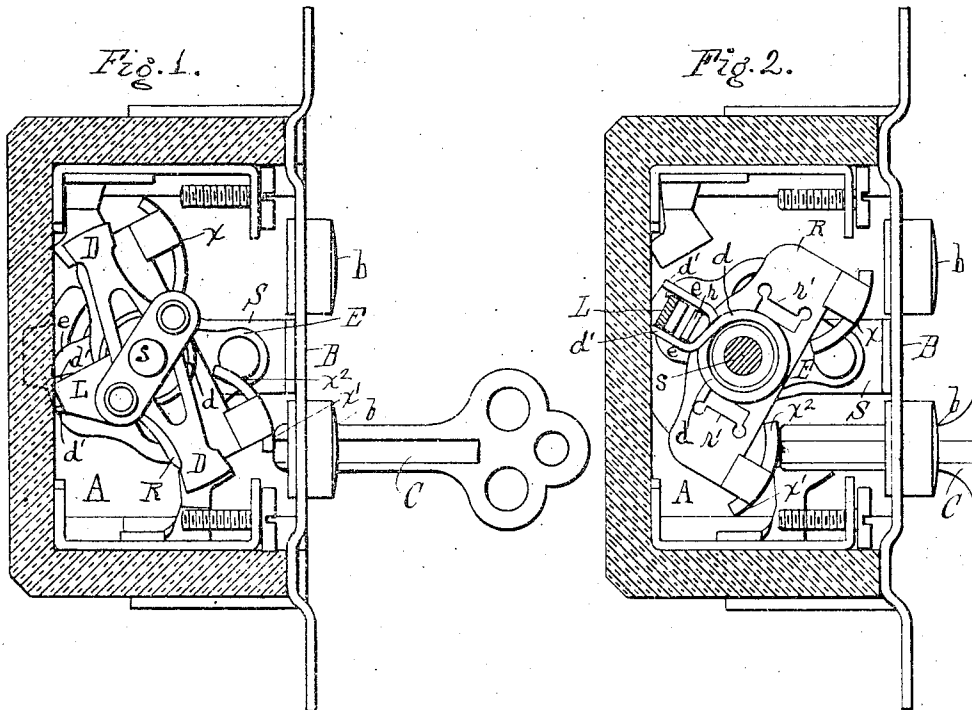
C. E. ANDERSON.

PUSH SWITCH.

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955,035.

Patented Apr. 12, 1910.



WITNESSES:

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PUSH-SWITCH.

955,035.

Specification of Letters Patent.

Patented Apr. 12, 1910.

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To all whom it may concern:

Be it known that I, CARL E. ANDERSON, a citizen of the United States of America, and residing in the city of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a certain new and useful Improvement in Push-Switches, of which the following is a specification.

My invention relates to push switches and particularly push switches of the key type, the object of my invention being to simplify and improve the switch mechanism in the particulars pointed out.

In the accompanying drawings, Figure 1 is a vertical section through a push switch of the key type to which my invention has been applied; Fig. 2 is a similar view of the switch the section being taken just behind the switch piece and the mechanism being shown in a different position; Fig. 3 is a perspective view of my new rocker; Fig. 4 is a plan of the metal cross plate; and Fig. 5 is a cross section of the latter.

In its main features the present switch is of the common type comprising an insulating well A across the top of which is spanned the cross plate B provided with key slots b , b , through which the key C is inserted. Beneath the cross plate B lies the switch mechanism supported upon the standard S carrying spindle s on which is pivoted the switch piece D which is subjected to the action of the spring d , through the stop lug L which is rigid with relation to said switch piece and which is embraced between the ends d^1 , d^1 , of the spring d . The rocker R has as usual a lug r which is also embraced between the ends d^1 , d^1 of the spring while the lugs r^1 engage and temporarily detain the pivoted catch E between the fingers e , e , of which the stop lug L is held. Upon oscillation of the rocker R the spring d is tensioned and the catch E then freed to secure a sudden snap of the switch piece D into or out of contact with the terminals T in the customary way.

Heretofore it has been customary to impart the oscillating movement to the rocker R through links pivoted at their lower ends thereto and subjected at their upper ends to the action of the inserted key C. I now propose to eliminate this link with its necessary guide sleeve, substituting therefor a bearing surface x on the rocker with which the in-

serted key makes sliding contact during its actuation of the rocker. Thus in Fig. 1 it is seen that the key bears against the end x^1 while by the time the key has reached the end of its inward stroke, Fig. 2, it has traveled across the bearing surface to the other end x^2 . Obviously it is immaterial how this bearing surface is secured to the rocker R, but I prefer to form it integrally therewith as a flange struck therefrom and angled over. It is also desirable that this flange be given a curved surface, but this is not believed to be essential.

In order to prevent the tendency of the key to incline from the perpendicular during the actuation of the rocker, I provide a guide G beneath the key slot b which serves to keep the key in perpendicular position. This guide may be formed in any desired way, but I prefer to form it as a slotted disk at the lower end of each of the key buttons b^1 and secured therewith to the cross plate B.

Obviously the invention may be embodied in structures different from that shown, and I do not limit myself to the details of the latter, but

I claim as my invention:—

1. A switch mechanism comprising a switch member, a rocker and means controlled by the latter for imparting a sudden oscillation to the former, in combination with flanges on said rocker forming sliding bearings for an actuating push member.

2. In a push switch mechanism, a rocker provided with flanges adapted to form sliding bearings for a push member, substantially as described.

3. In a push switch mechanism, a rocker having integral lugs angled over and curved to form sliding bearings for a push member, substantially as described.

4. In a key switch mechanism, a key guide comprising a hollow button with its upper face slotted to receive the key and a diaphragm spaced below the upper face of said button and slotted to form a guide for the key, substantially as described.

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

CARL E. ANDERSON.

Witnesses:

G. W. GOODRIDGE,
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