

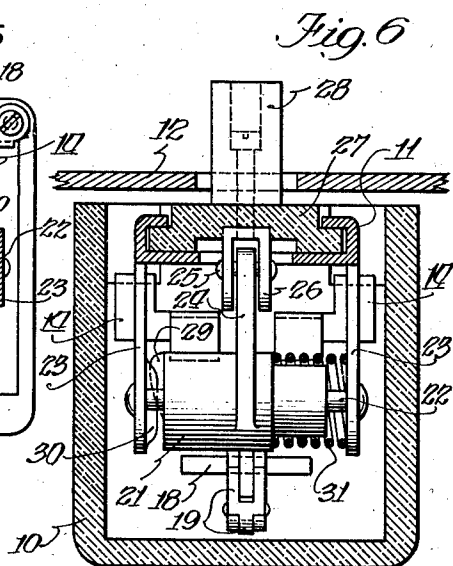
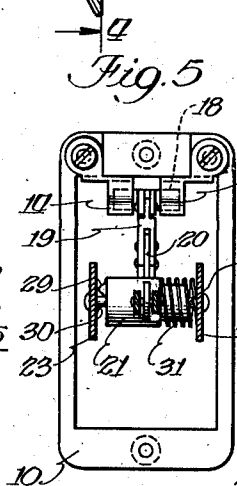
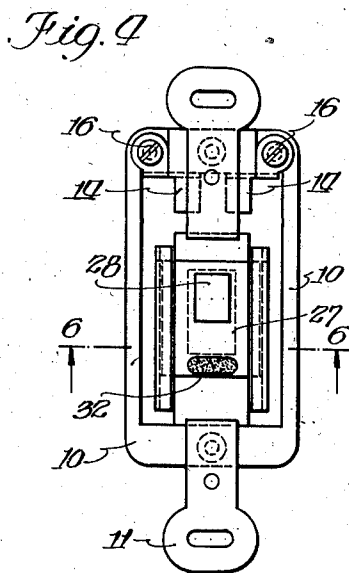
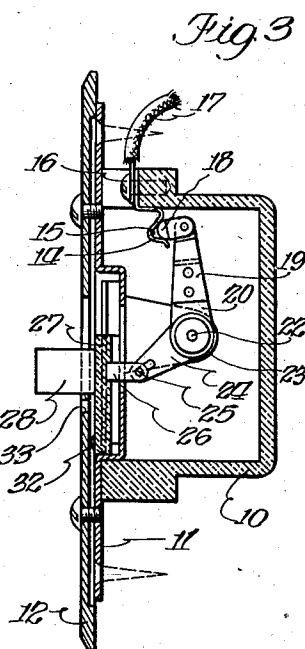
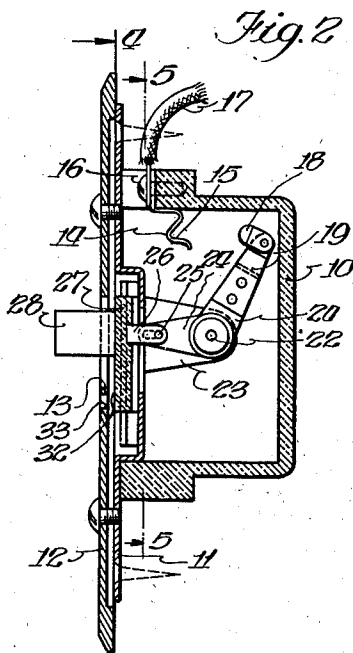
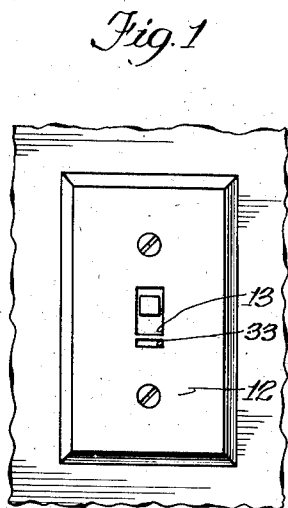
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A. D. CAMMISANO

2,280,215

ELECTRIC SWITCH

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Inventor:
Arnold D. Cammisano
By: Brayton W. Richards
Attorney.

UNITED STATES PATENT OFFICE

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ELECTRIC SWITCH

Arnold D. Cammisano, Chicago, Ill., assignor of
one-third to Solly Botansky, Chicago, Ill.

Application October 30, 1940, Serial No. 363,469

2 Claims. (Cl. 200—167)

The invention relates to improvements in electric switches especially adapted for use in dwellings, the primary object of the invention being the provision of an improved construction of this character which is so constructed and arranged as to eliminate largely sparking or arcing when the circuit is made or broken; which is positive and certain in action; and which is provided with a luminous spot whereby it may be readily found in the dark.

Other objects will appear hereinafter.

The invention consists of the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawing forming a part of this specification, and in which—

Fig. 1 is a front view of a switch embodying the invention;

Fig. 2 an enlarged vertical section thereof showing the switch parts in their off positions;

Fig. 3 a section similar to Fig. 2 but showing the switch parts in their on positions;

Fig. 4 a section taken substantially on line 4—4 of Fig. 2;

Fig. 5 a section taken substantially on line 5—5 of Fig. 2; and

Fig. 6 an enlarged section taken substantially on line 6—6 of Fig. 4.

The embodiment of the invention illustrated in the drawing comprises a wall box 10 having a cover plate 11 and cooperating with a wall plate 12 and whereby the wall box 10 may be mounted and covered in the wall of a dwelling in the usual way. As shown, the wall plate 12 is provided with the usual slot 13 for accommodation of the switch operating button or post to be presently described.

Electric terminals 14 in the form of spring metallic strips are bent as indicated to form substantially V-shaped sockets 15 and are secured in place in the box 10 by means of binding screws 16 so as to bring the sockets 15 in transverse registration to each other as indicated. The terminals 14 are insulated from the box 10 and the usual lead wires 17 are connected thereto by means of the binding screws 16, whereby said terminals will be supplied with electric current as will be readily understood.

A switch bar 18 in the form of a metallic conductor is secured at the outer ends of strips of insulation material 19 forming the outer part of a rocker arm 20 carried by a central hub 21 which is mounted for both pivotal and lateral movement on a pivot pin 22 extending trans-

versely between supporting ears 23 on the cover plate 11. The hub 21 also carries an operating rocker arm 24 having a slot and pin connection 25 with ears 26 formed on the inner side of a slide 27 slidably mounted as indicated in the cover plate 11. The slide 27 carries an operating post or button 28 which projects outwardly through the slot 13 in the wall plate 12. By this arrangement the switch bar 18 may be readily shifted into and out of engagement with the sockets 15 of the terminals 14 when desired.

The hub 21 carries at one end a projecting bead or knob 29 cooperating with a corresponding bead or knob 30 on the inner face of one of the ears 23, and a compression spring 31 serves to press said knobs into cooperative relationship to serve as a spring detent for positively holding the switch bar 18 in either its on or off positions as will be readily understood.

Arranged at the bottom of the slide 27 is a luminous spot 32 of material which will be luminous in the dark and a corresponding opening 33 is provided in the wall plate 12 to register with said luminous spot 32 when the operating button 28 is in its off position, and whereby the luminous spot 32 will be visible under such circumstances and facilitate the finding of the switch in the dark while protecting said spot against contact with the fingers of children or careless persons.

By this arrangement an electric switch construction is provided especially adapted for use in dwellings in which sparking or arcing will be practically eliminated; in which the action of the switch is positive and certain; in which the switch is releasably but positively locked in both its on and off positions and in which it may be readily found in the dark. The specific form and arrangement of the parts is a simple and effective one for the purpose.

While I have illustrated and described the preferred form of construction for carrying the invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I therefore do not wish to be limited to the precise details disclosed but desire to avail myself of such variations and modifications as fall within the scope of the appended claims.

I claim:

1. An electric switch comprising a support; a hub mounted in said support for pivotal and lateral movement; an operating rocker arm carried by said hub; a slide mounted on said support and having a slot and pin connection with said operating arm permitting of relative lateral move-

ments; a projecting knob on one end of said hub; a corresponding knob on said support cooperating therewith; a compression spring serving to press said knobs into cooperative relationship so as to serve as spring detents for yieldingly holding said hub in either of its adjusted positions; a switch rocker arm on said hub; a transverse insulated switch bar carried by said switch arm; and a pair of switch terminals arranged on opposite sides of the path of said switch bar so as to be electrically connected thereby when said switch arm is swung into position between said terminals.

2. An electric switch comprising a support; a rocking member mounted for axial movement in 15

said support; a detent connection with the support arranged to engage and disengage through said axial movement to hold said member in its operative and inoperative positions; a spring arranged to hold said detent connections yieldingly in engagement with each other; an operating arm on said member; a slide having a slot and pin connection with said operating arm and arranged to swing said arm to rock said member; a rocker arm on said member carrying an insulated switch bar; and a pair of spaced switch terminals arranged in the path of said switch bar so as to be electrically connected thereby when swung into contact therewith.

ARNOLD D. CAMMISANO.