S. F. BRIGGS.

PADLOCK SWITCH.

APPLICATION FILED SEPT. 13, 1915.

1,220,174. Patented Mar. 27, 1917.

FIG. 1.

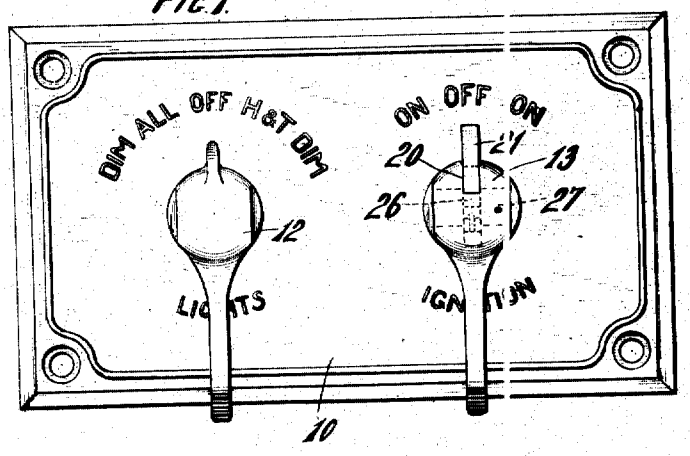


FIG. 2.

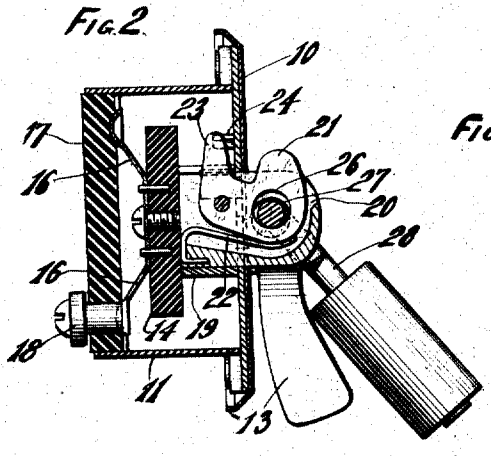


FIG. 3.

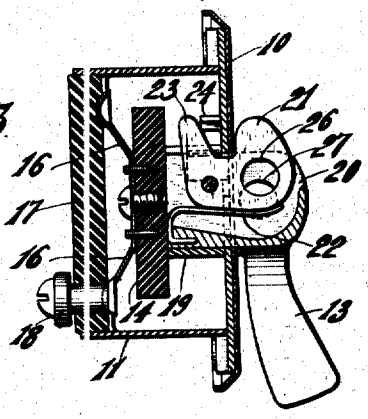
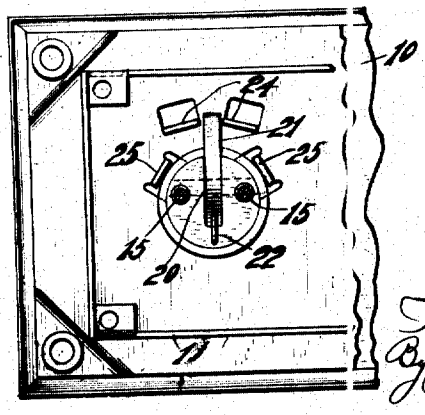


FIG. 4.



WITNESSES.

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PADLOCK-SWITCH.

1,220,174. Specification of Letters Patent. Patented Mar. 27, 1917.

Application filed September 13, 1915. Serial No. 50,140.

To all whom it may concern:

Be it known that I, STEPHEN F. BRIGGS, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Padlock-Switches, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

This invention has for its object to provide a switch for controlling an ignition circuit for automobile gas engines and the like, which may be secured by a padlock against unauthorized operation.

With the above and other objects in view the invention consists in the padlock switch as herein claimed and all equivalents.

Referring to the accompanying drawings, in which like characters of reference indicate the same parts in the different views:

Figure 1 is a front view of a padlock switch constructed in accordance with this invention;

Fig. 2 is a transverse sectional view thereof with the switch member locked in position;

Fig. 3 is a similar view thereof with the switch member unlocked; and,

Fig. 4 is a rear view of the switch with parts removed.

In these drawings 10 indicates a front plate having a switch box 11 secured to the back thereof, and usually containing a lighting switch member 12 and an ignition switch member 13, the latter of which is provided with the padlock feature of this invention. The switch member 13 consists of a plug or cylindrical body member passing through an opening in the front plate and a downwardly projecting wing or arm forming a handle by means of which the switch member may be turned. An insulating disk 14 is secured to the inner end of the switch member 13 by a pair of screws 15 and this insulating disk bears a set of spring contact arms 16 which fit in recesses or depressions in the surface of an insulating backplate 17 which closes the rear end of the switch box 11. Switch contacts 18 form binding posts in the insulating backplate 17 and are positioned to be engaged by the ends of the contact arms 16 for controlling the electrical circuits with which they are connected. A loose sleeve 19 surrounds the cylindrical portion of the switch member 13 between the insulating disk 14 and the back of the front plate, and serves to properly position the parts under the pressure of the spring contact arms 16. A slot or recess 20 is formed in the cylindrical portion of the switch member 13, and in it is pivotally mounted a dog 21 which is spring pressed to the position shown in Fig. 3 by a spring 22 seated in the end of the switch member and bearing on the dog. In this position of the dog it does not interfere with the turning of the switch member, but when it is depressed against the action of its spring, by pushing inwardly on the projecting nose thereof, an arm 23 at the inner end of the dog moves between a pair of locking lugs 24 or between one of such locking lugs and one of a pair of stop lugs 25, according to the position of the switch member at the time, so as to lock the switch against turning. The lugs 24 and 25 are bent up from the front of the switch box and form stationary locking means between which the arm of the dog is confined when the nose of the dog is depressed for locking the switch in any of its operative positions. For holding the dog in its locking position there is an opening 26 in it which registers with an opening 27 in the switch member 13 only when the dog is depressed to such locking position, and when these openings register the hook portion of a padlock 28 may be passed therethrough and locked so as to prevent the return of the dog to its position of disengagement with the locking lugs. When the padlock is removed, however, the dog is restored to its original position by the pressure of spring 22 so that the switch is free to be turned.

As applied to an ignition switch the padlock feature of the present invention constitutes an efficient means for locking an automobile against theft or unauthorized use.

What I claim as new and desire to secure by Letters Patent is:

1. An electric switch, comprising a casing, a switch member rotatably mounted therein, a dog pivotally mounted on the switch member, a stop on the casing engaged by the dog, and a projection on the dog by which it may be swung, there being openings in the dog and in the switch member which register in the position of the dog in which it en-

gages the stop, said registering openings being adapted to receive a padlock for locking the switch member against movement.

2. An electric switch, comprising a casing, a switch member pivotally mounted therein and provided with a projecting handle, a spring pressed dog pivotally mounted on the switch member and provided with a portion projecting from the switch member, a stop on the casing engaged by the dog in one position thereof, the projecting portion of the dog being adapted to be depressed within the switch member, and openings in the dog and the switch member registering in such depressed position of the dog and adapted to receive a padlock.

3. A padlock switch, comprising a casing, a switch member pivotally mounted in the casing, an insulating disk secured to the switch member, spring contact arms carried by the disk, an insulating backplate for the casing, contacts thereon engaged by the contact arms, a sleeve surrounding the switch member and confined between the insulating disk and the front plate of the casing, there being a slot in the switch member and the sleeve, a dog pivotally mounted in said slot, a spring bearing on the dog, an arm on the dog, and stationary lugs on the casing adapted to be engaged by the arm of the dog when the dog is moved against the action of its spring, said dog having a nose portion projecting from the slot of the switch member and adapted to be depressed for moving the arm in its locking position, there being openings in the dog and in the switch member which register in such depressed locking position of the dog to receive the hook portion of a padlock for locking the switch member against movement.

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

STEPHEN F. BRIGGS.

Witnesses:

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