

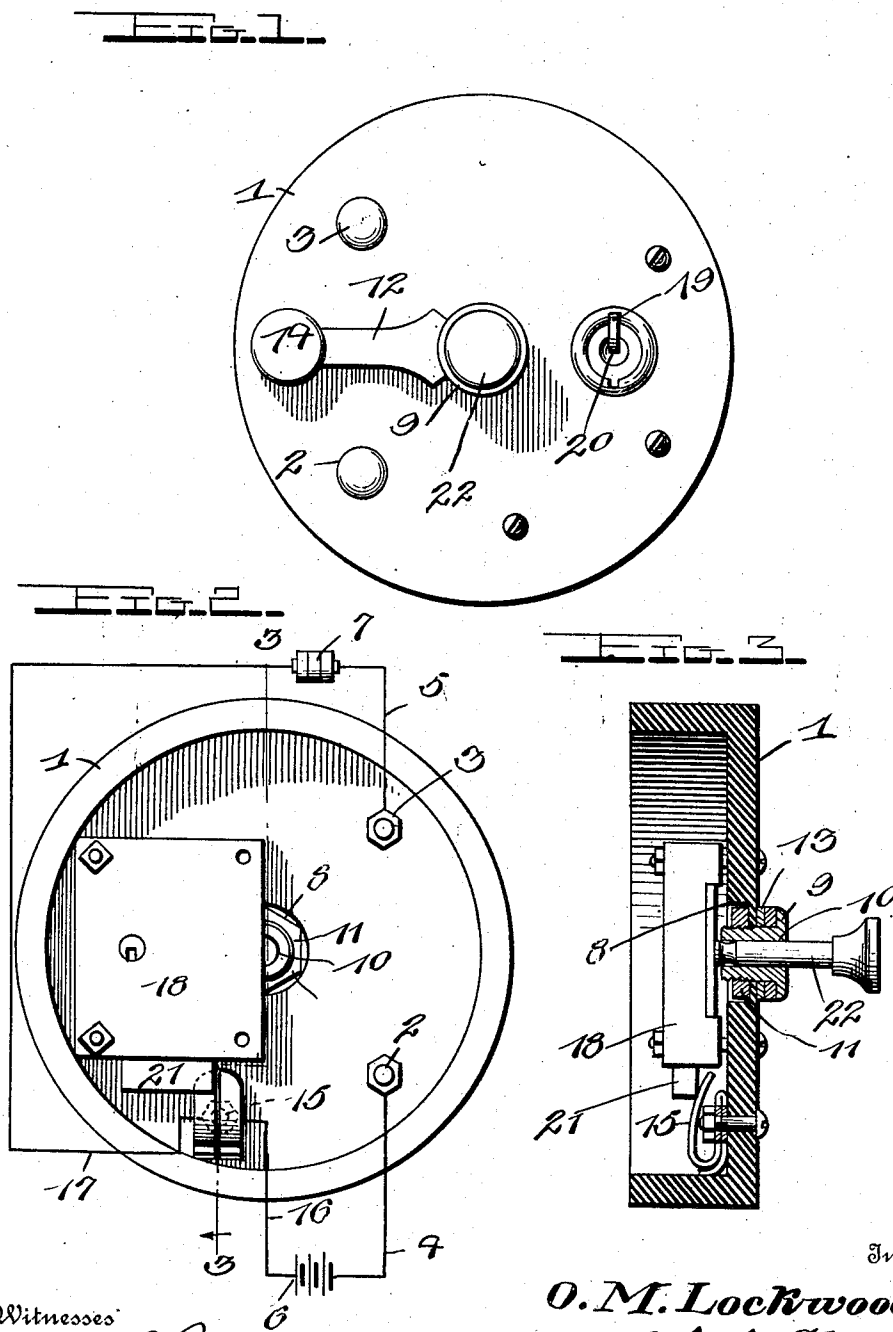
O. M. LOCKWOOD & A. A. STOUT.

SWITCH LOCK.

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1,057,749.

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ORA M. LOCKWOOD AND ADISON A. STOUT, OF ROCHESTER, NEW YORK.

SWITCH-LOCK.

1,057,749.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, ORA M. LOCKWOOD and ADISON A. STOUT, citizens of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Switch-Locks, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to new and useful improvements in key operated locking switches, the object of the invention being to provide an improved locking attachment for the switch of electric igniting apparatus
15 such as used on automobiles, launches and elsewhere, in connection with explosive engines.

Heretofore, automobile vehicles of most kinds have been provided with electrical switches either for opening or closing the spark circuit. These switches have usually been of a type such that the removal of a simple cylindrical switch plug is sufficient to break the circuit. Inasmuch as a conducting substance of proper size may be inserted in the switch it often occurs that such vehicles are operated without the knowledge of the owners, by those unauthorized to use the same, and such vehicles are often stolen
30 owing to the facility with which such switches can be operated by unauthorized persons.

A further object of the invention is to provide a switch of such construction as to afford in every instance a broad and perfect contact and which is at all times positively protected and locked from unauthorized persons.

A still further object of the invention is to provide a switch of the above character which will possess advantages in points of efficiency and durability, is inexpensive to manufacture and at the same time is simple in construction and operation.

45 With the above and other objects in view, the invention consists in the novel features of construction and the combination and arrangement of parts hereinafter more fully described, pointed out in the claim, and shown in the accompanying drawings in which,
50

Figure 1 is an elevation of our improved key operated switch. Fig. 2 is a rear elevation. Fig. 3 is a sectional view on the line 3-3 of Fig. 2.

Referring more particularly to the drawings, 1 indicates a cylindrical casing which is formed of rubber or other suitable insulating material and which is adapted to support the several parts of the switch and lock attachment. The numerals 2 and 3 indicate metallic contacts secured to the face of the block and forming terminals of the lead wires 4 and 5 which are connected to the batteries 6 and the magneto 7. The casing 1 is provided with a centrally arranged opening 8 within which is arranged the post 9, provided with an opening 10, and is held securely in place by means of the nut 11 threaded on the inner end thereof. The inner end of the switch lever 12 is mounted upon the post 9 and arranged between the head of the post and the washer 13, the outer end of the lever being provided with a suitable finger hold 14 so that the same may be easily swung to engage either of the contacts 2 and 3.

Arranged within the casing at one side thereof is a third contact 15 which is connected by the lead wires 16 and 17 to the batteries and the magneto respectively. A suitable lock casing 18 formed of any suitable contact material is arranged within the casing having one of its longitudinal edges disposed in alinement with the opening 10 in the post 9. The key 19 for operating the lock, fits in the key seat 20 and is adapted to be rotated to project the bolt 21 and engage the same with the contact 15.

In connecting either of the contacts 2 and 3 with the contact 15 to complete a circuit, the plug 22 is inserted within the opening 10 of the post 9 until the end of the same engages with the lock casing 18, the lever 12 is then turned until the same engages with either of the contacts 2 and 3, and in order to complete the circuit, the key 19 is rotated within the seat 20 projecting the bolt 21 to engage the same with the contact 15 and in this manner either of the contacts 2 and 3 can be readily connected with either the batteries 6 or the magneto 7 respectively.

From the above description taken in connection with the drawings, it will be readily apparent that a through connection between the contacts 2 and 3 and the batteries and magneto 6 and 7 respectively cannot be completed without the use of the key 19 which will be in possession of the owner at all

times, and it will be seen that the switch cannot be operated by unauthorized persons.

What we claim is:—

5 An electric switch, comprising a casing provided with a face having an opening extending therethrough, terminals carried by the casing, a switch lever movable around said opening as an axis and engageable with said terminals, a contact member mounted
10 in the casing and designed for electrical connection to said terminals, a lock casing fastened within the first named casing and formed of conducting material overlapping the inner end of said opening, whereby a
15 plug inserted in through said opening will

electrically connect the switch lever with the lock casing, and a key-operated bolt carried by the lock casing and adapted to be projected therefrom into engagement with the contact member, as and for the purpose set forth. 20

In testimony whereof we hereunto affix our signatures in the presence of two witnesses.

ORA M. LOCKWOOD.
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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."