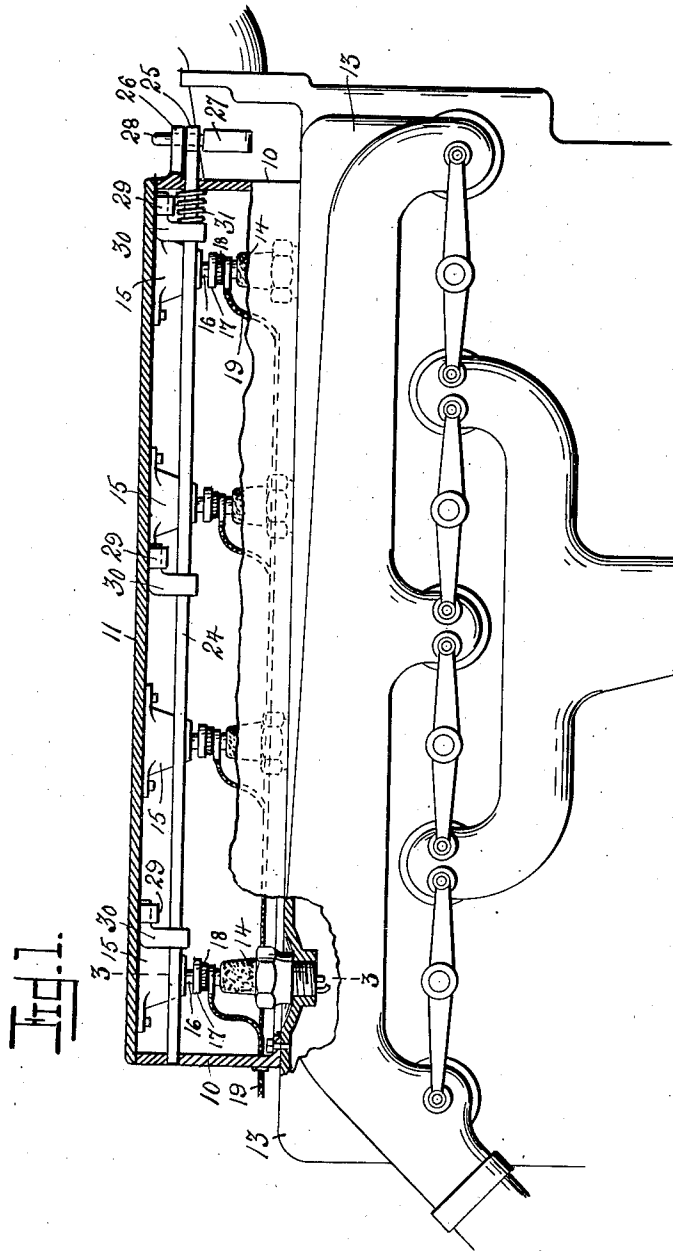


G. H. TRIPP.
SPARKER CUTTING OUT AND LOCKING DEVICE.
APPLICATION FILED MAY 13, 1920.

1,359,291.

Patented Nov. 16, 1920.
2 SHEETS—SHEET 1.



Inventor

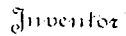
GUY H. TRIPP,

By

Geo. Kimmel
Attorney

1,359,291.

2 SHEETS—SHEET 2.



GUY H. TRIPP,

विषय

Geo. F. Kimmel
Attorney

Attorney

UNITED STATES PATENT OFFICE.

GUY H. TRIPP, OF MUSKEGON HEIGHTS, MICHIGAN.

SPARKER CUTTING-OUT AND LOCKING DEVICE.

1,359,291.

Specification of Letters Patent.

Patented Nov. 16, 1920.

Application filed May 13, 1920. Serial No. 381,020.

To all whom it may concern:

Be it known that I, GUY H. TRIPP, a citizen of the United States, residing at Muskegon Heights, in the county of Muskegon and State of Michigan, have invented certain new and useful Improvements in Sparker Cutting-Out and Locking Devices, of which the following is a specification.

10 This invention relates to attachments to motor driven vehicles for protecting the vehicle from unauthorized use in the absence of the owner, and has for one of its objects to provide a simply constructed device
15 whereby the sparker plugs are short circuited and the short circuiting means locked from access by unauthorized persons.

With these and other objects in view the invention consists in certain novel features
20 of construction as hereinafter shown and described and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention.

25 Figure 1 is a side elevation of a portion of an internal combustion engine casing, partly in section, with the improvement applied.

Fig. 2 is an end elevation enlarged, of the
30 parts shown in Fig. 1.

Fig. 3 is a transverse section enlarged on the line 3—3 of Fig. 1.

The improved attachment includes a cover or casing represented as a whole at
35 10 and having a closure 11 hingedly united thereto at 12. The casing 10 is attached to or formed integral with the upper part of the engine casing, a portion of which is indicated at 13, and covers and incloses the
40 sparker plugs, represented conventionally at 14.

Attached to the under face of the closure 11, are a plurality of bracket devices 15 one for each sparker plug.

45 Slidable in each bracket is a plunger 16 each having a head 17 adapted to engage the head 18 of the adjacent clamp screw whereby the conductor element 19 is secured to the plug.

50 Each plunger is spring pressed as shown at 20, and is provided with a washer 21 upon which the spring bears.

The plungers are so proportioned that when the member 11 is in closed position,
55 the several heads 17 of the plungers will contact respectively with the several heads

18 of the sparker plugs and thus short circuit them and prevent them from functioning.

Located at one point on the front wall of
60 the casing 10 is a socket 22 to support a spring pressed plunger 23 operating to hold the closure 11 sufficiently elevated to maintain the plungers 16 and 17 normally free from the clamp screw heads 18 of the
65 sparker plugs as shown by dotted lines in Fig. 3.

Slidably supported in the ends of the casing 10 and extending entirely through the casing is a locking rod 24, the rod having a
70 perforated enlargement 25 at one end externally of the casing, to coact with a perforated lug 26 extending from the casing, to receive a suitable lock, indicated conventionally at 27 the "hasp" 28 of the lock
75 serving as a bolt to hold the part 24—25 in its outward position.

Depending from the under face of the closure 11 at suitable intervals are perforated lugs 29, and attached to the rod 24 at
80 corresponding intervals are catch devices 30 adapted to enter the perforations of the lugs and thus lock the member 11 in closed position when the rod 24 is drawn outwardly and the lock 27 applied.

85 A spring 31 is disposed between one of the members 30 and the adjacent end of the casing 10, and operates to hold the rod 24 in inoperative position with the pins 30 out of engagement with the lugs 29 and the
90 cover 11 released, so that it can be elevated into the position shown by dotted lines in Fig. 3 by the action of the spring pressed bolt 23.

Any required number of the lugs 29 and
95 pins 30 may be employed, but generally three will be sufficient, as shown.

By this simple arrangement, when the lock 27 is detached the rod 24 will be released and the spring 31 will move it longitudinally of the casing 10 and release the
100 closure 11 when the spring pressed plunger 23 will elevate the closure 11 to a sufficient extent to disconnect the plungers 16 and 17 from the spark plugs 14 leaving the latter
105 free to function properly.

When the owner of the vehicle leaves the same he forces the member 11 into closed position against the resistance of the pin 23 and draws the rod 24 outwardly until
110 the apertures of the parts 25 and 26 register and applies the lock 27—28 thereto.

The outward longitudinal movement of the rod 24 causes the pins 30 to enter the perforations of the lugs 29 and effectually locks the member 11 in closed position.

5 The closing of the cover 11 causes the heads 17 of the plungers 16 to strongly contact with the heads 18 of the sparker plug set screws and thus short circuit the plugs and render them inoperative and the vehicle safe from surreptitious operation until
10 the lock 27 is removed.

I have thus produced a simple and easily applied means for locking the vehicle from use during the absence of the owner.

15 The device is simple in construction and can be adapted without material structural change, to motors of various makes.

The preferred embodiment of the invention is disclosed in the drawings and set forth in the specification, but it will be understood that any modifications within the scope of the claims may be made in the construction without departing from the principle of the invention or sacrificing any
20 of its advantages.

I claim—

1. The combination with an internal com-

bustion engine including the sparker plugs thereof, of a casing inclosing said sparker plugs, a movable closure for said casing, 30 contacts corresponding to the sparker plugs carried by said movable closure, means for yieldably holding said movable closure with the contacts thereof separated from the sparker plugs, and means for locking said 35 movable closure to the casing against the resistance of the yieldable holding means to cause the contacts thereof to engage the sparker plugs and short circuit the same.

2. The combination with an internal com- 40 bustion engine including the sparker plugs thereof, of a casing inclosing said sparker plugs, a movable closure for said casing, contacts corresponding to the sparker plugs carried by said movable closure, a rod slid- 45 able through said casing, perforated lugs carried by said closure, pins carried by said rod and adapted to engage in said lugs when the rod is in one position, and means for locking the rod in its outward position. 50

In testimony whereof, I affix my signature hereto.

GUY H. TRIPP.