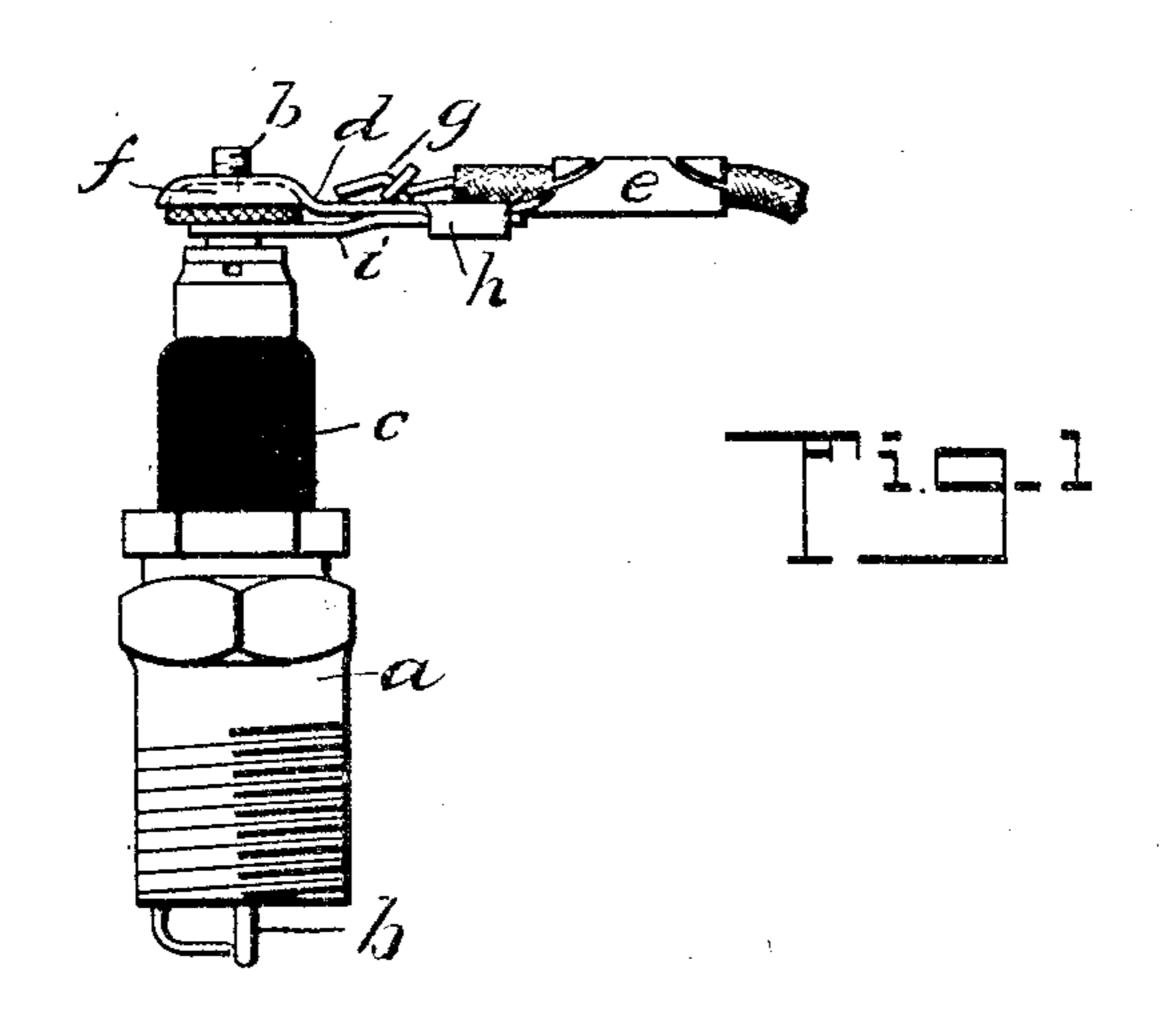
No. 882,260.

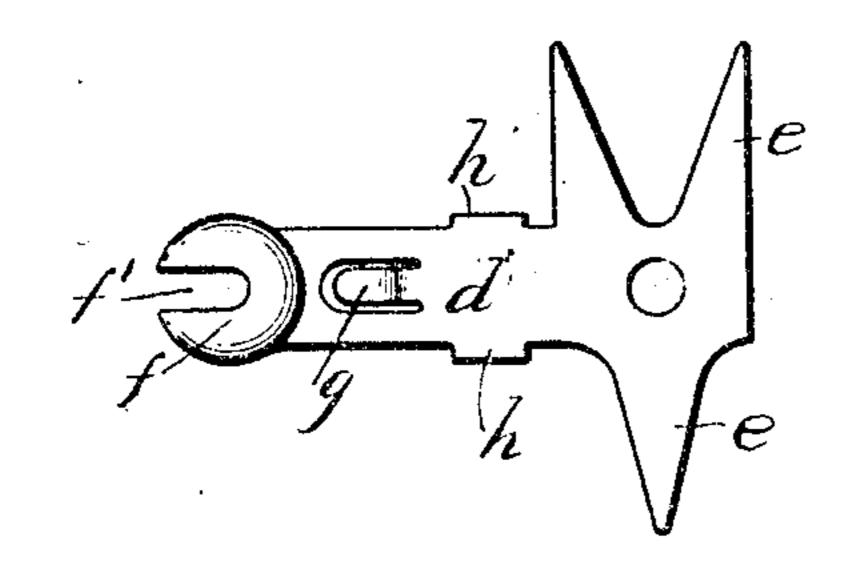
PATENTED MAR. 17, 1908.

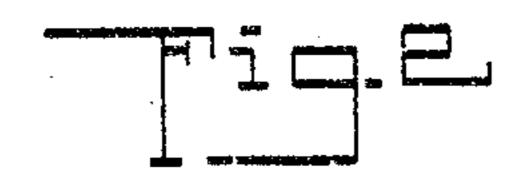
C. A. MEZGER.

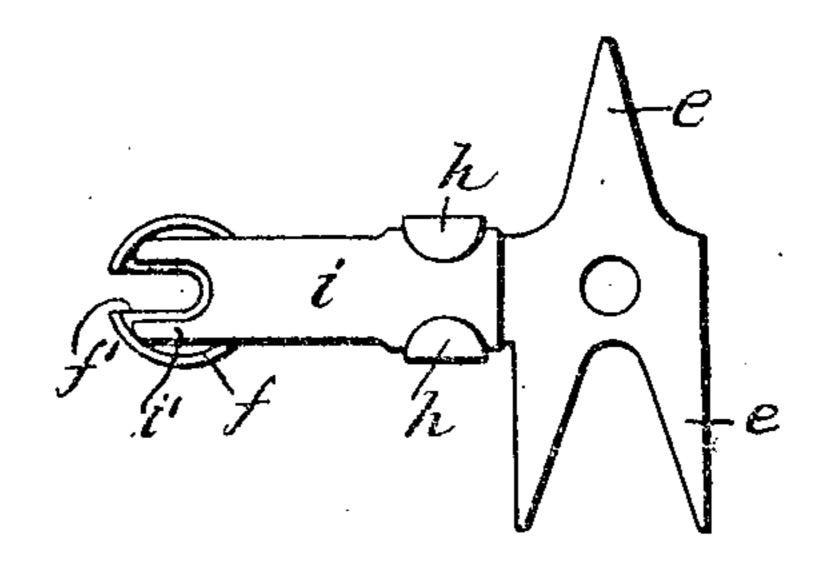
SPARK PLUG CLIP.

APPLICATION FILED SEPT. 6, 1906









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## UNITED STATES PATENT OFFICE.

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## SPARK-PLUG CLIP.

No. 882,260.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed September 6, 1906. Serial No. 333,420.

To all whom it may concern:

Be it known that I, CHARLES A. MEZGER, a citizen of the United States, and a resident of the borough of Brooklyn, city of New York, 5 county of Kings, and State of New York, have invented certain new and useful Improvements in Spark-Plug Clips, of which the following is a full, clear, and exact specification, such as will enable others skilled in the

10 art to make and use the same.

The object of my invention is to construct a device for connecting the terminal wire with the positive electrode of the spark plug or similar igniting device, in such a way that 15 the wire may be permanently connected with the clip and the clip readily connected to and disconnected from the electrode of the plug, thus enabling the operator to quickly detach . the wire preparatory to removing the plug or 20 for any other purposes without in any way involving the danger of being shocked. To this end I provide a main or body portion which has a tongue or lip for electrically con-. necting the wire therewith and which has pli-25 able fingers which may be bent down over the insulation of the wire to hold the same connected with the body. This body has a stamped or died therefrom in the usual manslotted cap, formed at its end, which is adapted to fit over the lock nut of the plug and 30 suitably fastened under the body is a fork adapted to straddle the neck of the lock nut on the under side thereof or to engage an equivalent part of the plug. By this means the wire may be securely and permanently? 35 joined to the clip and the clip readily engaged with the plug in such a way, however, that it may be quickly disconnected at any time.

The invention involves various other fea-40 tures of major or minor importance all of which will be fully set forth hereinafter and particularly specified in the claims.

Reference is now had to the accompanying drawings which illustrate as an example one 45 manner in which my invention may be practically embodied, in which drawings

Figure 1 is a side elevation of the spark plug having my invention engaged therewith; Fig. 2 is a plan view of the clip with 50 the pliable fingers extended and Fig. 3 is a ous forms of nuts. The engagement of the 105 bottom view also with the pliable fingers

The plug shown in the drawings is of the jump spark type and comprises a shell a in

extended.

electrode b and insulation c separating the parts a and b and such other minor parts as are usually employed. The invention, however, may be used in connection with spark plugs of other types as will be fully under- 60

stood from the prior art.

The body of the clip comprises a stem or. shank d at one end of which pliable fingers e are arranged. These fingers are preferably three in number, two at one side and one at 65. the other. At the opposite end of the body a concavo-convex cap f is arranged in which a radial slot f' is formed. Struck up from the middle part or shank d is a tongue g and at each side of the stem or shank is arranged 70 a tongue h the purpose of both of which tongues will be fully set forth hereinafter. The body of the device above described is preferably constructed of an integral sheet of pliable metal such as brass but other metal 75 may be employed. This body is stamped out by suitable die.

The tongues h are bent downward and inward and clamped to the under side of the body at the outer end of the fork i. This fork 80 is also formed of sheet metal and preferably ner. As shown in Fig. 1 the forked end i'

lies directly under the capped cup f. In the use of the device the insulated wire 85 which is to be connected with the electrode b is passed over the top of the body and the fingers e are then bent up around the insulation as shown in Fig. 1. The extremity is introduced under the tongue g and said 90 tongue bent down to form a firm connection therewith. It will thus be seen that the wire is both mechanically and electrically connected with the body of the clip. The clip itself is connected with the spark plug by 95 slipping the cup f over the top of the lock nut and the fork i under the nut around the neck thereof or around the electrode b in case the form of the nut is not that shown in the drawings. In this connection it is ob- 100. served that the use of the device is not limited to the specific form of nut here shown and that the construction of the cap f and fork i is such as to adapt the device to variclip with the spark plug is brought about by simple movement of the clip laterally into engagement with the plug and disengagement is effected by a reversal of this movement 50 connection with the engine frame, a central | which is simply to withdraw the clip. This 110

enables full electrical and mechanical connection to be secured between the wire and clip and at the same time allows easy connection and disconnection between the clip 5 and plug.

Having thus described the preferred embodiment of my invention what I claim as new and desire to secure by Letters Patent

of the United States is:

1. A spark plug clip, comprising a body having at one end pliable fingers adapted to engage the insulated portion of the wire and a tongue struck up from the body and adapted to be electrically connected with the wire, 15 said body also having a cupped cap with a sides of the body and a fork arranged under the body and held rigidly thereto by means of said pliable prongs the bifurcated portion 20 of the fork registering with the slot in the

cap. 2. A spark plug clip having two separate opposing members, spaced from each other and adapted to receive part of the plug be-25 tween them, each of said members being slotted and adapted to receive a part of the

plug in the slot pliable fingers on one member engaging the other member and means

for connecting a wire to the clip.

3. A spark plug clip having two separate 30 opposing members spaced from each other, and adapted to receive a part of the plug between them, the outer or top member being slotted to receive in the slot the central electrode of the plug pliable fingers on one mem- 35 ber engaging the other member to hold them together and means for connecting a wire to

the clip. 4. A spark plug clip having a body terminating in a slotted cap, a fork lying against . 3 the under side of the body and having its biradial slot therein and pliable prongs at the furcated end coincident to the slotted cap, whereby the fork and cap may receive between them the nut of the plug and the slotted parts may straddle parts of the plug, 45 means for connecting the fork with the body and means for electrically and mechanically

connecting the wire to the body. CHARLES A. MEZGE

Witnesses: ISAAC B. OWENS, ETHEL I. McLaughlin.