W. BARCY.

ELECTRIC TERMINAL CLIP.

APPLICATION FILED NOV. 8, 1909.

955,747. **Patented Apr. 19, 1910.**

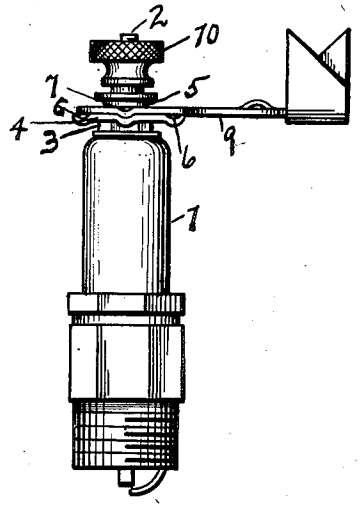

Fig 1.

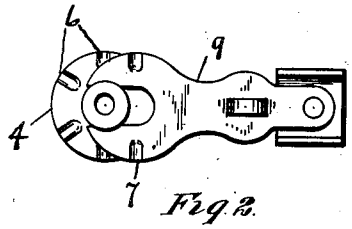

Fig 2.

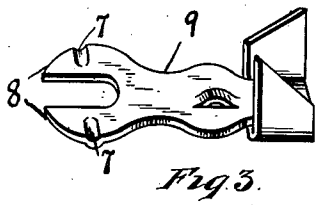

Fig 3.

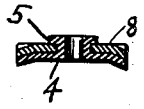

Fig 4.

WITNESSES.

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UNITED STATES PATENT OFFICE.

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ELECTRIC TERMINAL CLIP.

955,747. Specification of Letters Patent. Patented Apr. 19, 1910.

Application filed November 8, 1909. Serial No. 526,762.

To all whom it may concern:

Be it known that I, WILLIAM BARCY, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Electric Terminal Clips, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to terminal clips for spark plugs, and has for its object an improved device of this type, which, while capable of easy attachment and detachment by the intentionally manual pull of the user, is not easily detached from the stem of the plug by the accidental and unintended jarring due to road conditions, or the accidental striking thereagainst.

In the drawings:—Figure 1, is an elevation of the clip attached to the spark plug. Fig. 2, is a plan view of the clip slightly removed from its interlocking position with respect to the collar on the plug. Fig. 3, is a perspective of the clip alone. Fig. 4, is a central sectional elevation of the engaging portion of the clip and the collar and stem of the plug.

1 indicates the spark plug, whose stem 2 extends in the usual manner above its porcelain center portion. Immediately thereabove is a spacing nut 3, on which rests the collar 4, provided with a flanged neck portion 5, which is centrally apertured for the engagement of the stem 2 therethrough. The collar also has several radial indentations 6, the diametrical pairs of which are adapted to register with corresponding indentations 7 in the jaw portion 8 of the clip member 9. The cutaway jaw portion 8, is just of sufficient size to engage resiliently about the flanged collar member 5 of the member 4. The engagement is so close that it engages with considerable frictional firmness about the flanged part 5, but not sufficient to overcome the displacing effect of jarring. When, however, the clip member 9 is forced as far over the collar member 4 as possible, so as to cause its indentations 7 to engage in the corresponding indentations 6 in the collar, an interlocking of the parts is produced, which, on the one hand, is along the plane of the clip and collar members, and on the other is parallel to the axis of the stem, that is, perpendicular to its first line of engagement. This, while sufficient to guard against unintended disengagement of the clip from the plug, is easily detachable by a sharp manual pull. The collar is held in place on the stem 2 by the usual cap nut 10.

What I claim is:—

1. An electric terminal clip, comprising a plurality of correspondingly indented parts, through the flanged central portion of one of which the stem of a spark plug is adapted to pass, and the other of which is adapted to removably engage about the flanged central portion of the first named member, and to resiliently interlock with the correspondingly indented portions thereof, substantially as described.

2. In combination with an indented collar member, having a center portion extending above the plane of the indented body portion, a clip member having tip portions adapted to engage about said center portion of the collar member, said tip portions being so indented as to be capable of resilient interlocking with said collar member when in their intended position with respect thereto, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

WILLIAM BARCY.

Witnesses:

CHARLES A. BRAY,

SAMUEL J. NICHOLSON.