

A. SCHMIDT.
 TERMINAL FASTENING.
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1,029,721.

Patented June 18, 1912.

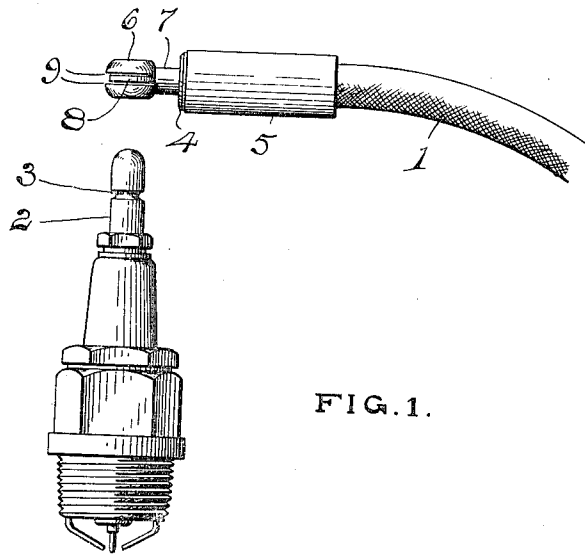


FIG. 1.

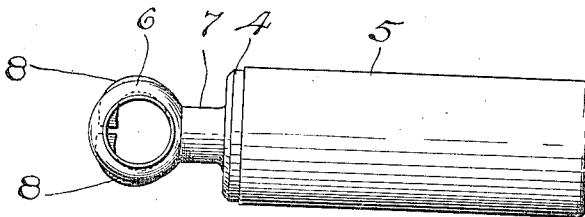


FIG. 2.

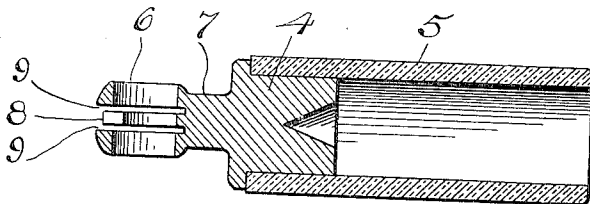


FIG. 3.

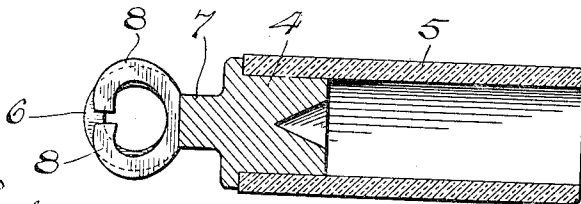


FIG. 4. Inventor

Witnesses

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UNITED STATES PATENT OFFICE.

ALBERT SCHMIDT, OF FLINT, MICHIGAN, ASSIGNOR TO CHAMPION IGNITION COMPANY,
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TERMINAL FASTENING.

1,029,721.

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To all whom it may concern:

Be it known that I, ALBERT SCHMIDT, a citizen of the United States of America, residing at Flint, in the county of Genesee and State of Michigan, have invented certain new and useful Improvements in Terminal Fastenings, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a terminal fastening for electrical conductors and more particularly to a terminal fastening especially adapted for attaching an electrical conductor to a spark plug of an internal combustion motor, and its object is to provide a very simple, cheap and efficient device which may be quickly and easily detached from or attached to a spark plug and when attached will permit the free turning of the fastening upon the plug.

The invention consists in the matters hereinafter set forth, and more particularly pointed out in the claims, reference being had to the accompanying drawing in which

Figure 1 is a side elevation of a spark plug and a terminal fastening embodying the invention shown detached therefrom; Fig. 2 is an enlarged plan view of the fastening; Fig. 3, a longitudinal section of the same; and Fig. 4, a longitudinal section taken at right angles to that of Fig. 3.

The spark plug or other device to which the electrical conductor 1 is to be attached, is provided with a post or stem 2 having an annular groove 3, and a plug 4 formed at one end to fit tightly within an insulating sleeve 5 is provided at its opposite end with an eye 6 connected to the plug by a shank or neck portion 7, and having an opening to receive the post 2 which fits loosely therein when inserted therethrough. The electrical conductor 1 is secured within the sleeve 5 in any suitable manner and an electrical connection made between it and the plug 4.

To detachably hold the eye 6 in place upon the post 2, said eye is formed with spring fingers or tongues 8 by sawing across said eye at right angles to the axis of its opening, forming two parallel cuts 9 which sever that portion of the eye lying between them but leave said portion integral with the shank 7. The portion of the eye thus severed is then cut through at the outer side of the eye, thus forming the two spring

fingers 8 which are integral with the shank at their inner ends and are free to yield at their outer free ends. These outer ends of the fingers are bent inwardly after being severed, so that they project into the opening in the eye a short distance to engage the groove 3 in the stem when said stem is inserted in said opening. The upper end of said post is preferably rounded so that it will enter the eye readily and, engaging the inwardly projecting ends of said fingers, spring them outward to permit the post to pass and when moved into alinement with the groove therein, they will spring into said groove and detachably hold the eye in place upon the post, at the same time making a good electrical contact with the post. A very simple fastening is thus secured which is cheap to manufacture and gives a flexible and rotatable connection which may be readily disconnected.

I claim—

1. A terminal fastening comprising an eye to receive a member having a groove, said eye being cut transversely to the axis of the opening of said eye to form a yielding portion and said portion being bent to project into the opening of said eye and engage the said groove.

2. A terminal fastening comprising an eye member to receive a member having a groove, said eye being cut transversely to the axis of the opening of said eye along parallel lines to form a yielding portion integral with the eye member at one end and said portion being severed at the outer side of the eye to form like spring arms, the free ends of which said arms are bent inward to project into the opening of said eye and engage said groove.

3. The combination with a member having an annular groove, of a plug having an eye portion and a shank portion connecting the eye and plug, said eye being cut transversely of the axis of the opening thereof along parallel lines to form a portion integral with the shank and said portion being severed at the outer side of said eye to form like spring arms with the free ends of said arms bent inwardly to engage said groove, and an insulating sleeve secured to the plug and adapted to receive an electrical conductor.

4. A terminal fastening comprising an eye to receive a member to which it is adapted

to be attached and formed with an integral yielding portion to engage said member and of substantially the same size as the eye portion.

5 5. A terminal fastening comprising an eye to receive a member to which it is adapted to be attached and spring fingers of substantially the same size as the portion formed integral with the latter and adapted
10 to engage said member.

15 6. A terminal fastening comprising an eye to receive a member, said eye being cut transversely to the axis of the opening of said eye and bent to form a yielding portion having a releasable locking engagement with said member.

7. A terminal fastening comprising an eye to receive a member to which it is adapted to be attached and having an integral yielding locking portion formed solely from said 20 eye.

8. A terminal fastening comprising an eye to receive a member to which it is adapted to be attached and formed with a yieldable split eye providing a locking portion. 25

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

ALBERT SCHMIDT.

Witnesses:

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