March 12, 1929. A. CHAMPION 1,705,045

TERMINAL CLIP

Filed May 4, 1925

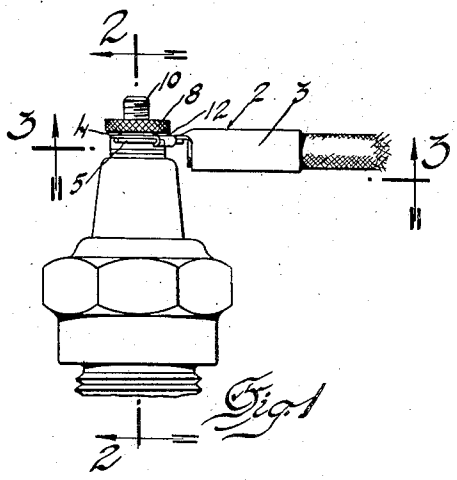


Fig. 1

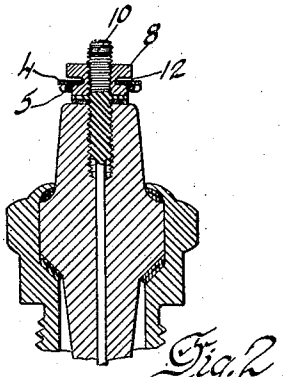


Fig. 2

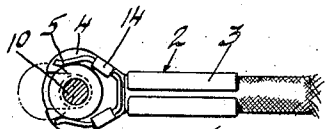


Fig. 3

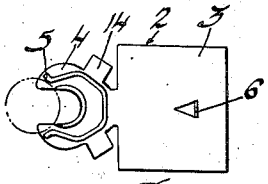


Fig. 4

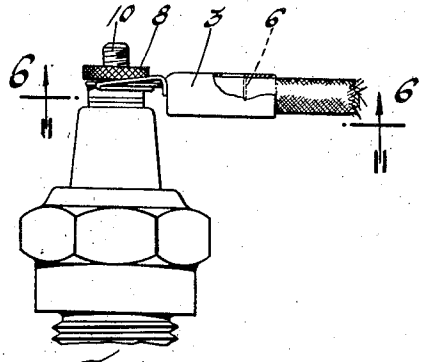


Fig. 5

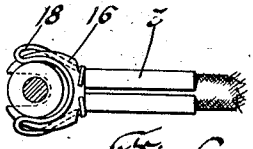


Fig. 6

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UNITED STATES PATENT OFFICE.

ALBERT CHAMPION, OF FLINT, MICHIGAN, ASSIGNOR TO A C SPARK PLUG COMPANY, OF FLINT, MICHIGAN, A COMPANY OF MICHIGAN.

TERMINAL CLIP.

Application filed May 4, 1925. Serial No. 27,797.

The object of this invention is to provide a terminal clip which is capable of making good contact with the terminal and is, at the same time, readily detachable.

I have particularly devised the terminal clip herein disclosed for use in connection with spark plugs. I have so formed it that it will be easily guided into position and when this has been accomplished will yieldingly grasp the terminal in a manner to permit ready separation if desired. My clip is also preferably of such construction as to be very cheaply formed, for the most part of sheet metal and is adapted for cooperation with existing spark plug terminals.

Referring now to the drawings:

Figure 1 is a side elevation of a conventional spark plug with my improved clip applied thereto;

Figure 2 is a section on the line 2—2 of Figure 1;

Figure 3 is a section on the line 3—3 of Figure 1;

Figure 4 is a plan view of my clip before assembly;

Figure 5 is a side elevation of a spark plug to which I have applied a modified form of my clip; and

Figure 6 is a section on line 6—6 of Figure 5.

Referring first to the form of the invention shown in Figures 1 to 4, 1 indicates a conventional form of spark plug provided with the usual binding post 10 upon which a nut 8 is threaded. The nut is provided with an annular groove 12.

I have indicated my terminal clip in its entirety by the reference character 2. This clip comprises a cable end engaging portion 3, a guiding or terminal embracing portion 4, and a clasping portion or member 5.

The cable end engaging portion 3 is adapted to be folded around the cable and is preferably provided with a bent-up tongue 6 to render its connection to the cable more secure.

The guiding or terminal embracing portion 4 is adapted to straddle the terminal and is received within the groove 12 in the nut 8. This portion 4 is provided with bendable lugs 14.

To hold the terminal embracing portion 4 in engagement with the terminal I have provided the clasping member 5 which is preferably formed of a section of spring wire bent into U-shape. This member 5 is secured to the part 4 by placing it in the position shown in Figure 4 and bending down the lugs 14 with which the member 4 is provided.

With the clip assembled it is apparent that it is merely necessary to insert the terminal embracing portion 4 in the groove 12 in the nut 8 and slip it into position whereupon the clasping member 5 embraces a portion of the nut and maintains the engagement of the parts.

In Figures 5 and 6 I have shown a slightly modified form. In this form shoulders 16 are substituted for the lugs 14 and the ends of the clasping member numbered 18 are bent back upon themselves beneath the shoulders and are provided with inwardly turned ends for engaging the shank of the terminal clip. All of this is clearly shown in Figure 6.

While I have shown and described several illustrative embodiments of my invention, it is not my intention to limit its scope to those particular embodiments, or otherwise than by the terms of the appended claims.

I claim:

1. A terminal clip comprising a forked member adapted to straddle the terminal and a resilient clip having spaced arms for yieldingly gripping the terminal between them.

2. A terminal clip comprising a stamping having a sleeve for engaging the end of a cable and a forked portion adapted to engage a terminal, and a spring clip carried by the stamping and having spaced arms for yieldingly gripping the terminal between them.

3. A terminal clip comprising a stamping provided with a cable end engaging portion and a forked portion adapted to engage a terminal, a U-shaped spring clip mounted on the stamping, integral tongues carried by the stamping and adapted to be bent about the base of the clip for retaining it in position, the clip providing spaced resilient arms for gripping the terminal between them.

In testimony whereof I affix my signature.

ALBERT CHAMPION.