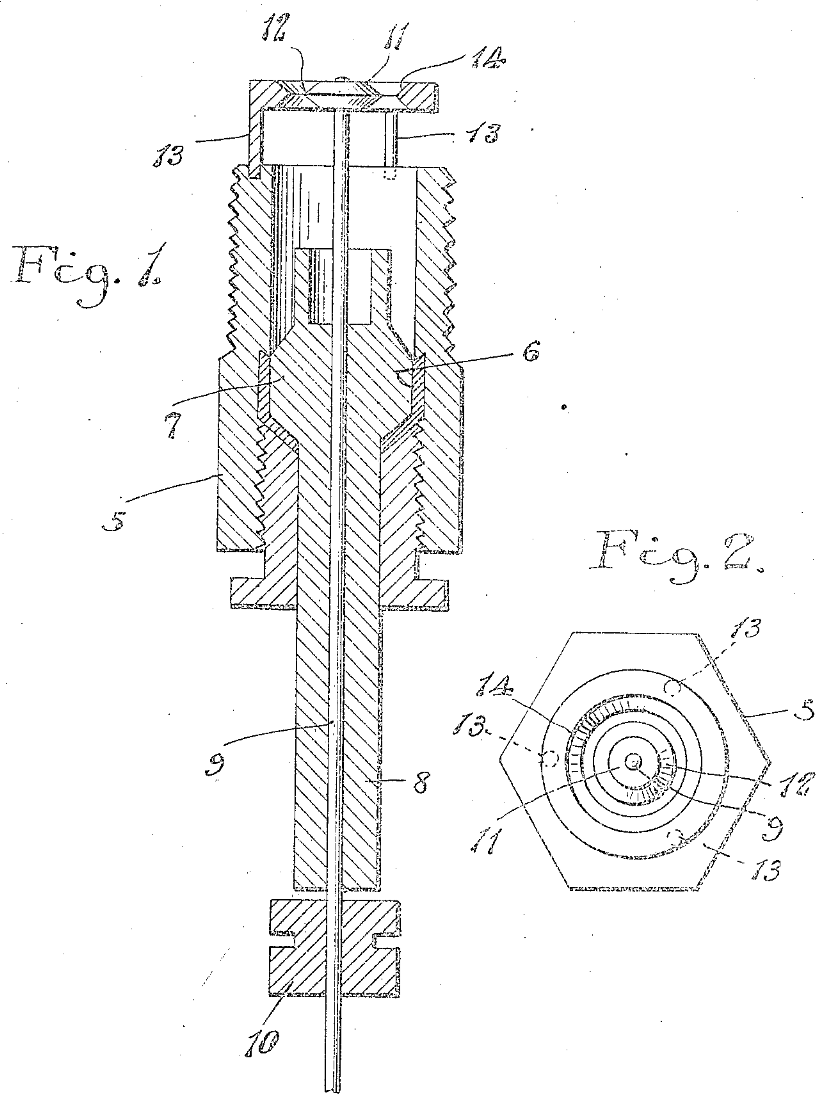
H. J. BERRY.

SPARK PLUG.

APPLICATION FILED AUG. 30, 1916.

1,253,570. Patented Jan. 15, 1918.



Witness:-
J. P. Wahler
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Inventor
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By [signature] Attorney

UNITED STATES PATENT OFFICE.

HARRY J. BERRY, OF PORTLAND, OREGON, ASSIGNOR OF ONE-FOURTH TO W. W. GEORGE, OF PORTLAND, OREGON.

SPARK-PLUG.

1,253,570. Specification of Letters Patent. Patented Jan. 15, 1918.

Application filed August 30, 1916. Serial No. 117,671.

To all whom it may concern:

Be it known that I, HARRY J. BERRY, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Spark-Plugs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has for its object to provide an improved and efficient spark plug in which the sparking members are so constructed as to increase the sparking surface and thus render the plug more efficient in use.

With this and other objects in view, the invention consists in the novel construction, combination and arrangement of the several parts as will be hereinafter specifically described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 represents a longitudinal sectional view through the improved spark plug, and

Fig. 2 represents an end elevation thereof.

Referring to the drawing in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numeral 5 indicates the body of the plug, having a portion thereof of hexagonal formation to receive the jaws of a wrench and having one end tapered and externally screwthreaded to fit the internally screw threaded aperture in the wall of an explosive engine (not shown). The body 5 is formed with an internal shoulder 6 engaging the annular enlargement 7 of the insulator 8. One end of the insulator 8 is extended in spaced relation to the wall of the screw threaded portion of the body 5, and is formed with an axial recess 7^a. The insulator is secured in position in the body 5 by a nut 8^a and is formed with a longitudinal bore receiving the center electrode 9, on one end of which is threaded a nut 10.

A circular sparking member 11 is secured to the end of the electrode 9 opposite the nut 10 and is formed with an oppositely beveled edge 12, disposed in spaced relation to the angular terminals of the sparking members 13, which are electrically connected with the body 5 to provide a spark gap. The inwardly directed terminals of the diametrically opposed sparking members 13 are oppositely beveled similarly to the edge of the sparking member 12, so as to increase the sparking surface thereof and render the spark plug more efficient in use.

What I claim is:

A spark plug comprising a hollow body, an insulator disposed within said body, and having one end terminating within the body, said end of the insulator being recessed, an electrode extending through the insulator and beyond the lower end of the body, a circular sparking member secured to the lower end of the electrode and having oppositely beveled edges, pins carried by the lower ends of the body, an annular sparking member formed upon the pins and having a central opening receiving the circular sparking member and having the wall of said opening oppositely beveled for coöperating with the beveled faces of the circular sparking member to increase the sparking surface.

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

HARRY J. BERRY.

Witnesses:
A. I. MOULTON,
M. HEDLUND.