

Title (en)

Spark plug and method.

Title (de)

Zündkerze und Herstellungsverfahren.

Title (fr)

Bougie d'allumage et méthode de fabrication.

Publication

EP 0386941 A2 19900912 (EN)

Application

EP 90302191 A 19900301

Priority

US 32010789 A 19890306

Abstract (en)

A spark plug with integral electrical components for producing a spark with an increased size and a larger resulting flame kernel in an internal combustion engine. One or more coils may be built into the spark plug for creating a magnetic field in the vicinity of the spark. This magnetic field has the effect of bending and rotating the spark in a circular motion. Also, a capacitor may be incorporated into the spark plug to increase the intensity of the spark. A method of producing such a spark plug utilizes a cermet ink applied to the ceramic spark plug insulator before the insulator is completely hardened. The cermet ink may be used to create monolithic spark plug electrodes, integrated coils and integrated capacitors. The method may also be used to create monolithic electrically conductive paths through any solid dielectric material.

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H01T 13/40; H01T 21/02

IPC 8 full level

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