

Title (en)

Microwave ignition plug for coupling microwave energy

Title (de)

Mikrowellenzündkerze zum Einkoppeln von Mikrowellenenergie

Title (fr)

Bougie d'allumage de micro-ondes destinée à coupler de l'énergie micro-onde

Publication

EP 3064764 B1 20200902 (DE)

Application

EP 15157298 A 20150303

Priority

EP 15157298 A 20150303

Abstract (en)

[origin: MX2016002674A] A microwave spark plug for injecting microwave energy into a combustion chamber of an engine including an elongated housing, including an elongated chamber forming a hollow conductor in an interior of the housing, and including a microwave window arranged at a first end of the chamber in the housing, wherein the microwave window closes the hollow conductor relative to the combustion chamber, wherein the hollow conductor includes a connection element for a high frequency feed conductor at a second end arranged opposite to the microwave window, wherein the connection element includes a high frequency inlet cross section geometry which differs from a high frequency outlet cross section geometry at the microwave window. The microwave sparkplug is configured to be threaded into typical boreholes for sparkplugs and facilitates safe injection of microwave energy into a combustion chamber of an internal combustion engine.

IPC 8 full level

F02P 23/04 (2006.01); **H01P 5/02** (2006.01); **H01T 13/00** (2006.01); **H05H 1/46** (2006.01)

CPC (source: CN EP KR US)

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Cited by

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