

Title (en)
HEATER PLUG FOR INTERNAL-COMBUSTION ENGINES WITH EXTERNAL IGNITION

Publication
EP 0106232 B1 19860618 (DE)

Application
EP 83109726 A 19830929

Priority
DE 3237922 A 19821013

Abstract (en)
[origin: EP0106232A1] 1. Glow plug for internal-combustion engine with applied ignition, with a heater (11) which can be fitted tightly into the cylinder of the internal-combustion engine, is surrounded by a tubular metal casing (13) and has a tubular, electrically insulating ceramic carrier (20) which is provided with a base on the combustion chamber side and is for a conductor track-like electrical heating element (37), which is arranged on the outer surface of the ceramic carrier (20), is connected via conductor track-like connecting conductors (38, 39) to the end section of the ceramic carrier (20) on the connection side and is covered by a dense, electrically insulating protective layer (40), the connecting conductors of the heating element (37) being in electrical connection with additional means of connection which can be connected to a power source, characterized in that a metal core is arranged in the section of the longitudinal bore (30) of the ceramic carrier (20) on the combustion chamber side as a heat sink (46), which metal core, on account of its expansion behaviour owing to temperature effect, is in contact over a considerable part of its surface with the ceramic carrier (20, 34) at operating temperatures above about 850/950 degrees C, but below the said operating temperature has at least partially a gap (47) with respect to the ceramic carrier (30, 34).

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F02P 19/02

IPC 8 full level
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CPC (source: EP)
F23Q 7/001 (2013.01)

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• GB 2092670 A 19820818 - BOSCH GMBH ROBERT
• DE 2748711 B2 19790426

Cited by
DE10228077A1; EP0194535A3; WO2006000489A1; WO9704974A1

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