

Title (en)
GLOW PLUG FOR INTERNAL COMBUSTION ENGINES

Publication
EP 0103775 B1 19880504 (DE)

Application
EP 83108356 A 19830825

Priority
DE 3231781 A 19820826

Abstract (en)
[origin: EP0103775A2] 1. Glow plug (10) for internal-combustion engines, especially for internal-combustion engines without spark ignition, with a heating body (11) having a bar-shaped or tubular ceramic carrier (14) which, on the connection side, has a head (16) and on its surface is equipped with an electrical heating element (22) resembling a conductor track, from which a first electrical connecting conductor (24) resembling a conductor track is guided into an electrical contact region located in the sealing region of the heating body on the connection side, and from which, moreover, a second electrical connecting conductor (23) resembling a conductor track, covered on its top side with an electrically insulating, sealing protective layer in the sealing region on the connection side, is guided to the end face (20) of the ceramic carrier located on the connection side and is designed as a contact face (25), the end portion of the connecting bolt (12) standing up on the end contact face (25) of the ceramic carrier, characterized in that the head (16) of the ceramic carrier (14) has a sealing face (21) directed towards the combustion space and intended to form a seal with a corresponding sealing seat in the bore (43) of the cylinder head (44) of the internal-combustion engine, and in that rotatably arranged coaxially round the connecting bolt (12) is an essentially tubular screw head (13) which presses the connecting bolt (12) against the contact face (25) located on the end face (20) of the ceramic carrier (14) on the connection side, and which, moreover, is electrically insulated from the connecting bolt (12) by means of a ring-like, electrically insulating element (36) and also has fastening means (41, 42) for fastening the glow plug (10) and for pressing the sealing face (21) of the ceramic carrier against the corresponding sealing seat (47) in the internal-combustion engine.

IPC 1-7
F23Q 7/00

IPC 8 full level
F23Q 7/00 (2006.01)

CPC (source: EP)
F23Q 7/001 (2013.01)

Cited by
WO2004074742A1; DE10023395B4; EP0945724A3; WO2005026619A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0103775 A2 19840328; EP 0103775 A3 19860115; EP 0103775 B1 19880504; DE 3231781 A1 19840301; DE 3376499 D1 19880609; JP H0319446 B2 19910315; JP S5956616 A 19840402

DOCDB simple family (application)
EP 83108356 A 19830825; DE 3231781 A 19820826; DE 3376499 T 19830825; JP 15512883 A 19830826