

Title (en)

SHEATH TYPE GLOWPLUG WITH ION CURRENT SENSOR AND METHOD FOR OPERATION THEREOF

Title (de)

GLÜHSTIFTKERZE MIT IONENSTROMSENSOR SOWIE VERFAHREN ZUM BETREIBEN EINER DERARTIGEN GLÜHSTIFTKERZE

Title (fr)

BOUGIE CRAYON DE PRECHAUFFAGE A DETECTEUR DE COURANT IONIQUE ET PROCEDE POUR FAIRE FONCTIONNER UNE TELLE BOUGIE

Publication

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Application

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Abstract (en)

[origin: WO0202993A1] A sheath-type glowplug with an ion current sensor and a method for the operation of said sheath-type glowplug with an ion current sensor is disclosed, whereby the sheath-type glowplug comprises a housing (3) and a rod-shaped heating element (5) arranged in a concentric bore in said housing (3). The heating element (5) has at least one insulating layer (11), a first supply layer (7) and a second supply layer (9), whereby the first supply layer (7) and the second supply layer (9) are connected by a bridge (8) at the combustion chamber end (6) of the heating element (5). The first and second supply layers (7, 9) and the bridge (8) comprise electrically conducting ceramic material and the insulating layer comprises electrically insulating ceramic material. The heating element (5) comprises a first electrode for ion current detection (33) and a second electrode for ion current detection (33'), which are either embedded in the insulation layer (11), or deposited on the insulation layer (11).

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