

Title (en)

CERAMIC HEATER TYPE GLOW PLUG AND METHOD OF MANUFACTURING THE GLOW PLUG

Title (de)

GLÜHKERZE DES KERAMISCHEN HEIZERTYPS UND VERFAHREN ZUR HERSTELLUNG DER GLÜHKERZE

Title (fr)

BOUGIE DE PRECHAUFFAGE EN CERAMIQUE ET PROCEDE DE PRODUCTION DE CETTE DERNIERE

Publication

EP 1328138 A1 20030716 (EN)

Application

EP 01976690 A 20011015

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- JP 2001228361 A 20010727

Abstract (en)

A ceramics heater 6 includes a heating element which is carried by an insulating ceramics material. A negative pole lead wire extends from the heating element and is externally exposed on a lateral surface of the ceramics heater to be electrically connected to a metallic outer sleeve 8. The ceramics heater 6 also has a positive pole lead wire 10 which is taken out through an end face of the ceramics heater disposed remote from the heating element to be connected to an electrode fitting 12. The ceramics heater is cemented to the metallic outer sleeve toward one end thereof so that a junction between the lead wire and the electrode fitting is situated within the metallic outer sleeve. A refractory insulating powder 14 is filled into the space within the metallic outer sleeve, which is then subject to a swaging operation to densify the refractory insulating powder, thereby securing the electrode fitting within the metallic outer sleeve. The swaged portion of the metallic outer sleeve is secured within an internal bore 4 of a housing. A structure which supports the lead wire and the electrode fitting is simplified, and a tightening torque applied to an external connection terminal 18 can be resisted by the metallic outer sleeve which is secured to the housing. <IMAGE>

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Cited by

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