

Title (en)

Quartz vessel with at least one current feedthrough, method of manufacturing a gastight connection between the two, and its application in a gas discharge lamp

Title (de)

SiO₂-Glaskolben mit mindestens einer Stromdurchführung, Verfahren zur Herstellung einer gasdichten Verbindung zwischen beiden sowie ihre Verwendung in einer Gasentladungslampe

Title (fr)

Ampoule en quartz avec au moins une traversée électrique, procédé pour la fabrication d'une connexion étanche aux gaz entre les deux, et son utilisation dans une lampe à décharge

Publication

EP 1178519 B1 20040211 (DE)

Application

EP 01116803 A 20010710

Priority

DE 10038841 A 20000804

Abstract (en)

[origin: DE10038841C1] Silicon dioxide glass bulb has a current duct (1) made from a gas-tight composite material (1a) consisting of a precious metal having a melting point of more than 1700 deg C and silicon dioxide. The precious metal and the silicon dioxide are homogeneously distributed in the composite material. The precious metal is present in an amount of 10-50 vol.% and the silicon dioxide layer (1b) covers the composite material in the region of the connection with the glass bulb. An Independent claim is also included for a process for the production of a gas-tight connection between a silicon dioxide glass bulb and a current duct. Preferred Features: The precious metal is an alloy of ruthenium, rhenium and/or iridium.

IPC 1-7

H01J 61/36; **H01J 5/46**

IPC 8 full level

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CPC (source: EP US)

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