

Title (en)

Ceramic seal for high pressure sodium vapor lamps.

Title (de)

Keramische Versieglung für Natriumdampfhochdrucklampen.

Title (fr)

Scellement céramique pour lampes à vapeur de sodium à haute pression.

Publication

EP 0100091 A2 19840208 (EN)

Application

EP 83107334 A 19830726

Priority

US 40176282 A 19820726

Abstract (en)

Improved ceramic seals for both ends of a tubular light transmitting ceramic envelope used in sodium vapor lamps are disclosed to provide a more reliable hermetic seal. One end closure comprises a ceramic plug inserted into one end of the light transmitting envelope and being hermetically sealed to the inner wall of said envelope with ceramic sealing frit, said ceramic plug having a central opening through which extends one thermionic electrode inlead which is hermetically sealed at said opening with ceramic sealing frit, and having a transverse metal cross piece joined to said inlead. The remaining end closure comprises a ceramic disc having a larger diameter than the inner diameter of said light transmitting envelope which is hermetically sealed with ceramic sealing frit to the end of said light transmitting envelope as well as to the surface of a ceramic plug inserted into the end of said light transmitting envelope, with both said ceramic disc and ceramic plug having central openings through which extends an inlead and exhaust tube member for the remaining thermionic electrode and which is hermetically sealed at the central opening of said ceramic plug with ceramic sealing frit.

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