

Title (en)

Discharge lamp with surrounding shroud and method of making such lamp.

Title (de)

Entladungslampe mit doppelwandigem Kolben und Verfahren zu deren Herstellung.

Title (fr)

Lampe à décharge avec récipients à doubles parvis et procédé pour la fabriquer.

Publication

EP 0465083 A2 19920108 (EN)

Application

EP 91305715 A 19910625

Priority

US 54457190 A 19900627

Abstract (en)

This discharge lamp includes (i) an inner envelope (12) of vitreous material comprising a bulbous portion (14) and two tubular portions (16, 18) extending from the bulbous portion and (ii) a tubular shroud (20) of vitreous material surrounding the bulbous portion and the two tubular portions. The lamp is made by the following method. A disk-shaped enlargement (30) is formed in at least one of the tubular portions by heating a localized region of the tubular portion to its softening point and then subjecting said localized region to a compressive force (i) that is abruptly applied along the length of the tubular portion and (ii) that drives the softened vitreous material radially outward into a disk formation. Then the tubular shroud is placed over the inner envelope so that each disk-shaped enlargement is positioned with its outer periphery closely adjacent the inner periphery of the surrounding tubular shroud. Then seals are formed between the outer peripheries of the disk-shaped enlargements and the surrounding shroud portions by heating each of the surrounding shroud portions to its softening point and collapsing it about the outer periphery of the associated disk-shaped enlargement. <IMAGE>

IPC 1-7

H01J 9/24; **H01J 61/34**

IPC 8 full level

H01J 9/24 (2006.01); **H01J 9/32** (2006.01); **H01J 61/34** (2006.01)

CPC (source: EP)

H01J 9/323 (2013.01); **H01J 61/34** (2013.01)

Cited by

WO2005045880A1; EP1492146A3; EP1720189A1; EP0570068A1; US5726532A; DE10157868B4; EP1681707A4; EP0612098A1; US5453654A; CN102388429A; CN102549702A; US5388034A; CN102770937A; DE19545530A1; US5757110A; DE19545530B4; US5253153A; EP0588602A3; US7612503B2; US7253562B2; US7514873B2; WO2007014705A3; WO2011104104A1; WO9428576A1; US7112116B2; US7221098B2; EP1975975A1; WO2010112314A1; WO2011039033A1

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

EP 0465083 A2 19920108; **EP 0465083 A3 19930120**; CA 2042143 A1 19911228; JP H04229942 A 19920819; JP H0565978 B2 19930920

DOCDB simple family (application)

EP 91305715 A 19910625; CA 2042143 A 19910509; JP 17888191 A 19910625