

Title (en)

LOW-PRESSURE DISCHARGE LAMP WITH ONE-SIDED LAMP BASE AND ITS METHOD OF MANUFACTURE

Publication

EP 0118834 B1 19880120 (DE)

Application

EP 84102131 A 19840229

Priority

DE 3307780 A 19830304

Abstract (en)

[origin: US4599536A] A single-ended low-pressure discharge lamp, such as a fluorescent lamp, is made by providing an inner glass base structure which has a depending portion (2) extending towards the base (14) of the lamp, and an upper flange or rim portion (3) to which the bulb (10) is melted-on as a last step. Two U-shaped tubes (5, 5') are melted-in into an oval deformed region of the depending projecting end portion (2), a pre-heatable electrode (12, 12') being also located within the end region (8, 8a) of the U-shaped tubes, so that, in one working step, after deformation of the glass U-shaped tubes and the glass inner base structure, a press operation will seal together the electrodes within the ends of the U-shaped tubes, the glass of the U-shaped tubes and the inner base structure. The glass of the U-shaped tubes is coated with a phosphor, resulting in a long discharge path, through both of the U-shaped tubes, permitting direct replacement of screw-type based incandescent lamps by the thus formed fluorescent unit, after placing a bulb over the U-shaped tube and attachment to the rim, and introducing a fill including mercury. The axially depending end portion, being generally oval in cross section, leaves space laterally of the elongated sides of the oval between a circular base for positioning, for example, of starter and ballast elements.

IPC 1-7

H01J 61/34; **H01J 9/40**; **H01J 5/54**

IPC 8 full level

H01J 61/30 (2006.01); **H01J 5/52** (2006.01); **H01J 5/54** (2006.01); **H01J 9/34** (2006.01); **H01J 9/40** (2006.01); **H01J 61/32** (2006.01); **H01J 61/34** (2006.01)

CPC (source: EP US)

H01J 5/52 (2013.01 - EP US); **H01J 9/34** (2013.01 - EP US); **H01J 61/327** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0118834 A1 19840919; **EP 0118834 B1 19880120**; DE 3307780 A1 19840906; DE 3468956 D1 19880225; JP S59167950 A 19840921; US 4599536 A 19860708

DOCDB simple family (application)

EP 84102131 A 19840229; DE 3307780 A 19830304; DE 3468956 T 19840229; JP 4060684 A 19840305; US 58182684 A 19840221