

Title (en)

Mercury-free low pressure gas discharge lamp

Title (de)

Niederdruckgasentladungslampe mit quecksilberfreier Gasfüllung

Title (fr)

Lampe à décharge au gaz à basse pression sans mercure

Publication

EP 1267389 B1 20041117 (DE)

Application

EP 02100705 A 20020613

Priority

DE 10128915 A 20010615

Abstract (en)

[origin: EP1267389A1] Low pressure gas discharge lamp comprises a gas discharge vessel containing a gas filling of a group IV chalcogenide and a buffer gas; inner (2) and outer electrodes; and devices for producing and maintaining a low pressure gas discharge. Preferred Features: The chalcogenide is a sulfide, selenide or telluride. The group IV element is silicon, germanium, tin or lead. The chalcogenide is especially silicon sulfide, germanium sulfide, germanium selenide, germanium telluride, tin sulfide, tin selenide or tin telluride. The gas discharge vessel has a luminescent coating (4) on its external surface or on its internal surface.

IPC 1-7

H01J 61/12; **H01J 61/70**

IPC 8 full level

H01J 61/12 (2006.01); **H01J 61/70** (2006.01)

CPC (source: EP US)

H01J 61/12 (2013.01 - EP US); **H01J 61/70** (2013.01 - EP US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1267389 A1 20021218; **EP 1267389 B1 20041117**; CN 1311512 C 20070418; CN 1392588 A 20030122; DE 10128915 A1 20021219; DE 50201546 D1 20041223; JP 2003007248 A 20030110; US 2003001505 A1 20030102; US 6731070 B2 20040504

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EP 02100705 A 20020613; CN 02126581 A 20020612; DE 10128915 A 20010615; DE 50201546 T 20020613; JP 2002174632 A 20020614; US 16718102 A 20020611