

Title (en)
High pressure discharge lamp.

Title (de)
Hochdruckentladungslampe.

Title (fr)
Lampe à décharge à haute pression.

Publication
EP 0477735 B1 19950419 (DE)

Application
EP 91115778 A 19910917

Priority
DE 4030820 A 19900928

Abstract (en)
[origin: EP0477735A1] In order to reduce the cold filling pressure of noble gas in the case of high-pressure discharge lamps, the volumes of the spaces in the bulb necks (2, 2') which are filled with relatively cold gas when the lamp is in operation and are remote from the bulb are filled by means of a disc or discs (9, 9'), which preferably consists of aluminium oxide ceramic and is/are pushed onto the electrode rods between a supporting element (6, 6') and a spiral spring (8) which provides the position. This facilitates starting, because of the reduced breakdown voltage, and leads to increased arc stability, because of the reduced convection. In addition, the discs relieve the stress on the supporting element (6, 6') which supports the electrode rod (4, 4'), both mechanically and - supported by a coating (11'), which increases the emission, on the bulb neck seal (7) and base region (5, 5') - thermally. <IMAGE>

IPC 1-7
H01J 61/36; H01J 61/52

IPC 8 full level
H01J 61/35 (2006.01); **H01J 61/36** (2006.01); **H01J 61/52** (2006.01); **H01J 61/86** (2006.01)

CPC (source: EP US)
H01J 61/36 (2013.01 - EP US)

Cited by
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Designated contracting state (EPC)
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EP 0477735 A1 19920401; EP 0477735 B1 19950419; DE 4030820 A1 19920402; DE 59105245 D1 19950524; JP 2787821 B2 19980820; JP H04249060 A 19920904; US 5140222 A 19920818

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EP 91115778 A 19910917; DE 4030820 A 19900928; DE 59105245 T 19910917; JP 25438791 A 19910906; US 73208391 A 19910718