

Title (en)
High pressure discharge lamp

Title (de)
Hochdruck-Entladungslampe

Title (fr)
Lampe de décharge haute pression

Publication
EP 1793411 A3 20080227 (EN)

Application
EP 07004209 A 20021016

Priority
• EP 02257172 A 20021016
• JP 2001319523 A 20011017
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Abstract (en)
[origin: EP1793411A2] A high-pressure discharge lamp includes: an arc tube that is made from a translucent ceramic material and composed of a main-tube part in which a discharge space is formed and thin-tube parts extending from both ends of the main-tube part; and a pair of electrodes having rods respectively extending from the two thin-tube parts into the discharge space so that the tops face each other with a distance in-between. The rod of at least one of the electrodes is held by a tubular electrode holder made of a halide-resistant metal embedded in and bonded to the thin-tube part via an adhesive agent including a sintered halide-resistant metal impregnated with mixture glass. The electrode holder is at such a position that satisfies " $L \leq 0.012P + 2.5$ [mm]", where "L" is distance [mm] between the electrode top and one end of the electrode holder closer to the discharge space, and "P" is lamp wattage [W].

IPC 8 full level
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CPC (source: EP)
H01J 61/34 (2013.01); **H01J 61/36** (2013.01); **H01J 61/363** (2013.01); **H01J 61/547** (2013.01); **H01J 61/827** (2013.01)

Citation (search report)
• [X] EP 0973187 A1 20000119 - USHIO ELECTRIC INC [JP]
• [X] EP 0982278 A1 20000301 - NGK INSULATORS LTD [JP]
• [A] JP 2000100385 A 20000407 - NGK INSULATORS LTD
• [A] EP 0807957 A2 19971119 - NGK INSULATORS LTD [JP]
• [A] JP H11154493 A 19990608 - NGK INSULATORS LTD

Designated contracting state (EPC)
BE DE

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