

Title (en)  
High pressure discharge lamp

Title (de)  
Hochdruckentladungslampe

Title (fr)  
Lampe à décharge haute pression

Publication  
**EP 0703600 A2 19960327 (DE)**

Application  
**EP 95112861 A 19950816**

Priority  
DE 9415217 U 19940921

Abstract (en)  
The lamp has a discharge vessel (2) contg. an axially mounted cathode (4) and anode (3) and an ionisable filling. The cathode has a cylindrical base body (8) which narrows to a point (10) and the cathode is at least partially coated by a carbide film. The whole of the narrowing region between the tip and the base body is free of carbide, whilst the base body is at least partly coated with carbide. The lamp contains mercury in a quantity of 70 to 130 mg/cm<sup>3</sup>, the electrode separation is 0.4 to 0.8 mm. and the working voltage is about 20 to 29 volts, esp. about 23 volts.

Abstract (de)  
Bei einer Hochdruckentladungslampe mit Quecksilber- und Xenonfüllung ist die Kathode teilweise mit einer Carbidsschicht bedeckt. Die Quecksilbermenge ist 70 bis 130 mg/cm<sup>3</sup>, der Elektrodenabstand 0,4 bis 0,8 mm. Die Kathode besteht aus Wolfram, das mit Thoriumoxid bis 0,6% dotiert ist. <IMAGE>

IPC 1-7  
**H01J 61/073**

IPC 8 full level  
**H01J 61/02** (2006.01); **H01J 61/073** (2006.01); **H01J 61/16** (2006.01); **H01J 61/20** (2006.01); **H01J 61/82** (2006.01)

CPC (source: EP US)  
**H01J 61/025** (2013.01 - EP US); **H01J 61/073** (2013.01 - EP US); **H01J 61/0735** (2013.01 - EP US); **H01J 61/16** (2013.01 - EP US); **H01J 61/20** (2013.01 - EP US); **H01J 61/82** (2013.01 - EP US)

Citation (applicant)  

- US 5284614 A 19940208 - CHEN LI-CHYONG [US], et al
- DE 1088155 B 19600901 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH
- DE 4002974 A1 19910808 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]

Cited by  
DE10137794B4; WO2008116756A1

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BE DE FR GB IT NL

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**DE 9415217 U1 19960125**; DE 59507686 D1 20000302; EP 0703600 A2 19960327; EP 0703600 A3 19980506; EP 0703600 B1 20000126; JP 3022910 U 19960402; US 5629585 A 19970513

DOCDB simple family (application)  
**DE 9415217 U 19940921**; DE 59507686 T 19950816; EP 95112861 A 19950816; JP 989095 U 19950920; US 51018595 A 19950802