

Title (en)  
High-pressure discharge lamp.

Title (de)  
Hochdruckentladungslampe.

Title (fr)  
Lampe à décharge à haute pression.

Publication  
**EP 0456907 B1 19950322 (DE)**

Application  
**EP 90124462 A 19901217**

Priority  
DE 4008375 A 19900315

Abstract (en)  
[origin: EP0456907A2] In the high-pressure discharge lamp, having a power less than or equal to 400 W, and having a metal-halide filling, especially of sodium and tin, each of the two electrodes (4, 5) consists of an electrode pin (17) and an electrode head (19) mounted thereon. The electrode head (19) has an essentially cylindrical or truncated- conical external contour and a mass M in mg, whose maximum and minimum permissible value is given by the formula  $M = iL \times (23 \pm 8)$ . The electrode pin (17) has a diameter d in mm, whose maximum and minimum value is determined by the formula  $d = 2\sqrt{0.083 \times iL \pm 0.02}$ , iL being the root-mean-square value of the lamp current in A. In addition, the tip of the electrode pin (17) supporting the electrode head (19) extends at most up to the end of the electrode head (19) facing the discharge arc. The electrode erosion and the flicker factor can be kept small as a result of the electrode shape. <IMAGE>

IPC 1-7  
**H01J 61/073**; **H01J 61/82**

IPC 8 full level  
**H01J 61/073** (2006.01); **H01J 61/82** (2006.01); **H01J 61/88** (2006.01)

CPC (source: EP US)  
**H01J 61/0732** (2013.01 - EP US)

Cited by  
DE102008016888A1; DE102007050633A1; WO9716844A3

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 4008375 A1 19910919**; DE 59008768 D1 19950427; EP 0456907 A2 19911121; EP 0456907 A3 19920318; EP 0456907 B1 19950322; JP 2947958 B2 19990913; JP H04220939 A 19920811; US 5210463 A 19930511

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