

Title (en)  
High pressure discharge lamp

Title (de)  
Hochdruckentladungslampe

Title (fr)  
Lampe à décharge à haute pression

Publication  
**EP 0759633 A1 19970226 (DE)**

Application  
**EP 96111638 A 19960718**

Priority  
DE 19530293 A 19950817

Abstract (en)  
The high pressure discharge lamp includes a transparent gas-impermeable sealed discharge vessel containing electrode rods (4) and a filling which can be ionised. The electrode rods have a sintering section (5) containing at least 90 percent lanthanum oxide by weight, and this is surrounded by a spiral electrode (6). The sintering section may also contain barium oxide and tungsten oxide. The spiral electrode is formed in two layers and reaches out beyond the length of the sintering section. This end of the spiral electrode is narrowed so that the inner diameter is smaller than the diameter or thickness of the sintering section.

Abstract (de)  
Die Erfindung betrifft Hochdruckentladungslampen, deren Elektroden einen Lanthanoxid enthaltenden und als Elektronenemitter wirkenden Sinterkörper (5) aufweisen, der von einer Elektrodenwendel (6) umgeben ist. Der Sinterkörper (5) enthält erfindungsgemäß mindestens 90 Gewichtsprozent Lanthanoxid. Dadurch werden eine hohe thermische Stabilität des Sinterkörpers (5) und eine gute Zündwilligkeit der Lampe bei über die Lampenlebensdauer vernachlässigbarer Schwärzung des Entladungsgefäßes (1) gewährleistet. <IMAGE>

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

IPC 8 full level  
**H01J 61/073** (2006.01); **H01J 61/06** (2006.01)

CPC (source: EP US)  
**H01J 61/073** (2013.01 - EP US); **H01J 61/0732** (2013.01 - EP US); **H01J 61/0735** (2013.01 - EP US)

Citation (search report)  
• [A] US 4319158 A 19820309 - WATANABE KEIJI, et al  
• [A] US 4052634 A 19771004 - DE KOK JOHANNIS  
• [AD] EP 0647964 A1 19950412 - PHILIPS ELECTRONICS NV [NL]  
• [A] FR 2087545 A5 19711231 - LAMPES SA  
• [A] FR 2133088 A6 19721124 - LAMPES SA  
• [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 074 (E - 717) 20 February 1989 (1989-02-20)  
• [A] DATABASE WPI Section Ch Week 7637, Derwent World Patents Index; Class A85, AN 76-69459X, XP002017894

Designated contracting state (EPC)  
BE DE FR GB IT NL

DOCDB simple family (publication)  
**US 5712531 A 19980127**; CA 2183481 A1 19970218; DE 19530293 A1 19970220; DE 59603137 D1 19991028; EP 0759633 A1 19970226; EP 0759633 B1 19990922; HU 215045 B 19980928; HU 9602280 D0 19961028; HU P9602280 A1 19971128; JP H0963535 A 19970307

DOCDB simple family (application)  
**US 68859596 A 19960730**; CA 2183481 A 19960816; DE 19530293 A 19950817; DE 59603137 T 19960718; EP 96111638 A 19960718; HU P9602280 A 19960816; JP 23251396 A 19960814