

Title (en)

HIGH INTENSITY DISCHARGE LAMPS, ARC TUBES AND METHODS OF MANUFACTURE

Title (de)

HOCHINTENSITÄTS-GASENTLADUNGSLAMPEN, BOGENENTLADUNGSRÖHREN UND HERSTELLUNGSVERFAHREN

Title (fr)

LAMPES A DECHARGE D'INTENSITE ELEVEE, TUBES A ARC ET PROCEDES DE FABRICATION ASSOCIES

Publication

EP 1493169 A4 20060823 (EN)

Application

EP 02725573 A 20020409

Priority

US 0211053 W 20020409

Abstract (en)

[origin: WO03088295A1] A tipless arc tube (12) for a high intensity discharge lamp and method of manufacture wherein, through reliance on the different density of gases to isolate the sealed atmosphere, the arc tube end (38) may remain open to an uncontrolled atmosphere during both the step of gas fill and the subsequent step of hermetically sealing the tube by a pinch seal at the lead assembly (32). Further, the final pressure of the fill gas sealed within the arc tube (12) may be controlled by controlling the temperature of the fill gas during sealing thus obviating the need to employ a pump to control the fill gas pressure.

IPC 1-7

H01J 9/26; **H01J 9/32**; **H01J 9/395**

IPC 8 full level

H01J 9/32 (2006.01); **H01J 9/395** (2006.01); **H01J 61/30** (2006.01)

CPC (source: EP KR)

H01J 9/326 (2013.01 - EP); **H01J 9/395** (2013.01 - EP); **H01J 61/02** (2013.01 - KR); **H01J 61/073** (2013.01 - KR)

Citation (search report)

- [E] WO 02099832 A1 20021212 - ADVANCED LIGHTING TECH INC [US]
- [X] US 3311439 A 19670328 - HENRI PACE
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 074 (E - 1036) 21 February 1991 (1991-02-21)
- See references of WO 03088295A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03088295 A1 20031023; AU 2002256129 A1 20031027; CN 100550258 C 20091014; CN 101552169 A 20091007; CN 1513194 A 20040714; EP 1493169 A1 20050105; EP 1493169 A4 20060823; JP 2005522842 A 20050728; KR 100760712 B1 20070921; KR 20040103742 A 20041209

DOCDB simple family (application)

US 0211053 W 20020409; AU 2002256129 A 20020409; CN 02810851 A 20020409; CN 200910132800 A 20020409; EP 02725573 A 20020409; JP 2003585134 A 20020409; KR 20037015455 A 20031127