

Title (en)
Electrical conductor in lamps

Title (de)
Elektrischer Leiter in Lampen

Title (fr)
Conducteur électrique dans des lampes

Publication
EP 0691673 A2 19960110 (DE)

Application
EP 95201756 A 19950628

Priority
AT 132394 A 19940705

Abstract (en)
The electrical conductor comprises ribbon material based on molybdenum yttrium oxide, and is used to conduct electricity in lamps with glass/metal sealing. In addition to the molybdenum yttrium oxide, the conductor also contains between 0.03 and 1.0 percent by weight of cerium oxide, which corresponds to a cerium oxide/yttrium oxide ratio of 0.1 to 1. Alternatively, the amount of cerium oxide can be replaced by up to 40 percent in weight by one or more of the following oxides: La2O3, Er2O3, SiO2, HfO2, ZrO2, TiO2, Al2O3.

Abstract (de)
Die Erfindung betrifft eine bandförmige Stromzuführung auf Molybdän-Yttriumoxidbasis für elektrische Lampen mit Metall-Glasdichtung. Das Bandmaterial enthält neben Molybdän-Yttriumoxid 0,03 bis 1,0 Gew.% Ceroxid, wobei das Verhältnis Ceroxid zu Yttriumoxid 0,1 bis 1 beträgt. Die erfindungsgemäße Stromzuführung weist gegenüber bekannten Stromzuführungen eine deutlich verbesserte Korrosions- bzw. Oxidationsbeständigkeit auf.

IPC 1-7
H01J 61/36; **H01J 9/28**

IPC 8 full level
H01J 5/46 (2006.01); **H01B 1/08** (2006.01); **H01J 29/28** (2006.01); **H01J 61/36** (2006.01); **H01K 1/40** (2006.01)

CPC (source: EP US)
H01J 29/28 (2013.01 - EP US); **H01J 61/36** (2013.01 - EP US); **H01J 61/368** (2013.01 - EP US)

Citation (applicant)

- DE 2947230 C2 19850124
- DE 3006846 C2 19880922
- US 5021711 A 19910604 - MADDEN SANDRA L [US], et al
- EP 0309749 B1 19930210
- EP 0098858 B1 19880518
- AT 395493 B 19930125 - PLANSEE METALLWERK [AT]
- EP 0311308 A2 19890412 - BOC GROUP INC [US]
- EP 0275580 B1 19910814
- JP S6058296 B2 19851219

Cited by
EP1538658A3; DE19837904A1; US5962976A; DE19837904B4; US6753650B2; WO2010057239A1; WO2006123271A3; WO2007000006A3; EP1538658A2; US7345426B2; EP0818805B1

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

DOCDB simple family (publication)
EP 0691673 A2 19960110; **EP 0691673 A3 19971126**; **EP 0691673 B1 20000301**; AT 401124 B 19960625; AT A132394 A 19951015; DE 59507870 D1 20000406; JP 3459318 B2 20031020; JP H0855566 A 19960227; US 5606141 A 19970225

DOCDB simple family (application)
EP 95201756 A 19950628; AT 132394 A 19940705; DE 59507870 T 19950628; JP 18328895 A 19950628; US 49163795 A 19950619