

Title (en)
Cold cathode discharge lamp.

Title (de)
Entladungslampe mit Kaltkathode.

Title (fr)
Lampe de décharge à cathode froide.

Publication
EP 0466138 A1 19920115 (EN)

Application
EP 91111508 A 19910710

Priority
JP 18282390 A 19900712

Abstract (en)
A cold cathode discharge lamp includes phosphor films (15) formed on the inner surface of a bulb (1), discharge gas sealed in the bulb and containing at least xenon, and a pair of cold cathode and electrodes (20, 30) provided in the bulb for making the discharge gas cause discharge, and Exo electron emitting layer made of alpha -alumina (18) is installed in the bulb, which emits Exo electrons into the bulb by the stimulus energy equal to or less than the work function in the dark. <IMAGE>

IPC 1-7
H01J 61/78

IPC 8 full level
C03C 17/34 (2006.01); **H01J 61/06** (2006.01); **H01J 61/067** (2006.01); **H01J 61/35** (2006.01); **H01J 61/42** (2006.01); **H01J 61/54** (2006.01); **H01J 61/78** (2006.01)

CPC (source: EP)
H01J 61/0677 (2013.01); **H01J 61/35** (2013.01); **H01J 61/54** (2013.01); **H01J 61/78** (2013.01)

Citation (search report)
• [X] EP 0348979 A2 19900103 - TOSHIBA LIGHTING & TECHNOLOGY [JP]
• [Y] US 4887002 A 19891212 - DOBASHI YOSHITOMI [JP], et al
• [Y] US 4914723 A 19900403 - ELLERBECK ROGER P [GB], et al

Cited by
US8007123B2; EP0638918A1; US5495143A; EP1259099A3; US7633216B2; WO03052791A1; WO2007064570A3; US7607791B2; US6905224B2

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
EP 0466138 A1 19920115; EP 0466138 B1 19951129; DE 69114929 D1 19960111; DE 69114929 T2 19960725; JP 3080318 B2 20000828; JP H0471155 A 19920305

DOCDB simple family (application)
EP 91111508 A 19910710; DE 69114929 T 19910710; JP 18282390 A 19900712