

Title (en)

Electric discharge tube or discharge lamp and scandate dispenser cathode

Title (de)

Elektrische Entladungsröhre oder Entladungslampe und Scandat-Vorratskathode

Title (fr)

Tube à décharge électrique ou lampe à décharge et cathode à réserve comprenant du scandate

Publication

EP 0757370 B1 20000705 (DE)

Application

EP 96202114 A 19960725

Priority

DE 19527723 A 19950731

Abstract (en)

[origin: EP0757370A1] An electrical discharge lamp, eg low pressure gas type, has a scandate dispenser cathode that is formed of a cathode body covered with an emitting surface. The cathode body is of a matrix formed from either a high melting point material or a high melting point alloy together with a barium binding material. Chemical reaction results in emission from the surface. A cover with one or more layers of tungsten and/or tungsten alloy, an intermediate layer of rhenium and a top coating of scandium oxide mixed with a rare earth metal oxide completes the structure

IPC 1-7

H01J 1/28

IPC 8 full level

H01J 1/15 (2006.01); **H01J 1/28** (2006.01); **H01J 61/067** (2006.01)

CPC (source: EP US)

H01J 1/28 (2013.01 - EP US)

Cited by

WO2013018027A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0757370 A1 19970205; **EP 0757370 B1 20000705**; DE 19527723 A1 19970206; DE 59605538 D1 20000810; JP 3957344 B2 20070815; JP H09106751 A 19970422; US 6348756 B1 20020219

DOCDB simple family (application)

EP 96202114 A 19960725; DE 19527723 A 19950731; DE 59605538 T 19960725; JP 19899596 A 19960729; US 68842396 A 19960730