

Title (en)

Oxide cathode for electron tube

Title (de)

Oxydkathode für Elektronenröhre

Title (fr)

Cathode à oxyde pour tube à électrons

Publication

EP 0639848 B1 19970910 (EN)

Application

EP 93310036 A 19931213

Priority

- KR 930016231 A 19930820
- KR 930021670 A 19931019
- KR 930022124 A 19931023
- KR 930022490 A 19931027

Abstract (en)

[origin: EP0639848A1] In an oxide cathode comprising a metal base, an electron emissive material layer containing at least Ba formed on the metal base, and a means for heating the electron emissive material layer, the electron emissive material layer further comprises at least one of a lanthanum oxide and a terbium oxide, and forms a needle-shaped crystal structure, or the electron emissive material layer further comprises at least one of a lanthanum oxide and a terbium oxide, and the metal base is subject to a heat treatment under vacuum. The oxide cathode has an effect on lengthening the lifetime, and has a manufacturing procedure interchangeable with a conventional one.

IPC 1-7

H01J 1/14

IPC 8 full level

H01J 1/14 (2006.01); **H01J 1/144** (2006.01); **H01J 1/20** (2006.01); **H01J 9/04** (2006.01)

CPC (source: EP)

H01J 1/144 (2013.01)

Cited by

GB2294155B

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

EP 0639848 A1 19950222; **EP 0639848 B1 19970910**; CN 1061462 C 20010131; CN 1099185 A 19950222; DE 69313845 D1 19971016; DE 69313845 T2 19980402; JP H0765692 A 19950310; SG 44617 A1 19971219; TW 259877 B 19951011

DOCDB simple family (application)

EP 93310036 A 19931213; CN 93121498 A 19931229; DE 69313845 T 19931213; JP 7484094 A 19940413; SG 1996004185 A 19931213; TW 82110980 A 19931224