

Title (en)
Cathode with porous cathode element

Title (de)
Kathode mit einem porösen Kathodenelement

Title (fr)
Cathode muni d'un élément de cathode poreux

Publication
EP 0559283 B1 19961113 (DE)

Application
EP 93200563 A 19930301

Priority
DE 4206909 A 19920305

Abstract (en)
[origin: EP0559283A1] The invention relates to a cathode with a porous cathode element which contains a high-melting-point metal between two mutually opposite surfaces. At a given temperature, increased emission current densities are achieved, with a long life, in that the cathode element (1) contains particles (5, 7) which consist of high-melting-point metal and whose mean diameter is less than 1000 nm, and which contains pores which are accessible from one surface or from both surfaces. <IMAGE>

IPC 1-7
H01J 1/14; **H01J 1/28**

IPC 8 full level
H01J 1/14 (2006.01); **H01J 1/15** (2006.01); **H01J 1/28** (2006.01)

CPC (source: EP)
H01J 1/14 (2013.01)

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0559283 A1 19930908; **EP 0559283 B1 19961113**; DE 4206909 A1 19930909; DE 59304447 D1 19961219; JP H065198 A 19940114

DOCDB simple family (application)
EP 93200563 A 19930301; DE 4206909 A 19920305; DE 59304447 T 19930301; JP 4276893 A 19930303