

Title (en)

INDIRECTLY HEATED CATHODE ASSOCIATED WITH A WEHNELT CYLINDER

Publication

EP 0045932 A3 19820609 (DE)

Application

EP 81106086 A 19810804

Priority

DE 3029853 A 19800807

Abstract (en)

[origin: US4401919A] To achieve an optimum reduction of the warmup time of a Wehnelt cathode, by maintaining a good efficiency, it is proposed to use as a cathode a triode system arranged within the usual cathode sleeve, with the inside of the base plate, on the outside of which the electron-emitting layer is deposited, serving as the anode, so that the electron-emitting layer is heated by the anode dissipation of the triode system.

IPC 1-7

H01J 1/22; H01J 9/08; H01J 1/20; H01J 29/04

IPC 8 full level

H01J 1/20 (2006.01); **H01J 1/22** (2006.01); **H01J 9/08** (2006.01); **H01J 29/04** (2006.01)

CPC (source: EP US)

H01J 1/22 (2013.01 - EP US)

Citation (search report)

- [Y] DE 1589941 A1 19700416 - IBM
- [A] FR 2194043 A1 19740222 - JEOL LTD [JP]
- [Y] FR 2222747 A1 19741018 - INT STANDARD ELECTRIC CORP [US]
- [A] FR 1485124 A 19670616 - SIEMENS AG
- [A] DE 2134513 A1 19730125 - WESTINGHOUSE ELECTRIC CORP

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0045932 A2 19820217; **EP 0045932 A3 19820609**; **EP 0045932 B1 19860507**; CA 1182165 A 19850205; DE 3029853 A1 19820218; DE 3029853 C2 19820826; DE 3174562 D1 19860612; FI 71853 B 19861031; FI 71853 C 19870209; FI 812424 L 19820208; JP S57118333 A 19820723; US 4401919 A 19830830

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EP 81106086 A 19810804; CA 383269 A 19810805; DE 3029853 A 19800807; DE 3174562 T 19810804; FI 812424 A 19810805; JP 12314481 A 19810807; US 28332881 A 19810715