Title (en)

High power X-Ray tube

Title (de)

Hochleistungsröntgenröhre

Title (fr)

Tube à rayons x de haute puissance

Publication

EP 0991106 A3 20000503 (EN)

Application

EP 99123769 A 19911121

Priority

- EP 91310751 A 19911121
- US 61646490 A 19901121

Abstract (en)

[origin: EP0491471A2] A high power x-ray generating tube (2) for reducing the effects of excessive heating of the window (16) through which the x-rays (16) are transmitted. The x-ray generating tube consists of a metal center section (6) having a stationary cathode (8) and a rotating anode (10). Various embodiments are employed for deflecting secondary electrons back scattered from the anode away from the window to avoid overheating of the window. A grounded anode simplifes the mechanisms required to prevent overheating. <IMAGE>

IPC 1-7

H01J 35/16; H01J 35/04

IPC 8 full level

H01J 35/00 (2006.01); **H01J 35/04** (2006.01); **H01J 35/14** (2006.01); **H01J 35/16** (2006.01); **H01J 35/18** (2006.01)

CPC (source: EP US)

H01J 35/04 (2013.01 - EP); **H01J 35/16** (2013.01 - EP); **H01J 35/18** (2013.01 - EP US); H01J 2235/122 (2013.01 - EP); H01J 2235/1262 (2013.01 - EP); H01J 2235/167 (2013.01 - EP); H01J 2235/168 (2013.01 - EP)

Citation (search report)

- [A] US 4731804 A 19880315 - JENKINS RONALD [US]
- [A] US 2665391 A 19540105 - JAN BLEEKSMA
- [A] US 1946312 A 19340206 - COOLIDGE WILLIAM D
- [A] PATENT ABSTRACTS OF JAPAN vol. 007, no. 094 (E - 171) 20 April 1983 (1983-04-20)

Cited by

DE10346791B4; DE102005049455A1; DE102005049455B4; CN106504967A; US8351576B2; US7260181B2; WO2009127995A1

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