

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 simplifies 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 BLEEKSMAN  
• [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

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0491471 A2 19920624**; **EP 0491471 A3 19920930**; EP 0991106 A2 20000405; EP 0991106 A3 20000503; JP H04315752 A 19921106

DOCDB simple family (application)  
**EP 91310751 A 19911121**; EP 99123769 A 19911121; JP 33151691 A 19911121