

Title (en)  
X-RAY TUBE

Publication  
**EP 0173047 A3 19880316 (DE)**

Application  
**EP 85108795 A 19850713**

Priority  
DE 3431434 A 19840827

Abstract (en)  
[origin: EP0173047A2] An X-ray tube has a cathode, a grid, a perforated anode and a target, arranged behind the perforated anode, with an exit window on the side for the X-ray radiation. In addition, two deflection coils, in each case connected to an AC voltage source, are provided for lateral deflection of the electron beam in two planes. The response and frequency of the output voltages or output currents of the AC voltage source are dimensioned such that the impact point of the electron beam on the target flows through closely adjacent tracks, like the electron beam of a television tube, and thus sweeps over an area on the target which is turned towards the exit window as a macro-focus spot. By forming such a macro-focus spot by deflection of a micro-focus spot, an even intensity distribution is achieved over the complete extent of the macro-focus spot.  
<IMAGE>

IPC 1-7  
**H01J 35/30**; **H01J 35/14**

IPC 8 full level  
**H01J 35/04** (2006.01); **H01J 35/14** (2006.01); **H01J 35/30** (2006.01)

CPC (source: EP US)  
**H01J 35/04** (2013.01 - EP); **H01J 35/147** (2019.04 - EP US); **H01J 35/30** (2013.01 - EP)

Citation (search report)  
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• [Y] US 3176137 A 19650330 - ERNST-GUNTER HOFMANN, et al  
• [A] DE 2813657 A1 19791004 - BAHRAMI BAHRAM DR MED  
• [A] US 3852605 A 19741203 - WATANABE E, et al

Cited by  
EP4358112A3; EP1371970A3; US7106830B2

Designated contracting state (EPC)  
FR GB

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**EP 0173047 A2 19860305**; **EP 0173047 A3 19880316**; DE 3431434 A1 19860306; DK 368685 A 19860228; DK 368685 D0 19850814

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