

Title (en)

X-RAY TUBE COMPRISING A DEVICE FOR REDUCING THE DIVERGENCE OF ITS USEFUL BEAM

Publication

**EP 0003454 B1 19830511 (FR)**

Application

**EP 79400035 A 19790119**

Priority

FR 7801878 A 19780124

Abstract (en)

[origin: US4217517A] An x-ray tube providing a flat, fan-shaped uniform x-ray beam. The tube includes inside a vacuum glass envelope, a cathode or cathodes, a fixed or cylindrical rotating anode, and an anti-divergence diaphragm. The anti-divergence diaphragm has an opening, through which passes the beam. The walls of the opening have the shape of a sector of the fan-shaped beam in one plane (z-z'), and are flat in a perpendicular plane. A plurality of x-ray absorbing blades are positioned in the opening parallel to the fan-shaped side dividing the opening and the beam passing therethrough, thereby minimizing overall divergence of the beam. A plurality of cathodes may be used in the rotating anode tube, each separately focusable to provide beams of different intensity, and alternately operable.

IPC 1-7

**H01J 35/04**; **H01J 35/26**; **G21K 1/02**

IPC 8 full level

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CPC (source: EP US)

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