

Title (en)

X-RAY TUBE CATHODE CUP STRUCTURE FOR FOCAL SPOT DEFLECTION

Title (de)

RÖNTGENRÖHRENKATHODEN-KAPPENSTRUKTUR ZUR BRENNPUNKTABLENKUNG

Title (fr)

STRUCTURE DE COUPELLE DE CATHODE DE TUBE A RAYONS X POUR DEVIATION DE FOYER ELECTRONIQUE

Publication

EP 1449231 B1 20100623 (EN)

Application

EP 02786498 A 20021017

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- US 7860402 A 20020219

Abstract (en)

[origin: WO03044823A1] A cathode assembly (18, 216) for an x-ray tube (1) includes a base (60, 220) to which a filament (66) is mounted. A pair of deflectors (82, 84) is carried by the base for deflecting a beam (A) of electrons generated by the filament. Metal tubes (146, 147, 146', 147') are mounted in bores (106) of insulator blocks (104, 105). Metalized ends (150) of the insulator blocks are brazed into bores (122, 222, 224) in the base. A rod (130, 132) attached to the deflector is slid into the tube and the deflector's position and alignment are gauged and accurately set. The rod and tube are crimped to set the deflector position then welded.

IPC 8 full level

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