

Title (en)

X-RAY TUBE WITH A CYLINDRICAL METAL COMPONENT ENCLOSING THE ANODE AND CATHODE

Publication

EP 0215034 B1 19890208 (DE)

Application

EP 86901329 A 19860313

Priority

CH 136385 A 19850328

Abstract (en)

[origin: WO8605921A1] In order to increase the dielectrical resistance without resorting to internal shielding, the ring plate shaped ceramic insulators (13, 23) which carry the cathode (15) and the anode (25) at the axial inside end surfaces (16, 26) of the X-ray tube are stepped down in radial directions by a step (17, 27) in order to permit the forming of an axial hollow (18, 28) running in the form of a ring. On the ceramic insulator (13) which carries the cathode (15), the hollow (18) borders on the external periphery of the ceramic insulator. Conversely, the hollow (28) on the ceramic insulator (23) carrying the anode (25) borders on the inside periphery of the ceramic insulator. Each of the hollows is entirely filled with an insulation material (19, 29), the dielectric constant of which is less than that of the ceramic material. This insulation material (19, 29) is functionally part of a rubber-elastic ring plate (20, 30) which is pressed onto the outer axial end surface of the respective ceramic insulator (13, 23).

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