

Title (en)

PRECESSION ANODE X-RAY TUBE

Title (de)

RÖNTGENRÖHRE MIT ROTATIONSANODE

Title (fr)

TUBE À RAYONS X AVEC ANODE EN PRÉCESSION

Publication

EP 2225769 A1 20100908 (EN)

Application

EP 08854029 A 20081128

Priority

- GB 2008003979 W 20081128
- GB 0723513 A 20071130

Abstract (en)

[origin: GB2455140A] An X-ray tube 1 is described having a filament electrode 7 for generating electrons 5, and an anode 8 which comprises an elongate member 17 having a fixed point 16 relative to the sealed housing of the tube and an end that is moveable relative to the sealed housing. The longitudinal axis of the elongate member 17 in a rest position is laterally displaced relative to the path of the accelerating electrons, whereby a spherical target surface on the movable end of the member 17 may be moved along an elliptical oscillatory path (see Figs 6-8) relative to the impinging electrons 5 such that the spatial location of X-ray 13 generation in the tube is invariant relative to the sealed housing, thereby spreading localised heating caused by the X-ray generation over a greater portion of the target surface. The member 17 may be a flexible monolithic rod and is typically driven such that the anode precesses about the X-ray beam 13.

IPC 8 full level

H01J 35/28 (2006.01)

CPC (source: EP GB)

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Citation (search report)

See references of WO 2009068891A1

Citation (examination)

DE 1193616 B 19650526 - NAGEL & GOLLER

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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