Title (en)

Rotating anode X-ray tube.

Title (de)

Drehanode-Röntgenröhre.

Title (fr)

Tube à rayons X à anode rotative.

Publication

EP 0224073 A1 19870603 (DE)

Application

EP 86115161 A 19861031

Priority

DE 3540303 A 19851113

Abstract (en)

[origin: US4769831A] A rotating anode x-ray tube has an anode magnetically seated in a housing in non-contacting fashion. For non-contacting transmission and dissipation of the anode current, a hollow cylindrical rotor of the anode is provided with ribs on its interior surface. A stationary hollow cylinder is disposed inside of the rotor, the stationary hollow cylinder being also provided with ribs in registry with the ribs on the interior of the rotor, and being connected to the anode lead. Current is thereby transferred from the stationary cylinder to the rotating hollow cylinder by corona discharge.

Abstract (de)

Die Erfindung betrifft eine Drehanoden-Röntgenröhre mit einer magnetisch berührungsfrei gelagerten Anode (2). Zur kontaktlosen Übertragung des Anodenstromes ist der hohlzylindrische Rotor (6) der Anode (2) auf seiner inneren Mantelfläche mit Rippen (9) versehen. Im Innern des Rotors (6) liegt ein feststehender Hohlzylinder (11), der auf seiner äußeren Mantelfläche mit entsprechenden Rippen (10) versehen und mit der Anodenzuleitung (12) verbunden ist.

IPC 1-7

H01J 35/10

IPC 8 full level

H01J 35/10 (2006.01); **H05G 1/66** (2006.01)

CPC (source: EP US)

H01J 35/103 (2013.01 - EP US)

Citation (search report)

- [A] EP 0132180 A1 19850123 - THOMSON CGR [FR]
- [A] EP 0126668 A1 19841128 - THOMSON CSF [FR]
- [A] FR 2494496 A1 19820521 - SIEMENS AG [DE]
- [A] FR 2494497 A1 19820521 - SIEMENS AG [DE]
- [A] DE 2716069 B2 19810108

Designated contracting state (EPC)

CH DE FR LI

DOCDB simple family (publication)

EP 0224073 A1 19870603; **EP 0224073 B1 19890524**; DE 3540303 A1 19870514; DE 3663604 D1 19890629; JP S6282559 U 19870526; US 4769831 A 19880906

DOCDB simple family (application)

EP 86115161 A 19861031; DE 3540303 A 19851113; DE 3663604 T 19861031; JP 17214486 U 19861110; US 91227686 A 19860929