

Title (en)
ROTATING ANODE X-RAY TUBE

Publication
EP 0081755 A3 19841128 (EN)

Application
EP 82111142 A 19821202

Priority
US 32675281 A 19811202

Abstract (en)
[origin: EP0081755A2] The X-ray tube includes, within an evacuated tube envelope, a cathode, a rotatably mounted anode and circuitry connected to the anode and cathode for producing X-rays which are emitted through a window in the envelope. A variable speed drive is provided for rotating the anode and includes an internal rotor mounted within and adjacent a wall of the envelope, this rotor being mounted to rotate with the anode and including at least one permanent magnet having at least two poles. The drive also includes a stator positioned on the exterior of the tube envelope surrounding the rotor and winding to create a magnetic field driving the internal rotor. The tube envelope is pref. provided with ferrous segments which form a part of flux loops coupling the internal rotor with the external stator windings.

IPC 1-7
H01J 35/10; **H05G 1/66**

IPC 8 full level
H01J 35/10 (2006.01); **H05G 1/00** (2006.01); **H05G 1/66** (2006.01)

CPC (source: EP US)
H01J 35/1017 (2019.04 - EP US); **H05G 1/66** (2013.01 - EP); **H01J 2235/1026** (2013.01 - EP)

Citation (search report)
• [Y] US 3619696 A 19711109 - LUCIA VICTOR E DE
• [Y] US 4162420 A 19790724 - GRADY JOHN K [US]
• [A] US 4225787 A 19800930 - SHAPIRO JONATHAN S, et al
• [A] US 3963930 A 19760615 - FIOCCA LOUIS L, et al
• [A] GB 1513596 A 19780607 - HITACHI LTD
• [A] US 3518434 A 19700630 - LOMBARDO DANIEL F

Cited by
US4577339A; EP1132942A3; EP0319244A3

Designated contracting state (EPC)
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