

Title (en)
Rotating anode X-ray tube.

Title (de)
Drehanodenröntgenröhre.

Title (fr)
Tube à rayons X à anode rotative.

Publication
EP 0081755 A2 19830622 (EN)

Application
EP 82111142 A 19821202

Priority
US 32675281 A 19811202

Abstract (en)
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

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)

Cited by
US4577339A; EP1132942A3; EP0319244A3

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0081755 A2 19830622; EP 0081755 A3 19841128; DK 533882 A 19830603; GR 77850 B 19840925; JP S58126654 A 19830728

DOCDB simple family (application)
EP 82111142 A 19821202; DK 533882 A 19821201; GR 820169966 A 19821202; JP 21071282 A 19821202