

Title (en)

X-RAY EMITTER

Publication

EP 0224786 B1 19900228 (DE)

Application

EP 86115942 A 19861117

Priority

DE 3542127 A 19851128

Abstract (en)

[origin: US4819260A] An x-radiator has a rotating anode on which electrons emitted by a thermionic cathode are incident to produce an x-ray beam. The electron stream is incident on the anode at a focal spot. The focal spot on the anode is prevented from migrating laterally from a selected point by a magnetic field generated by a coil acting on the electron stream. The position of the emitted x-ray beam is monitored by a detector, and upon a change in position of the x-ray beam, corresponding to a migration of the focal spot, the detector supplies a signal to a control unit for the coil which adjusts the magnetic field to maintain the electron stream at the desired focal spot.

IPC 1-7

H01J 35/14; H01J 35/30; H05G 1/52

IPC 8 full level

H01J 35/10 (2006.01); **H01J 35/14** (2006.01); **H01J 35/30** (2006.01); **H05G 1/26** (2006.01); **H05G 1/52** (2006.01)

CPC (source: EP US)

H01J 35/153 (2019.04 - EP US); **H01J 35/305** (2013.01 - EP US); **H05G 1/26** (2013.01 - EP US); **H05G 1/52** (2013.01 - EP US)

Cited by

US2012275562A1; DE19832972A1; EP0715333A1; EP1087419A3; WO2011083416A1; WO0025341A1

Designated contracting state (EPC)

CH DE FR LI

DOCDB simple family (publication)

EP 0224786 A1 19870610; EP 0224786 B1 19900228; DE 3542127 A1 19870604; DE 3669233 D1 19900405; JP H0334828 Y2 19910724; JP S6292554 U 19870613; US 4819260 A 19890404

DOCDB simple family (application)

EP 86115942 A 19861117; DE 3542127 A 19851128; DE 3669233 T 19861117; JP 18038786 U 19861121; US 23137088 A 19880812