

Title (en)
Rotating anode x-ray tube

Title (de)
Röntgenröhre mit Rotationsanode

Title (fr)
Tube à rayons X avec une anode rotative

Publication
EP 1675152 B1 20090708 (EN)

Application
EP 05027757 A 20051219

Priority
JP 2004369816 A 20041221

Abstract (en)
[origin: EP1675152A2] A rotating anode (10) has an improved separator (52) arranged within a coolant passage (50) which is formed inside the rotating anode. A cylindrical target has an outer periphery whose axial length (L3) is in a range between 20 and 100 millimeters. The separator (52) has a proximal surface (82), a distance (G) between the proximal surface (82) and a must-cooled surface (92) being in a range between 0.1 and 3.0 millimeters. The axial length (L2) of the proximal surface (82) is not greater than five millimeters. Thus, since the axial length (L2) of the proximal surface (82) is set to be small, the load of a rotary driving source would be not so large even with a high-speed rotation of the rotating anode (10). When using an electric motor as the rotary driving source, it is not necessary to exchange the capacity of a motor diver for a larger one.

IPC 8 full level
H01J 35/10 (2006.01)

CPC (source: EP US)
H01J 35/106 (2013.01 - EP US); **H01J 2235/1204** (2013.01 - EP); **H01J 2235/127** (2013.01 - EP); **H01J 2235/1283** (2013.01 - EP)

Cited by
CN111243924A; US2022085693A1; WO2009109843A1; WO2020232253A1

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
EP 1675152 A2 20060628; **EP 1675152 A3 20080521**; **EP 1675152 B1 20090708**; DE 602005015284 D1 20090820;
JP 2006179240 A 20060706; JP 4210645 B2 20090121

DOCDB simple family (application)
EP 05027757 A 20051219; DE 602005015284 T 20051219; JP 2004369816 A 20041221