

Title (en)

Compact source of a high-brightness X-ray beam

Title (de)

Kompakte Quelle für Röntgenstrahlenbündel sehr großer Helligkeit

Title (fr)

Source compacte à faisceau de rayons X de très grande brillance

Publication

**EP 1804271 B1 20100317 (FR)**

Application

**EP 06127095 A 20061222**

Priority

FR 0650007 A 20060103

Abstract (en)

[origin: EP1804271A2] The device has two cooling elements (8, 9) fixed to a vacuum pump stator (1b) or a sealed peripheral casing (1f) opposite to one of two main radial faces (2b, 2c) of a rotary anode (2) for absorbing radiated heat energy emitted by the anode during operation. The rotary anode is provided in a vacuum enclosure (7), driven in rotation around a rotation axis and integrated to a rotor (1a) of a vacuum pump (1). The anode receives, on its periphery (2a), electron flow (4) from a cathode (3) to emit X-rays (6) towards an outlet (11).

IPC 8 full level

**H01J 35/10** (2006.01); **H01J 35/14** (2006.01); **H01J 35/26** (2006.01)

CPC (source: EP KR US)

**F04D 19/042** (2013.01 - EP KR US); **H01J 35/103** (2013.01 - EP KR US); **H01J 35/106** (2013.01 - EP KR US); **H01J 35/14** (2013.01 - EP US); **H01J 35/147** (2019.04 - KR); **H01J 35/20** (2013.01 - EP KR US); **H01J 35/26** (2013.01 - EP KR US); **H05G 1/02** (2013.01 - KR)

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