

Title (en)

X-ray source with liquid metal target

Title (de)

Röntgenstrahler mit einem Flüssigmetall-Target

Title (fr)

Source à rayons X avec cible à métal liquide

Publication

EP 0957506 B1 20051116 (DE)

Application

EP 99201442 A 19990507

Priority

DE 19821939 A 19980515

Abstract (en)

[origin: EP0957506A1] The X-ray radiator has an electron source (3) for emitting electrons. It also has a target which emits X-ray beams when struck by electrons. The target is made of a liquid metal e.g. mercury which circulates e.g. by means of a pump, in the operating state of the emitter. A window (2) is disposed between the electron source and the target. Electrons pass through the window and the window is cooled by the circulating liquid metal.

IPC 1-7

H01J 35/18; **H01J 35/08**

IPC 8 full level

H01J 35/00 (2006.01); **H01J 35/08** (2006.01); **H01J 35/18** (2006.01)

CPC (source: EP KR US)

H01J 35/1017 (2019.04 - KR); **H01J 35/18** (2013.01 - EP KR US); **H01J 35/186** (2019.04 - EP US); **H01J 2235/082** (2013.01 - EP KR US)

Cited by

EP1028449A1; EP1102302A1; EP1215707A3; EP1197983A1; EP1197470A3; CN106061388A; US6625254B2; WO2005091326A3; WO0211499A1

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