Title (en)

ROTARY X-RAY ANODE HAVING AN INTEGRATED LIQUID METAL BEARING OUTER SHELL

Title (de)

RÖNTGENDREHANODE MIT INTEGRIERTER FLÜSSIGMETALLLAGER-AUßENSCHALE

Title (fr)

ANODE ROTATIVE À RAYONS X AYANT UNE COQUE EXTERNE DE PALIER MÉTALLIQUE LIQUIDE INTÉGRÉ

Publication

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Application

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Abstract (en)

[origin: WO2021163741A1] The present invention relates to a rotary x-ray anode having an integrated liquid metal bearing outer shell, comprising an anode disc (5) made of Mo or a Mo-based alloy and having a hole (12), which is formed centrally in the region of the axis of rotation (4) and extends in the axial direction at least through part of the anode disc (5), and a bearing bushing (20) made of Mo or a Mo-based alloy. The bearing bushing (20) is connected to the anode disc (5) via an integral bond (21) in such a way that the inner wall (22) of the bearing bushing (20) extends the hole (12) in the anode disc (5), and that at least one axial portion of an inner wall (14) of the hole (12) in the anode disc (5) and at least one axial portion of an inner wall (22) of the bearing bushing (20) are formed circumferentially as a liquid metal bearing running surface and form at least part of a liquid metal bearing outer shell. The present invention also relates to a corresponding production method.

IPC 8 full level

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