

Title (en)
METAL JET X-RAY TUBE

Title (de)
METALLSTRAHLRÖNTGENRÖHRE

Title (fr)
TUBE À RAYONS X À FAISCEAU MÉTALLIQUE

Publication
EP 3213337 A1 20170906 (DE)

Application
EP 15820839 A 20151218

Priority
• DE 102014226813 A 20141222
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Abstract (en)
[origin: WO2016102370A1] The invention relates to a metal jet x-ray tube which is less affected by the problem of the power density at the point of impact of the electron beam on the anode component than conventional tubes. For this purpose the metal jet x-ray tube has a metal jet (6) as anode component (7), which metal jet is so thin that an electron beam (4) impinging on the metal jet (6) is only partially decelerated by the metal jet. Furthermore a blade cathode is provided as a cathode component (3), which blade cathode comprises a cathode blade (10) directed with a slight inclination downwards in the direction of the liquid metal jet (6) of the anode component (7).

IPC 8 full level
H01J 35/12 (2006.01); **H01J 35/06** (2006.01)

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Citation (search report)
See references of WO 2016102370A1

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DE 102014226813 A1 20160623; CN 107004552 A 20170801; CN 107004552 B 20181218; EP 3213337 A1 20170906; EP 3213337 B1 20201007; US 10586673 B2 20200310; US 2017345611 A1 20171130; WO 2016102370 A1 20160630

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