

Title (en)

PLASMA-BASED GENERATION OF X-RAY RADIATION WITH A STRATIFORM TARGET MATERIAL

Title (de)

PLASMA-BASIERTE ERZEUGUNG VON RÖNTGENSTRAHLUNG MIT EINEM SCHICHTFÖRMIGEN TARGETMATERIAL

Title (fr)

PRODUCTION DE RAYONS X SELON DES PROCEDES FONDES SUR L'UTILISATION DE PLASMA, AVEC UN MATERIAU CIBLE EN COUCHES

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Application

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Abstract (en)

[origin: WO2004110112A1] The invention relates to methods for effecting the plasma-based generation of X-ray radiation involving the following steps: providing a target material (50) in the form of a free flow pattern (51) in a vacuum chamber (20), and; irradiating the target material (50) in order to create a plasma state in which the X-ray radiation is emitted. The flow pattern (51) is shaped in such a manner that the target material has, at least at the site of irradiation, a surface (52) with a local curvature minimum. The invention also relates to devices for carrying out these methods and, in particular, to X-ray sources for effecting the plasma-based generation of X-ray radiation.

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