

Title (en)
HIGH-DOSE X-RAY TUBE

Title (de)
RÖNTGENRÖHRE FÜR HOHE DOSISLEISTUNGEN

Title (fr)
TUBE A RAYONS X POUR EMISSIONS DE DOSES ELEVEES

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Application
EP 04741611 A 20040519

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Abstract (en)
[origin: WO2005117058A1] The invention relates to an X-ray tube (11) which comprises a cathode emitting electrons (e-) into an interior chamber (40) that is subjected to a vacuum, and a target (31, 32), configured as an anode, for generating high-dose X-radiation (gamma). The cathode comprises at least one cold cathode (21, 22, 23) based on an electron (e-) emitting material having a field-enhancing structure (70). The invention especially relates to an X-ray tube (11) having a cold cathode (21, 22, 23) that comprises at least one support layer (201) for supporting the electron (e-) emitting material. The emission area of the cold cathode (21, 22, 23) is defined by the shape of the support layer (201).

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