Title (en)

X-RAY RADIATION GENERATOR

Title (de)

RÖNTGENSTRAHLUNGSERZEUGER

Title (fr)

GÉNÉRATEUR DE RAYONS X

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2016066810A1] The present invention relates to an x-ray tube having a self-heating anode which carries during operation a high voltage, preferably more than 120 kV, particularly preferably more than 300 kV, wherein a cooling body (4) is connected to the anode in a heat-conductive manner, said cooling body having a base body (10.4) of a metal with a heat-absorbing surface for coupling with the anode as a heat source and a heat-dissipating surface (14.4) which is enlarged by heat-dissipating elements (16.4) connected to the base body (10.4). According to the invention, the heat-dissipating elements (16.4) are made of an electrically insulating material which has a thermal conductivity in the order of magnitude of the metal of the base body (10.4), wherein the heat-dissipating elements (16.4) have a height (H) starting from the base body (10.4) of the cooling body (4) such that a sufficient dielectric strength with respect to the surroundings of the x-ray tube is achieved whilst taking into account the high voltage and an insulation medium surrounding the heat-dissipating elements (16.4).

IPC 8 full level

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