

Title (en)

COMPACT SOURCE FOR GENERATING IONIZING RAYS

Title (de)

KOMPAKTE QUELLE ZUR ERZEUGUNG VON IONISIERENDEN STRAHLEN

Title (fr)

SOURCE GENERATRICE DE RAYONS IONISANTS COMPACTE

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Application

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Abstract (en)

[origin: WO2019011993A1] The invention relates to a source for generating ionizing rays, and in particular X-rays, an assembly comprising a plurality of sources and a method for producing the source. The source comprises: · a vacuum chamber (12), · a cathode (14) that is able to emit an electron beam (18) into the chamber (12), · an anode (16) that receives the electron beam and that comprises a target (20) that is able to generate ionizing radiation (22) from the energy received from the electron beam (18), · an electrode (24) that is placed in the vicinity of the cathode (14) and that allows the electron beam 18 to be focused, · a stopper (32) ensuring the tightness of the vacuum chamber (12), · a mechanical part (28) made of dielectric material and forming a portion of the vacuum chamber; the stopper (32) is fastened to the mechanical part (28) by means of a conductive solder film (42) used to electrically connect the electrode (24).

IPC 8 full level

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