

Title (en)
MODULAR X-RAY TUBE AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
MODULARE RÖNTGENRÖHRE UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
TUBE A RAYONS X MODULAIRE ET PROCEDE DE FABRICATION

Publication
EP 1714298 B1 20081119 (DE)

Application
EP 03773415 A 20031202

Priority
CH 0300796 W 20031202

Abstract (en)
[origin: WO2005055270A1] A modular X-ray tube (13) and a method for the production thereof, wherein an anode (20) and a cathode (30) are arranged in a vacuumized inner area (40) such that they are located opposite each other, wherein electrons (e⁻) are produced by the cathode (30) and X-rays (Y) are produced by the anode (20). The X-ray tube (10) comprises several additional acceleration modules (41, ,45) and each acceleration module (41, ,45) comprises at least one potential-carrying acceleration electrode (20/30/423/433/443). A first acceleration module (41) comprises the cathode (30). A second acceleration module (45) comprises the anode (20). The X-ray tube (10) also comprises at least one other acceleration module (42, ,44). The X-ray tube can, more particularly, possess a re-closeable vacuum valve, enabling defective parts of the tube (10) to be replaced in a simple manner or enabling the tube (10) to be modified in a modular manner.

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