

Title (en)

X-RAY DEVICE AND METHOD OF APPLYING X-RAY RADIATION

Title (de)

RÖNTGENVORRICHTUNG UND VERFAHREN ZUR ANWENDUNG VON RÖNTGENSTRAHLUNG

Title (fr)

DISPOSITIF À RAYONS X ET PROCÉDÉ D'APPLICATION DE RAYONNEMENT DE RAYONS X

Publication

EP 3751593 A1 20201216 (EN)

Application

EP 19179329 A 20190611

Priority

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Abstract (en)

The present invention provides an X-ray device (1) comprising a housing (2) configured to provide a vacuum therein; a cathode (3) arranged inside the housing (2) and configured to emit electrons; an anode (4) arranged inside the housing (2) and configured to produce x-ray radiation when impacted by electrons emitted by the cathode (3); and an application device (5) configured to apply the x-ray radiation produced by the anode (4); wherein the cathode (3) comprises a material transparent to x-ray radiation and is arranged such that x-ray radiation produced by the anode (4) passes through the cathode (3). The present invention can be used in medicinal imaging, therapy, spectroscopy, and the like. Geometries and configurations can be improved compared to previously known x-ray devices when it comes to requirements for space, materials used, complexity of electrical wiring, distance between cathode and anode, and providing supplementary functions.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

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Citation (search report)

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Designated contracting state (EPC)

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