

Title (en)

COMPACT, IONISING RAY-GENERATING SOURCE, ASSEMBLY COMPRISING A PLURALITY OF SOURCES AND METHOD FOR PRODUCING THE SOURCE

Title (de)

KOMPAKTE QUELLE MIT ERZEUGUNG VON IONISIERENDEN STRAHLEN, ANORDNUNG MIT EINER VIELZAHL VON QUELLEN UND VERFAHREN ZUR HERSTELLUNG DER QUELLE

Title (fr)

SOURCE GÉNÉRATRICE DE RAYONS IONISANTS COMPACTE, ENSEMBLE COMPRENANT PLUSIEURS SOURCES ET PROCÉDÉ DE RÉALISATION DE LA SOURCE

Publication

EP 3652773 A1 20200520 (FR)

Application

EP 18736941 A 20180711

Priority

- FR 1700741 A 20170711
- EP 2018068779 W 20180711

Abstract (en)

[origin: WO2019011980A1] The invention relates to a source generating ionising rays, and in particular X-rays, an assembly comprising a plurality of sources and a method for producing the source. The ionising ray-generating source comprises: · a vacuum chamber (12), · a cathode (14) capable of emitting an electron beam (18) in the vacuum chamber (12), · an anode (16) receiving the electron beam (18) and comprising a target (20) capable of generating an ionising radiation (22) from the energy received from the electron beam (18), and · an electrode (24) arranged in the vicinity of the cathode (14) and forming a Wehnelt electrode. According to the invention, the electrode (24) is composed of a conductive surface adhering to a concave face (26) of a dielectric material.

IPC 8 full level

H01J 35/14 (2006.01); **H01J 35/06** (2006.01)

CPC (source: EP IL KR US)

H01J 9/12 (2013.01 - IL US); **H01J 35/065** (2013.01 - EP IL KR US); **H01J 35/066** (2019.05 - EP IL); **H01J 35/112** (2019.05 - IL US); **H01J 35/14** (2013.01 - IL KR US); **H01J 35/147** (2019.05 - EP IL US); **H01J 35/153** (2019.05 - IL US); **H01J 2235/02** (2013.01 - IL US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019011980 A1 20190117; AU 2018298781 A1 20191219; AU 2018298781 B2 20230302; CN 110870036 A 20200306; CN 110870036 B 20230602; EP 3652773 A1 20200520; EP 3652773 B1 20210526; ES 2881314 T3 20211129; FR 3069098 A1 20190118; FR 3069098 B1 20201106; IL 271796 A 20200227; IL 271796 B1 20240201; IL 271796 B2 20240601; JP 2020526868 A 20200831; JP 7073407 B2 20220523; KR 102584667 B1 20231005; KR 20200024211 A 20200306; SG 11201912205Q A 20200130; TW 201909226 A 20190301; TW I783006 B 20221111; US 11004647 B2 20210511; US 2020203113 A1 20200625

DOCDB simple family (application)

EP 2018068779 W 20180711; AU 2018298781 A 20180711; CN 201880045808 A 20180711; EP 18736941 A 20180711; ES 18736941 T 20180711; FR 1700741 A 20170711; IL 27179620 A 20200101; JP 2019561262 A 20180711; KR 20207000373 A 20180711; SG 11201912205Q A 20180711; TW 107123868 A 20180710; US 201816612738 A 20180711