Title (en)

SCATTERED ELECTRON CAPTURING FOR ROTATING ANODE X-RAY TUBES

Title (de)

STREUELEKTRONENEINFANG FÜR ROTIERENDE ANODENRÖNTGENRÖHREN

Title (fr)

CAPTURE D'ÉLECTRONS DISPERSÉS POUR TUBES À RAYONS X À ANODE TOURNANTE

Publication

EP 3800656 A1 20210407 (EN)

Application

EP 19201246 A 20191003

Priority

EP 19201246 A 20191003

Abstract (en)

An anode (100) for a rotating anode X-ray tube is proposed, wherein the anode comprises an inner and/or an outer electron capturing element (120, 110). The inner and/or outer electron capturing elements are configured to capture electrons backscattered from the focal track of the anode. The outer electron capturing element (110) comprises an X-ray transparent member (114) such that X-rays can propagate in a radial direction through the X-ray transparent member. The inner electron capturing element (120) is closer to the axis of rotation (103) of the anode than the focal track, whereas the outer electron capturing element (110) has a larger distance to the axis of rotation (103) than the focal track.

IPC 8 full level

H01J 35/10 (2006.01)

CPC (source: EP)

H01J 35/10 (2013.01); H01J 2235/168 (2013.01)

Citation (search report)

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- [XI] US 5493599 A 19960220 - MATTSON RODNEY A [US]
- [X] JP S52124890 A 19771020 - TOKYO SHIBAURA ELECTRIC CO
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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)

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