

Title (en)

CONTROL DEVICE FOR AN X-RAY TUBE AND METHOD FOR OPERATING AN X-RAY TUBE

Title (de)

ANSTEUERVORRICHTUNG FÜR EINE RÖNTGENRÖHRE UND VERFAHREN ZUM BETRIEB EINER RÖNTGENRÖHRE

Title (fr)

DISPOSITIF DE COMMANDE POUR UN TUBE À RAYONS X ET PROCÉDÉ DE FONCTIONNEMENT D'UN TUBE À RAYONS X

Publication

**EP 3677100 A2 20200708 (DE)**

Application

**EP 18765807 A 20180831**

Priority

- DE 102017008264 A 20170902
- EP 2018025225 W 20180831

Abstract (en)

[origin: WO2019042587A2] The invention relates to a control device for an X-ray tube (2), comprising a housing (29) that is designed as a shield, in which an anode current regulating unit (1) is arranged and which is connected to a cathode power supply unit (18), a plurality of cathode voltage switches (20,21,22,23,24) which are to be connected to in each case a cathode (4), and a programmable assembly (25), in which the control of the cathodes (4) is determined. The cathode power supply unit (18), the cathode voltage switches (20,21,22,23,24) and the programmable assembly (18) are also arranged in the housing (29).

IPC 8 full level

**H05G 1/26** (2006.01); **H05G 1/20** (2006.01); **H05G 1/22** (2006.01); **H05G 1/34** (2006.01)

CPC (source: EP US)

**H05G 1/04** (2013.01 - US); **H05G 1/20** (2013.01 - EP US); **H05G 1/22** (2013.01 - EP US); **H05G 1/265** (2013.01 - EP); **H05G 1/34** (2013.01 - EP US); **H05G 1/70** (2013.01 - EP US); **H01J 35/147** (2019.05 - EP)

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 2019042587 A2 20190307**; **WO 2019042587 A3 20190425**; **WO 2019042587 A8 20200206**; CN 111602470 A 20200828; CN 111602470 B 20240326; EP 3677100 A2 20200708; JP 2020532089 A 20201105; US 11558950 B2 20230117; US 2020367350 A1 20201119

DOCDB simple family (application)

**EP 2018025225 W 20180831**; CN 201880056386 A 20180831; EP 18765807 A 20180831; JP 2020533345 A 20180831; US 201816643526 A 20180831