

Title (en)

COOLING DEVICE FOR X-RAY GENERATORS

Title (de)

KÜHLVORRICHTUNG FÜR RÖNTGENGENERATOREN

Title (fr)

DISPOSITIF DE REFROIDISSEMENT POUR GÉNÉRATEURS DE RAYONS X

Publication

**EP 3593601 A1 20200115 (DE)**

Application

**EP 18714134 A 20180306**

Priority

- DE 102017002210 A 20170308
- EP 2018055393 W 20180306

Abstract (en)

[origin: WO2018162437A1] The invention relates to a cooling device for x-ray tubes in x-ray generators, comprising a housing with a central receiving device for receiving an x-ray tube with an inlet opening for supplying a gaseous coolant, an outlet opening for discharging the gaseous coolant, and a gas-conducting channel which extends between the inlet opening and the outlet opening. The gas-conducting channel is designed to conduct the gaseous coolant directly by the high-voltage x-ray tube housing during operation. The gas-conducting channel additionally extends in a helical manner about the x-ray tubes such that the electric potential applied to the x-ray tubes drops to zero potential along the gas-conducting channel.

IPC 8 full level

**H05G 1/02** (2006.01)

CPC (source: EP KR RU US)

**H05G 1/025** (2013.01 - EP KR RU US); **H05G 1/04** (2013.01 - US)

Citation (search report)

See references of WO 2018162437A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2018162437 A1 20180913**; BR 112019016525 A2 20200331; CA 3051517 A1 20180913; CA 3051517 C 20211228; CN 110383954 A 20191025; CN 110383954 B 20230620; DE 102017002210 A1 20180913; EP 3593601 A1 20200115; JP 2020509550 A 20200326; JP 6805362 B2 20201223; KR 102335270 B1 20211203; KR 20190117666 A 20191016; MX 2019010559 A 20191024; RU 2727168 C1 20200721; US 10973111 B2 20210406; US 2020008287 A1 20200102

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