

Title (en)

Heat exchanger for a diagnostic X-ray generator with rotary anode type X-ray tube

Title (de)

Wärmetauscher für einen diagnostischen Röntgengenerator mit einer Drehanodenröhre

Title (fr)

Echangeur de chaleur pour un générateur de diagnostic à rayons X avec un tube radiogène à anode tournante

Publication

**EP 1775541 A1 20070418 (DE)**

Application

**EP 06019776 A 20060921**

Priority

DE 102005049455 A 20051015

Abstract (en)

The heat exchanger has a double-walled metallic body that is provided, where a cooling medium flows through the metallic body. The metallic body encircles a rotary anode tube (1) in a distance of less than 20 millimeter in the region of an anode plate, where an inner side of the metallic body is provided with an infrared absorbing coating. The inner side is broken by a window (16) for an X-ray utilizable bundle (17). A circulation pump (22) forces a flow of oil at boundary surfaces of the heat exchanger for oil filling (21).

IPC 8 full level

**F28F 13/18** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP US)

**F28F 13/125** (2013.01 - EP US); **F28F 13/18** (2013.01 - EP US); **F28F 2245/06** (2013.01 - EP US)

Citation (search report)

- [DA] DE 10342435 A1 20050504 - ZIEHM IMAGING GMBH [DE]
- [DA] DE 10222267 A1 20031204 - INSTRUMENTARIUM IMAGING ZIEHM [DE]
- [A] WO 0166490 A2 20010913 - UT BATTELLE LLC [US]
- [A] GB 2323921 A 19981007 - NEC CORP [JP]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1775541 A1 20070418**; DE 102005049455 A1 20070419; DE 102005049455 B4 20071122; US 2007140430 A1 20070621; US 7499525 B2 20090303

DOCDB simple family (application)

**EP 06019776 A 20060921**; DE 102005049455 A 20051015; US 52872406 A 20060926