

Title (en)
LIQUID-COOLED X-RAY EMITTER WITH A CIRCULATED-COOLING SYSTEM

Publication
EP 0248976 B1 19900523 (DE)

Application
EP 87101805 A 19870210

Priority
DE 8615918 U 19860613

Abstract (en)
[origin: US4768212A] An x-radiator has a housing in which an x-ray tube is disposed surrounded by an electrically insulating coolant and having a circulation system for the coolant. The housing is substantially filled with the coolant, and a heat exchanger is disposed outside of the housing through which the coolant is pumped. *) The direction of flow of the coolant is automatically reversible dependent on the three-dimensional position of the x-radiator. *) For aiding in dissipating heat from said coolant a cooling fluid is circulated through the heat exchanger isolated from the coolant.

IPC 1-7
H01J 35/10; H01J 35/12; H05G 1/04

IPC 8 full level
F28D 7/04 (2006.01); **H01J 35/00** (2006.01); **H01J 35/10** (2006.01); **H01J 35/12** (2006.01); **H05G 1/02** (2006.01); **H05G 1/04** (2006.01)

CPC (source: EP US)
H01J 35/106 (2013.01 - EP US); **H05G 1/025** (2013.01 - EP US); **H05G 1/04** (2013.01 - EP US)

Citation (examination)
PATENT ABSTRACTS OF JAPAN, Band 9, Nr. 266 (E352)[1989], 23. October 1985; & JP-A-60 112 296 (HITACHI SEISAKUSHO K.K.) 18-06-1985

Cited by
CN104465278A; FR2675628A1; FR2736239A1; DE4101777A1; EP1475819A3; WO0139557A1; WO9912183A1

Designated contracting state (EPC)
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