

Title (en)

A SYSTEM FOR COOLING OF ELECTRONIC EQUIPMENT

Title (de)

SYSTEM ZUR KÜHLUNG EINER ELEKTRONISCHEN AUSRÜSTUNG

Title (fr)

SYSTÈME DE REFROIDISSEMENT D'UN ÉQUIPEMENT ÉLECTRONIQUE

Publication

EP 3163241 A1 20170503 (EN)

Application

EP 15191444 A 20151026

Priority

EP 15191444 A 20151026

Abstract (en)

A system for cooling of electronic equipment, comprising two heat transferring loops (1, 10) each of which including a heat dissipation unit (2; 20) for receiving heat from at least one electronic component (3; 30), a radiator (4; 40) receiving heat from the heat dissipation unit (2; 20) and a fluid loop (5a, 5b; 50a, 50b) connected to both ends of the heat dissipation unit (2; 20) and the radiator (4; 40), respectively, wherein pressurized fluid is arranged to flow in the fluid loop (5a, 5b; 50a, 50b) and through the heat dissipation unit (2; 20) and the radiator (4; 40); and a fluid flow connection (100) between the dissipation units (2, 20) and between the fluid loops (5a, 5b; 50a, 50b) for oscillating fluid movement between the heat dissipation units (2, 20) and between the fluid loops for forcing generated vapour slug (6, 60) alternately from either heat dissipation unit (2, 20) to the respective radiator (4, 40).

IPC 8 full level

F28D 15/02 (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP)

F28D 15/0266 (2013.01); **F28F 9/26** (2013.01)

Citation (search report)

- [XY] US 2015060019 A1 20150305 - TSENG CHIH-YUNG [TW]
- [A] EP 2198681 A1 20100623 - LEE SANG-CHEOL [KR]
- [A] WO 2011130313 A1 20111020 - UNIV MISSOURI [US], et al
- [A] US 5219020 A 19930615 - AKACHI HISATERU [JP]
- [A] EP 2587906 A1 20130501 - ABB TECHNOLOGY AG [CH]
- [A] EP 2645040 A1 20131002 - ABB RESEARCH LTD [CH]
- [Y] CHEN K S ET AL: "Heat transfer performance of a double-loop separate-type heat pipe: Measurement results", ENERGY CONVERSION AND MANAGEMENT, ELSEVIER SCIENCE PUBLISHERS, OXFORD, GB, vol. 35, no. 12, 1 December 1994 (1994-12-01), pages 1131 - 1141, XP023635891, ISSN: 0196-8904, [retrieved on 19941201], DOI: 10.1016/0196-8904(94)90017-5

Cited by

CN113365473A

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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