

Title (en)

DEVICE FOR COOLING AN ELECTRICAL COMPONENT AND PRODUCTION METHOD THEREOF

Title (de)

EINRICHTUNG ZUM KÜHLEN EINER ELEKTRISCHEN KOMPONENTE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

DISPOSITIF DE REFROIDISSEMENT D'UN COMPOSANT ELECTRIQUE ET PROCEDE DE FABRICATION DE CE DISPOSITIF

Publication

EP 1685604 A1 20060802 (FR)

Application

EP 04805460 A 20041116

Priority

- FR 2004002923 W 20041116
- FR 0313497 A 20031118

Abstract (en)

[origin: FR2862424A1] The device has a radiator (7) connected thermally to an exposed metallic conductive part (5) of an exothermic electric component, where the part dissipates heat from the component. The radiator and the part are connected by a thermal drain port (10) formed by an autogenous sintering of the part and the radiator. The port is formed between a dissipating side (5A) and a radiator side (7A). An independent claim is also included for a process of fabricating a cooling device.

IPC 8 full level

H01L 23/36 (2006.01); **H01L 33/64** (2010.01)

CPC (source: EP US)

H01L 23/36 (2013.01 - EP US); **H01L 33/64** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US); **H01L 2933/0075** (2013.01 - EP US)

C-Set (source: EP US)

H01L 2924/0002 + **H01L 2924/00**

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DOCDB simple family (publication)

FR 2862424 A1 20050520; FR 2862424 B1 20061020; CN 100459190 C 20090204; CN 1918715 A 20070221; EP 1685604 A1 20060802; JP 2007535801 A 20071206; US 2007147009 A1 20070628; WO 2005050747 A1 20050602

DOCDB simple family (application)

FR 0313497 A 20031118; CN 200480040599 A 20041116; EP 04805460 A 20041116; FR 2004002923 W 20041116; JP 2006540509 A 20041116; US 57962404 A 20041116