

Title (en)

ELECTRONIC DEVICE COMPRISING A PRINTED CIRCUIT BOARD WITH IMPROVED COOLING

Title (de)

ELEKTRONISCHE VORRICHTUNG MIT EINER LEITERPLATTE MIT VERBESSERTER KÜHLUNG

Title (fr)

DISPOSITIF ÉLECTRONIQUE COMPRENANT UNE CARTE DE CIRCUIT IMPRIMÉ AVEC UN REFROIDISSEMENT AMÉLIORÉ

Publication

EP 3305039 A1 20180411 (FR)

Application

EP 16725060 A 20160512

Priority

- FR 1554836 A 20150528
- EP 2016060693 W 20160512

Abstract (en)

[origin: WO2016188762A1] The invention relates to an electronic device (10) comprising a printed circuit board (12) supporting at least one component including at least one power component (14) and/or at least one power conductor (18), said printed circuit board comprising an alternating series of insulating (22) and conductive (24) layers, and sinks (30, 30') provided with an electrically and thermally conductive inner coating (32) that extend through the thickness of the board, as well as comprising a device (34) for cooling the board. According to the invention, the interior of the sinks is also filled with a thermally conductive material (44) in order to provide a thermal bridge between the component and the cooling device (34).

IPC 8 full level

H05K 1/02 (2006.01)

CPC (source: EP US)

H05K 1/0206 (2013.01 - EP US); **H05K 1/0209** (2013.01 - EP US); **H05K 1/0298** (2013.01 - EP US); **H05K 2201/066** (2013.01 - EP US); **H05K 2201/09572** (2013.01 - EP US); **H05K 2201/0959** (2013.01 - EP US)

Citation (search report)

See references of WO 2016188762A1

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)

WO 2016188762 A1 20161201; CN 206506764 U 20170919; EP 3305039 A1 20180411; FR 3036917 A1 20161202; FR 3036917 B1 20181102; JP 2018516462 A 20180621; US 2018168025 A1 20180614

DOCDB simple family (application)

EP 2016060693 W 20160512; CN 201690000081 U 20160512; EP 16725060 A 20160512; FR 1554836 A 20150528; JP 2017561883 A 20160512; US 201615577694 A 20160530