

Title (en)
COOLING CONTROL CIRCUIT FOR PELTIER DEVICE

Title (de)
KÜHLKREISLAUF FÜR PELTIER-ELEMENT

Title (fr)
CIRCUIT DE COMMANDE DE REFROIDISSEMENT DESTINÉ À UN DISPOSITIF DE PELTIER

Publication
EP 2480946 A1 20120801 (EN)

Application
EP 10776192 A 20100922

Priority
• JP 2009221518 A 20090925
• JP 2010005742 W 20100922

Abstract (en)
[origin: WO2011036875A1] A cooling control circuit for a Peltier device comprises: a switching device 3; an LC filter 4, 13 connecting between the switching device 3 and the Peltier device 1, the LC filter 4, 13 smoothing an output from the switching device 3; an amplifier circuit 6 amplifying an output from the LC filter 4, 13; and a switching device control circuit IC configured to control an on-state and off-state of the switching device 3 based on a level of an output from the amplifier circuit 6. The amplifier circuit 6 delays and amplifies the output from the LC filter 4, 13 so that a maximum level of the output from the LC filter 4, 13 reaches a level at which the switching device control circuit IC brings a switching device 3 into the off-state.

IPC 8 full level
G05D 23/19 (2006.01)

CPC (source: EP US)
G05D 23/1951 (2013.01 - EP US)

Citation (search report)
See references of WO 2011036875A1

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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2011036875 A1 20110331; CN 102483633 A 20120530; EP 2480946 A1 20120801; JP 2011091391 A 20110506;
TW 201126297 A 20110801; US 2012151939 A1 20120621

DOCDB simple family (application)
JP 2010005742 W 20100922; CN 201080037459 A 20100922; EP 10776192 A 20100922; JP 2010216228 A 20100927;
TW 99132381 A 20100924; US 201013392922 A 20100922