

Title (en)

THERMAL CONTROL SYSTEMS AND METHODS USING THERMALLY GUARDED MULTIPLEXED SENSORS

Title (de)

THERMISCHE STEUERUNGSSYSTEME UND -VERFAHREN MIT THERMISCH GESCHÜTZTEN MULTIPLEX-SENSOREN

Title (fr)

SYSTÈMES DE COMMANDE THERMIQUE ET PROCÉDÉS UTILISANT DES CAPTEURS MULTIPLEXÉS THERMIQUEMENT PROTÉGÉS

Publication

EP 3068536 A4 20170726 (EN)

Application

EP 14862165 A 20141113

Priority

- US 201361903488 P 20131113
- US 2014065481 W 20141113

Abstract (en)

[origin: WO2015073689A1] Methods and systems for thermal control of a device are disclosed having (i) a heated zone including two or more resistive sensors and (ii) a common electrode connected to each of the two or more resistive sensors. The two or more resistive sensors may be driven with heater control signals having alternating polarities. One or more portions of a thermal boundary of the heated zone may be heated by one or more thermal guard heaters.

IPC 8 full level

B01L 7/00 (2006.01); **B01L 3/00** (2006.01); **G05D 23/19** (2006.01); **G05D 23/24** (2006.01)

CPC (source: EP)

B01L 3/5027 (2013.01); **B01L 7/52** (2013.01); **G05D 23/1934** (2013.01); **G05D 23/2401** (2013.01); **B01L 2200/147** (2013.01); **B01L 2200/148** (2013.01); **B01L 2300/0645** (2013.01); **B01L 2300/0663** (2013.01); **B01L 2300/0816** (2013.01); **B01L 2300/1827** (2013.01)

Citation (search report)

- [I] US 2004086927 A1 20040506 - ATWOOD JOHN GIRDNER [US], et al
- [I] EP 2332654 A1 20110615 - HOFFMANN LA ROCHE [CH], et al
- [I] US 2010086991 A1 20100408 - FISH DAVID ANDREW [GB]
- [I] WO 2007107892 A1 20070927 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- See references of WO 2015073689A1

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

DOCDB simple family (publication)

WO 2015073689 A1 20150521; EP 3068536 A1 20160921; EP 3068536 A4 20170726; JP 2017506060 A 20170302

DOCDB simple family (application)

US 2014065481 W 20141113; EP 14862165 A 20141113; JP 2016530923 A 20141113