

Title (en)

NON-INVASIVE BRAIN TEMPERATURE REGULATING DEVICES FOR ENHANCING SLEEP

Title (de)

NICHTINVASIVE GEHIRNTEMPERATURREGELUNGSVORRICHTUNGEN ZUR VERBESSERUNG DES SCHLAFES

Title (fr)

DISPOSITIFS NON INVASIFS DE RÉGULATION DE LA TEMPÉRATURE DU CERVEAU POUR AMÉLIORER LE SOMMEIL

Publication

EP 2919843 A4 20160803 (EN)

Application

EP 13854814 A 20131115

Priority

- US 201261727054 P 20121115
- US 201361859161 P 20130726
- US 2013070251 W 20131115

Abstract (en)

[origin: WO2014078630A1] Methods, systems and devices for enhancing sleep, including enhancing the quality of sleep, reducing sleep onset time, increasing total sleep time, treating insomnia, and/or treating other neurological disorders by non-invasive temperature regulation of the frontal cortex prior to and/or during sleep. Described herein are thermal applicators that include phase change materials and/or evaporative cooling, as well as headgear for securing the applicators comfortably against the appropriate region of the user's head.

IPC 8 full level

A61M 21/02 (2006.01); **A61F 7/00** (2006.01); **A61F 7/02** (2006.01); **A61F 9/04** (2006.01); **A61M 21/00** (2006.01)

CPC (source: EP)

A61F 7/02 (2013.01); **A61M 21/02** (2013.01); **A61F 2007/0007** (2013.01); **A61F 2007/0065** (2013.01); **A61F 2007/0292** (2013.01); **A61M 2021/0066** (2013.01); **A61M 2205/3646** (2013.01)

Citation (search report)

- [XY] WO 0139704 A1 20010607 - PROCTER & GAMBLE [US], et al
- [Y] US 2003109911 A1 20030612 - LACHENBRUCH CHARLES A [US], et al
- [Y] WO 9001911 A1 19900308 - ROYCE MEDICAL CO [US]
- See references of WO 2014078630A1

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 2014078630 A1 20140522; AU 2013344545 A1 20150507; CA 2890215 A1 20140522; EP 2919843 A1 20150923; EP 2919843 A4 20160803; JP 2016501074 A 20160118

DOCDB simple family (application)

US 2013070251 W 20131115; AU 2013344545 A 20131115; CA 2890215 A 20131115; EP 13854814 A 20131115; JP 2015542806 A 20131115