

Title (en)

APPARATUS FOR REGULATING FOOTWEAR TEMPERATURE

Title (de)

VORRICHTUNG ZUR REGELUNG DER SCHUHTEMPERATUR

Title (fr)

APPAREIL DE RÉGULATION DE LA TEMPÉRATURE D'UN ARTICLE CHAUSSANT

Publication

EP 2941139 A1 20151111 (EN)

Application

EP 14735095 A 20140103

Priority

- US 201361748527 P 20130103
- US 201361871607 P 20130829
- US 201414146181 A 20140102
- US 2014010198 W 20140103

Abstract (en)

[origin: US2014182164A1] An arrangement for regulating the interior temperature of footwear takes the form of an insole (or midsole) and includes a heat generator and a heat storage and release element, The heat generator may be configured to capture mechanical energy in the form of human locomotion and convert the captured energy into heat. Other types of heat generators may also be used. The heat storage and release element comprises one or more phase change materials that function to absorb generated heat (to keep footwear from overheating), as well as release the stored heat when the ambient temperature of the footwear drops below the transition temperature of the material.

IPC 8 full level

A43B 7/02 (2006.01); **A43B 13/14** (2006.01); **A43B 17/00** (2006.01)

CPC (source: EP US)

A43B 7/02 (2013.01 - EP US)

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)

US 2014182164 A1 20140703; EP 2941139 A1 20151111; EP 2941139 A4 20160831; WO 2014107588 A1 20140710;
WO 2014107588 A4 20140814

DOCDB simple family (application)

US 201414146181 A 20140102; EP 14735095 A 20140103; US 2014010198 W 20140103