

Title (en)
CUSHIONING DEVICE WITH VENTILATION

Title (de)
POLSTERVORRICHTUNG MIT LÜFTUNG

Title (fr)
DISPOSITIF D'AMORTISSEMENT DOTÉ D'UNE VENTILATION

Publication
EP 2804502 A4 20151111 (EN)

Application
EP 13738797 A 20130116

Priority
• US 201213351943 A 20120117
• US 2013021763 W 20130116

Abstract (en)
[origin: US2013180023A1] An insole for a shoe is characterized by a cushioning device that circulates air between a plastic bottom layer and a soft, porous upper layer. The air is directed to designated areas of the insole via vertical apertures, which circulate air to and over the foot of a user. The bottom layer is formed with air capturing structures that when collapsed expel air that is forced through the apertures and to the surface of the user's foot. The bottom layer and the upper layer are separated by a porous middle layer that may be foam or other light weight but breathable material.

IPC 8 full level
A43B 17/03 (2006.01); **A43B 7/32** (2006.01); **A43B 17/08** (2006.01); **A43B 17/14** (2006.01); **B29D 35/12** (2010.01)

CPC (source: EP US)
A43B 1/0045 (2013.01 - EP US); **A43B 17/006** (2013.01 - EP US); **A43B 17/02** (2013.01 - EP US); **A43B 17/023** (2013.01 - EP US);
A43B 17/08 (2013.01 - EP US); **A43B 17/14** (2013.01 - EP US); **B29D 35/142** (2013.01 - EP US)

Citation (search report)
• [X] US 2011041365 A1 20110224 - LUDEMANN JOHN F [US]
• [Y] US 4619055 A 19861028 - DAVIDSON MURRAY R [US]
• [Y] US 5799413 A 19980901 - ARGYRIS ART [US]
• [Y] US 6138383 A 20001031 - STEINKE RICHARD A [US], et al
• See references of WO 2013109643A1

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)
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WO 2013109643 A1 20130725

DOCDB simple family (application)
US 201213351943 A 20120117; CN 201210092449 A 20120331; EP 13738797 A 20130116; US 2013021763 W 20130116