

Title (en)

FOOTWEAR SOLES WITH AUXETIC STRUCTURES

Title (de)

SCHUHSOHLN MIT AUXETISCHEN STRUKTUREN

Title (fr)

SEMELLES D'ARTICLES CHAUSSANTS À STRUCTURES AUXÉTIQUES

Publication

EP 3267824 A2 20180117 (EN)

Application

EP 15820999 A 20151218

Priority

- US 201514643145 A 20150310
- US 2015066895 W 20151218

Abstract (en)

[origin: TW201632100A] An article of footwear has an auxetic sole structure formed from members surrounding apertures. The members may have a trapezoidal geometry. Adjoining members are hingedly connected, so that they can rotate with respect to each other in the plane of the sole structure. The rotation allows the auxetic sole structure to expand when tension is applied.

IPC 8 full level

A43B 13/14 (2006.01); **A43B 13/18** (2006.01)

CPC (source: CN EP)

A43B 13/14 (2013.01 - CN EP); **A43B 13/181** (2013.01 - CN EP); **A43B 13/187** (2013.01 - CN EP)

Citation (search report)

See references of WO 2016144407A2

Cited by

US11744322B2; US11926115B2

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)

WO 2016144407 A2 20160915; CN 107427106 A 20171201; CN 107427106 B 20200616; EP 3267824 A2 20180117; EP 3267824 B1 20210526; TW 201632100 A 20160916; TW 201828848 A 20180816; TW I669078 B 20190821; TW I678166 B 20191201

DOCDB simple family (application)

US 2015066895 W 20151218; CN 201580077278 A 20151218; EP 15820999 A 20151218; TW 105101770 A 20160120; TW 107116391 A 20160120