

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 B1 20210526 (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 (examination)

- WO 2016032626 A1 20160303 - NIKE INNOVATE CV [US], et al
- EP 2702884 A1 20140305 - UNDER ARMOUR INC [US]
- US 2011059291 A1 20110310 - BOYCE CHRISTOPHER M [US], et al
- WO 2014151045 A1 20140925 - HARVARD COLLEGE [US], et al

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

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