

Title (en)

A multicomponent sole support assembly for sports footwear

Title (de)

Mehrkomponenten-Sohlenstützanordnung für Sportschuhe

Title (fr)

Ensemble de maintien de semelle multicomposant pour chaussure de sport

Publication

EP 2454959 A1 20120523 (EN)

Application

EP 10191990 A 20101119

Priority

EP 10191990 A 20101119

Abstract (en)

A sole assembly for an article of sports footwear (11), particularly intended to running is provided. A preferable embodiment comprises an outsole (20) and a midsole (10), wherein the midsole comprises a support cradle element (3), a heel rocker element (2) and a carbon arch element (4). The midsole support cradle element (3) is preferably constructed from a first density ethylvinylacetate (EVA) foam, spreading practically over the total length and width of the foot. The heel rocker element (2) is preferably constructed from a second density EVA foam wherein the second density EVA foam is firmer than the first density EVA foam. The outsole of the sole assembly may include a rubber lateral wall element (5) and a toe lift (6). A midsole support structure is provided, wherein first density support cradle element (3) and the second density heel rocker element (2) are positioned in a way to form a continuous bridge from heel to forefoot region in order to provide an appropriate resilient support and take control over foot twist movements.

IPC 8 full level

A43B 5/06 (2006.01); **A43B 7/24** (2006.01); **A43B 13/02** (2006.01); **A43B 13/12** (2006.01); **A43B 13/16** (2006.01); **A43B 13/18** (2006.01); **A43B 23/22** (2006.01)

CPC (source: EP)

A43B 5/06 (2013.01); **A43B 7/24** (2013.01); **A43B 13/026** (2013.01); **A43B 13/125** (2013.01); **A43B 13/188** (2013.01); **A43B 23/22** (2013.01)

Citation (applicant)

- US 2009100710 A1 20090423 - POTTER DANIEL R [US], et al
- WO 2010104824 A1 20100916 - AETREX WORLDWIDE INC [US], et al
- US 4219945 A 19800902 - RUDY MARION F [US]
- US 2010077556 A1 20100401 - WHITE VINCENT F [US], et al
- US 2005178025 A1 20050818 - LITCHFIELD PAUL E [US], et al
- US 2010170110 A1 20100708 - SCHINDLER ERIC S [US], et al
- US 6061929 A 20000516 - RITTER BRETT D [US]
- WO 2010085485 A1 20100729 - NIKE INTERNATIONAL LTD [US], et al

Citation (search report)

- [X] US 2004154188 A1 20040812 - LASKA DANIEL S [US]
- [X] US 2003172548 A1 20030918 - FUERST RORY W [US]
- [X] US 2003192202 A1 20031016 - SCHOENBORN MARY L [US], et al
- [X] DE 10328390 A1 20050127 - MAMMUT SPORTS GROUP AG FRAUENF [CH]
- [X] US 2007107259 A1 20070517 - KILGORE BRUCE J [US], et al

Cited by

IT201700028991A1; CN103349397A; CN107927998A; CN113892727A; CN108542040A; USD933341S; US10681957B2; CN114980772A; WO2018167691A1; US11737515B2; USD874104S; USD928478S; USD929087S

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)

EP 2454959 A1 20120523

DOCDB simple family (application)

EP 10191990 A 20101119