

Title (en)
Method for generating an elastic membrane for supporting the whole of the plantar arch integrated in the shoe and the membrane resulting from this method

Title (de)
Verfahren zur Erzeugung einer im Schuh integrierten elastischen Membrane zur Unterstützung der ganzen Fußsohle und anhand dieses Verfahrens hergestellte Membrane

Title (fr)
Procédé de génération d'une membrane élastique pour soutenir l'ensemble de la voûte plantaire intégrée à la chaussure et membrane résultant de ce procédé

Publication
EP 2149313 A1 20100203 (EN)

Application
EP 08013585 A 20080729

Priority
EP 08013585 A 20080729

Abstract (en)
Method for generating an elastic membrane (1) for supporting the whole of the plantar arch (2) integrated into the shoe and the resulting membrane, which comprises the following stages: (a) scanning and identifying the defects that occur in feet by means of a three-dimensional plantar scan of a series of people with the same foot size; (b) design of the geometry of the membrane; (c) validation of the fixing system for the insole and the membrane to the sole of the shoe; (d) validation of the transpiration system; (e) validation of the system by means of actual trials of the combination of the sole with the membrane, independently of the shoe. The resulting membrane is constituted by a plastic and elastic flexible laminar material, missing the toe cap but with heel (3), and it can be provided with fixing elements.

IPC 8 full level
A43B 7/06 (2006.01); **A43B 7/14** (2006.01); **A43D 1/02** (2006.01)

CPC (source: EP)
A43B 7/06 (2013.01); **A43B 7/14** (2013.01); **A43B 7/141** (2013.01); **A43B 7/142** (2013.01); **A43D 1/02** (2013.01)

Citation (applicant)
• ES 271756 U 19831001
• ES 1058795 U 20050216 - AGNELLI S L U [ES]

Citation (search report)
• [XA] GB 1034609 A 19660629 - LEOPOLD SCHALPER
• [XAY] GB 1332146 A 19731003 - BALDUCCI G V
• [Y] GB 212336 A 19240313 - JOHN MASON
• [XA] US 4702255 A 19871027 - SCHENKL JOSEPH L [US]
• [XA] FR 1509112 A 19680112 - CHAUSSURES CLEAL
• [XA] US 2129321 A 19380906 - GUERIN NORBA W
• [XA] WO 03087717 A1 20031023 - CARE 4 FEET INTERNAT B V [NL], et al
• [XA] EP 0508963 A1 19921014 - PERSONAL SHOES SPA [IT]

Citation (examination)
EP 2111770 A1 20091028 - OTTE M CHRISTOPHE [LU]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2149313 A1 20100203

DOCDB simple family (application)
EP 08013585 A 20080729