



Europäisches
Patentamt
European
Patent Office
Office européen
des brevets



(11)

EP 2 353 423 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
02.01.2013 Bulletin 2013/01

(51) Int Cl.:
A43B 13/14 (2006.01) **A43B 13/20 (2006.01)**

(43) Date of publication A2:
10.08.2011 Bulletin 2011/32

(21) Application number: **10003354.7**

(22) Date of filing: **29.03.2010**

(84) Designated Contracting States:
**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 SE SI SK SM TR**

Designated Extension States:
AL BA ME RS

(30) Priority: **04.02.2010 ES 201000104 U**

(71) Applicant: **Pikolino's Intercontinental, S.A.
03203 Elche Alicante (ES)**

(72) Inventor: **Peran Ramos, Juan
03205 Elche
Alicante (ES)**

(74) Representative: **Fernández-Pacheco, Aurelio
Fernández et al
Lerroux & Fernández-Pacheco
C/Núñez de Balboa 54
28001-Madrid (ES)**

(54) Improved sole for footwear

(57) The invention relates to an improved sole for footwear with a convex or rounded shape, provided with a stabilizer, with a damping system and with an internal system for the rotation of air, which modifies the phase of contact of the foot with the ground in a roller, such that it transforms the process of reception of the ground (with the heel of the foot) and forward translation of the pro-

pelling forces (by means of the area of the metatarsus and toes) in a roller effect, obtaining the damping/stability/impulse effects, and the actuation of the airing system by means of a pad/wedge, the outsole thus configured allowing a rotation on the ground such that the inertia of the body and the vertical forces applied from the heel of the foot are more easily converted into horizontal propelling forces.

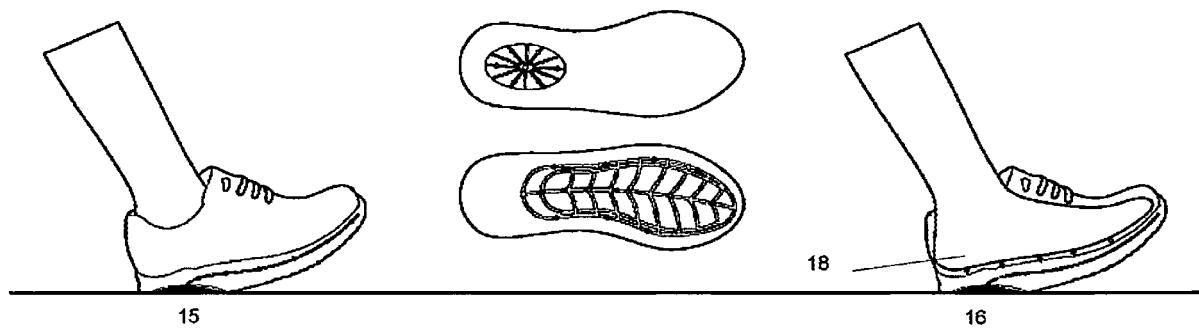


FIG. 9



EUROPEAN SEARCH REPORT

Application Number
EP 10 00 3354

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	KR 200 443 935 Y1 ((BAEH-I) BAE H) 18 March 2009 (2009-03-18) * paragraph [0022] - paragraph [0023] * * paragraph [0037] * * figures 2, 3, 5 * -----	1	INV. A43B13/14 A43B13/20
A	EP 1 869 989 A1 (RYU JEUNG HYUN [KR]) 26 December 2007 (2007-12-26) * paragraph [0013] - paragraph [0014] * * paragraph [0024] * * paragraph [0035] * * figures 1,2,3A,4,5A,6 * -----	1	
A	WO 2008/143465 A1 (RYNKOREA CO LTD [KR]; LEE HO-HYOUNG [KR]) 27 November 2008 (2008-11-27) * paragraph [0038] * * paragraph [0041] * * paragraph [0044] * * claim 1 * * figures 1-8 * -----	1	
A	WO 2006/065047 A1 (LEE HO-HYOUNG [KR]) 22 June 2006 (2006-06-22) * figures 1-12 * -----	1	A43B
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
1	Place of search The Hague	Date of completion of the search 21 November 2012	Examiner Gkionaki, Angeliki
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 10 00 3354

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-11-2012

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
KR 200443935	Y1	18-03-2009	NONE		
EP 1869989	A1	26-12-2007	EP 1869989 A1	26-12-2007	
			US 2007294915 A1	27-12-2007	
WO 2008143465	A1	27-11-2008	CA 2683891 A1	27-11-2008	
			KR 100800063 B1	01-02-2008	
			WO 2008143465 A1	27-11-2008	
WO 2006065047	A1	22-06-2006	EP 1824353 A1	29-08-2007	
			JP 2008523882 A	10-07-2008	
			US 2009056165 A1	05-03-2009	
			WO 2006065047 A1	22-06-2006	