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(71) Applicant: **Reebok International Ltd.**
Canton, MA 02021 (US)

(72) Inventors:
• **CALLAHAN, Erica**
Bedford, MA 01730 (US)

- **MONTROSS, Matthew**
Canton, MA 02021 (US)
- **HARDIGAN, Henry**
Canton, MA 02021 (US)
- **VESTUTI, Ricardo**
Canton, MA 02021 (US)
- **BOUDREAU, Matthew**
Canton, MA 02021 (US)
- **HOBSON, Daniel**
Canton, MA 02021 (US)
- **DALEY, SCOTT**
Canton, MA 02021 (US)
- **BISCHOFF, Bob**
Attleboro, MA 02703 (US)

(74) Representative: **Wegner, Hans**
Bardehle Pagenberg Partnerschaft mbB
Patentanwälte, Rechtsanwälte
Prinzregentenplatz 7
81675 München (DE)

(54) **ARTICLE OF FOOTWEAR HAVING AN UNDULATING SOLE**

(57) An article of footwear with an undulating sole provides cushioning and support to an article of footwear. The sole has an undulating shape that may be substantially similar to a sine wave with a series of alternating peaks and troughs.

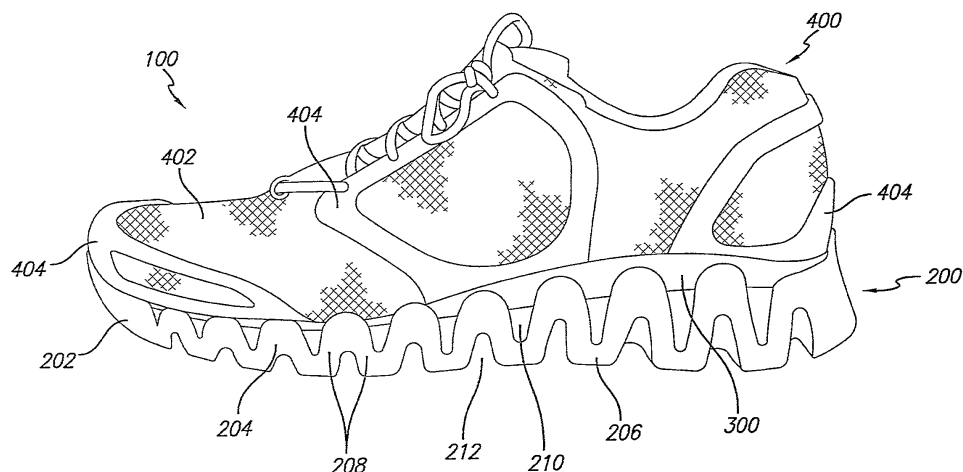


FIG. 1



EUROPEAN SEARCH REPORT

 Application Number
 EP 16 18 8094

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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X	US 2003/101621 A1 (NISHIWAKI TSUYOSHI [JP] ET AL) 5 June 2003 (2003-06-05) * paragraphs [0019], [0040], [0082], [0106] - [0109]; figures 10,11a,11b,14,16 *	1-8	
X	DE 28 16 619 A1 (ASICS CORP) 25 October 1979 (1979-10-25) * page 10, last paragraph - page 11, last paragraph; figures 1,2,5 *	1,2,5,6	
A	DE 11 45 961 B (KLAUS MAERTENS DR MED; FUNCK HERBERT) 21 March 1963 (1963-03-21) * column 3, line 9 - column 4, line 62; figures 2,3,6,8 *	1	
A	US 2 710 461 A (NATHAN HACK) 14 June 1955 (1955-06-14) * figure 2 *	1	TECHNICAL FIELDS SEARCHED (IPC) A43B
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 13 February 2017	Examiner Vesin, Stéphane
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			

EPO FORM 1503 03.82 (P04C01)



Application Number

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-8

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 16 18 8094

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-8

An article of footwear with a wavy midsole having gaps

2. claims: 9-15

An article of footwear having a plate and an upper

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

EP 16 18 8094

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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
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13-02-2017

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EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82