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(54) **STRETCHABLE WATERPROOF LINER**

(57) Waterproof articles of footwear having an improved fit and waterproof stretchable liners are provided. The footwear and liners of the present technology may include various stretchable components configured to tightly secure and conform to a user's foot and adapted to provide a tighter and more versatile fit around the differently sized and shaped feet of various different users.

In some aspects of the present technology, the waterproof liner may contain one or more stretchable panels and one or more non-stretchable or less stretchable panels. In other aspects, waterproof footwear may be provided with stretchable components such as straps or bands adapted to secure a user's foot.

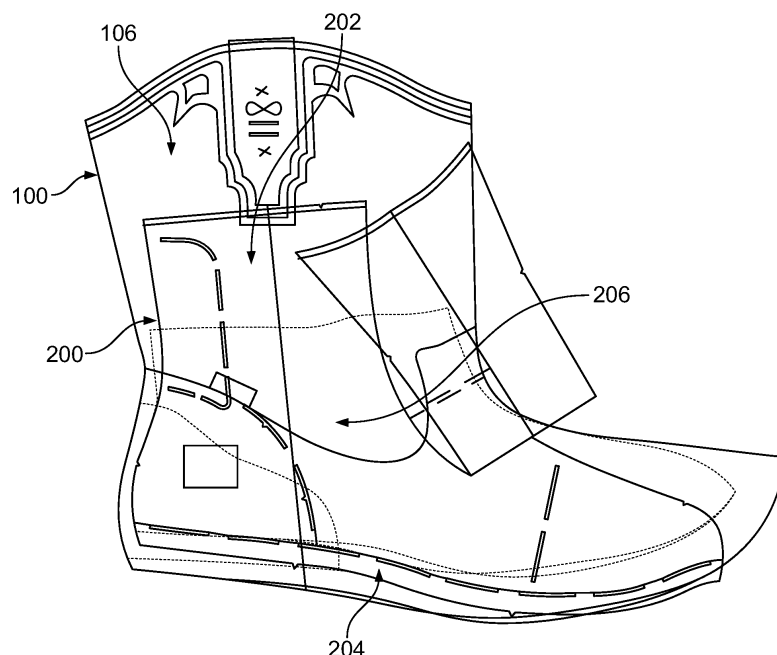


FIG. 2B



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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)
X	US 2006/112595 A1 (VATTES DAVID L [US] ET AL) 1 June 2006 (2006-06-01) * paragraphs [0043] - [0047], [0055]; claim 1; figures *	1-11	INV. A43B5/04 A43B17/10 A43B19/00 A43B5/16 A43B23/07 A43B23/02
X	US 2010/180474 A1 (CLARK DOUGLAS E [US] ET AL) 22 July 2010 (2010-07-22) * paragraphs [0062], [0080]; figure 18 *	1,2 3-11	
X	US 2014/130270 A1 (BAUDOUIN ALEXANDRE [US] ET AL) 15 May 2014 (2014-05-15) * paragraph [0042] - paragraph [0049]; figures 4A, 4B *	1,2 3-11	
X	US 2008/110048 A1 (DUA BHUPESH [US] ET AL) 15 May 2008 (2008-05-15) * paragraph [0040] - paragraph [0048]; figures 5-8 *	1,2 3-11	
X	US 2016/302513 A1 (BELL THOMAS G [US] ET AL) 20 October 2016 (2016-10-20) * paragraph [0122] - paragraph [0128]; figures 4, 8 *	1,2 3-11	TECHNICAL FIELDS SEARCHED (IPC) A43B
X	US 2014/360048 A1 (DEHAVEN DAN [US] ET AL) 11 December 2014 (2014-12-11) * paragraph [0052] - paragraph [0053]; figure 3A *	1,2 3-11	

The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 17 March 2022	Examiner Chirvase, Lucian
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	



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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:

1-11

☐ 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

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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: 1-11**a liner for an article of footwear;**
---**2. claims: 12-15****an article of footwear comprising an internal belt;**

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

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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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2006112595 A1	01-06-2006	EP 1816922 A2	15-08-2007
		US 2006112595 A1	01-06-2006
		WO 2006060057 A2	08-06-2006
<hr/>			
US 2010180474 A1	22-07-2010	NONE	
<hr/>			
US 2014130270 A1	15-05-2014	AR 093484 A1	10-06-2015
		AR 093485 A1	10-06-2015
		AR 093486 A1	10-06-2015
		AR 093487 A1	10-06-2015
		AR 093488 A1	10-06-2015
		BR 112014026945 A2	27-06-2017
		BR 112014027028 A2	27-06-2017
		BR 112014028914 A2	27-06-2017
		BR 112014032696 A2	27-06-2017
		BR 112015000760 A2	05-11-2019
		CN 104411196 A	11-03-2015
		CN 104427897 A	18-03-2015
		CN 104470390 A	25-03-2015
		CN 104684433 A	03-06-2015
		CN 105188441 A	23-12-2015
		EP 2919606 A2	23-09-2015
		EP 2919607 A2	23-09-2015
		EP 2919608 A2	23-09-2015
		EP 2919609 A2	23-09-2015
		EP 2919611 A2	23-09-2015
		EP 3437504 A1	06-02-2019
		HK 1205438 A1	18-12-2015
		HK 1205439 A1	18-12-2015
		HK 1205440 A1	18-12-2015
		HK 1209986 A1	15-04-2016
		HK 1214099 A1	22-07-2016
		JP 6157634 B2	05-07-2017
		JP 6403218 B2	10-10-2018
		JP 6411356 B2	24-10-2018
		JP 6529008 B2	12-06-2019
		JP 6739168 B2	12-08-2020
		JP 2015534876 A	07-12-2015
		JP 2015534877 A	07-12-2015
		JP 2015534878 A	07-12-2015
		JP 2016501067 A	18-01-2016
		JP 2016501573 A	21-01-2016
		KR 20140145204 A	22-12-2014
		KR 20150005610 A	14-01-2015
		KR 20150005617 A	14-01-2015
		KR 20150008142 A	21-01-2015

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

EP 21 20 4114

5

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.

17-03-2022

10

15

20

25

30

35

40

45

50

55

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		KR 20150010795 A	28-01-2015
		KR 20170076815 A	04-07-2017
		KR 20170078883 A	07-07-2017
		TW 201442652 A	16-11-2014
		TW 201444486 A	01-12-2014
		TW 201444487 A	01-12-2014
		TW 201444489 A	01-12-2014
		TW 201444490 A	01-12-2014
		US 2014130270 A1	15-05-2014
		US 2014130373 A1	15-05-2014
		US 2014130374 A1	15-05-2014
		US 2014130375 A1	15-05-2014
		US 2014130376 A1	15-05-2014
		US 2014245547 A1	04-09-2014
		US 2014245635 A1	04-09-2014
		US 2014245636 A1	04-09-2014
		US 2014245637 A1	04-09-2014
		US 2014245638 A1	04-09-2014
		US 2015013188 A1	15-01-2015
		US 2015040431 A1	12-02-2015
		WO 2014078152 A2	22-05-2014
		WO 2014078158 A2	22-05-2014
		WO 2014078159 A2	22-05-2014
		WO 2014078160 A2	22-05-2014
		WO 2014078161 A2	22-05-2014
<hr/>			
US 2008110048 A1	15-05-2008	CN 101583294 A	18-11-2009
		CN 102860632 A	09-01-2013
		CN 104544689 A	29-04-2015
		CN 104544738 A	29-04-2015
		DE 202007019490 U1	03-12-2012
		EP 2079336 A1	22-07-2009
		EP 2803283 A2	19-11-2014
		EP 3861882 A1	11-08-2021
		HK 1130161 A1	24-12-2009
		HK 1203327 A1	30-10-2015
		HK 1209291 A1	01-04-2016
		HK 1209292 A1	01-04-2016
		JP 5166431 B2	21-03-2013
		JP 5547797 B2	16-07-2014
		JP 5870147 B2	24-02-2016
		JP 2010508994 A	25-03-2010
		JP 2013066767 A	18-04-2013
		JP 2014131772 A	17-07-2014
		US 2008110048 A1	15-05-2008
		US 2010269372 A1	28-10-2010

EPO FORM P0459

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

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

EP 21 20 4114

5 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.

17-03-2022

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		US 2010281631 A1	11-11-2010
		US 2012285043 A1	15-11-2012
		US 2014150295 A1	05-06-2014
		WO 2008060928 A1	22-05-2008

US 2016302513 A1	20-10-2016	CN 103841851 A	04-06-2014
		CN 105286182 A	03-02-2016
		CN 106820412 A	13-06-2017
		EP 2739175 A1	11-06-2014
		US 2013104422 A1	02-05-2013
		US 2013104423 A1	02-05-2013
		US 2016302513 A1	20-10-2016
		WO 2013019934 A1	07-02-2013

US 2014360048 A1	11-12-2014	NONE	
