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(71) Applicant (for all designated States except US): **NIKE INNOVATE C.V.** [NL/US]; One Bowerman Drive, Beaverton, Oregon 97005 (US).

(71) Applicant (for US only): **NIKE, INC.** [US/US]; One Bowerman Drive, Beaverton, Oregon 97005 (US).

(72) Inventors: **GREENSPAN, Joël Ryp**; c/o NIKE, Inc., One Bowerman Drive, Beaverton, Oregon 97005 (US). **LAM, Peter**; c/o NIKE, Inc., One Bowerman Drive, Beaverton, Oregon 97005 (US). **MINAMI, Tetsuya T.**; c/o NIKE, Inc., One Bowerman Drive, Beaverton, Oregon 97005 (US). **ORAND, Austin J.**; c/o NIKE, Inc., One Bowerman Drive, Beaverton, Oregon 97005 (US). **BOYD, Patrick D.**; c/o NIKE Inc., One Bowerman Drive, Beaverton, 97005 (US).

(74) Agent: **SZALACH, Matthew H.**; Honigman LLP, 650 Trade Centre Way, Suite 200, Kalamazoo, Michigan 49002-0402 (US).

(54) Title: ZONAL DYNAMIC LACING SYSTEM

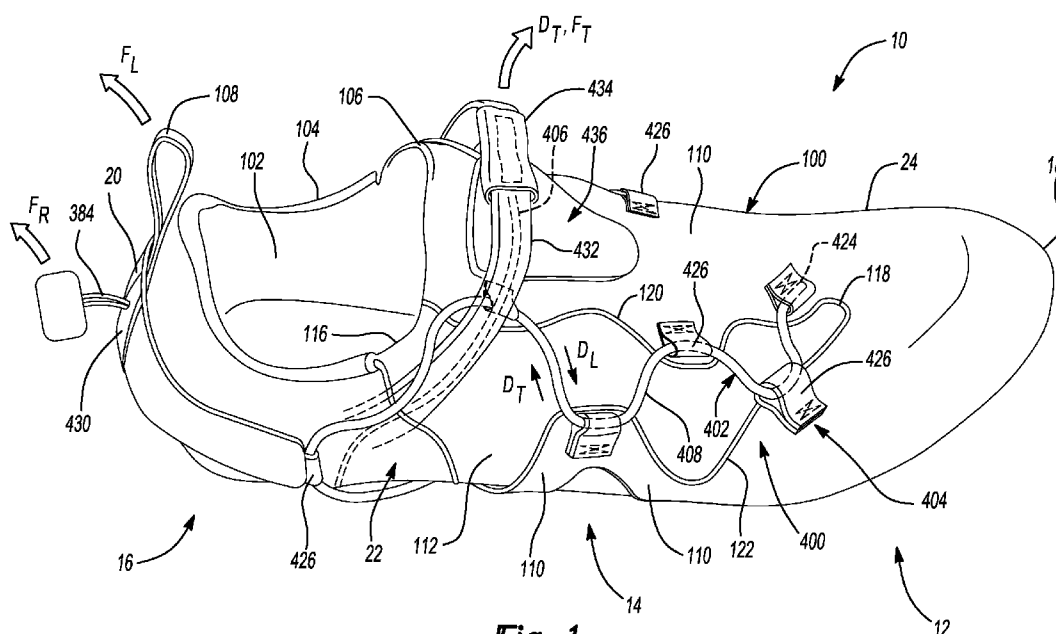


Fig-1

(57) **Abstract:** An article of footwear includes an upper defining an interior void and having a first region and a second region. The article of footwear also includes a sole structure attached to the upper. The article of footwear includes a cable including a first fastening segment extending across the first region to a first terminal end anchored on one of the upper and the sole structure, a second fastening segment extending across the second region to a second terminal end anchored on one of the upper and the sole structure. The article of footwear further includes a cable lock attached to one of the upper and the sole structure, the cable lock configured to receive the first fastening segment and the second fastening segment and operable to secure a position of each of the first fastening segment and the second fastening segment independently from one another.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2018/020767 A1 (DYER CALEB W [US] ET AL) 25 January 2018 (2018-01-25)	1-20,22
Y	paragraphs [0214], [0243], [0341], [0375]; figures 17-25,55,56,67-71	21
X	US 4 999 889 A (LECOUTURER JACQUES M [US]) 19 March 1991 (1991-03-19)	1,2, 5-13, 16-20,22
Y	col.4,1.36-45; col.7,1.46-59;	21
A	figures 10,10A	3,4,14, 15
X	US 2006/000116 A1 (BREWER REGLAN [FR]) 5 January 2006 (2006-01-05)	1,2, 5-13, 16-20,22
A	paragraphs [0046] - [0048]; figure 4	3,4,14, 15,21
	-/--	
☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
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Date of the actual completion of the international search 29 April 2020		Date of mailing of the international search report 12/05/2020
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Chirvase, Lucian

INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 566 474 A (LEICK PATRICK [FR] ET AL) 22 October 1996 (1996-10-22)	1,2, 5-13, 16-20,22
A	claim 1; figure 4	3,4,14, 15,21
A	----- EP 2 937 007 A1 (MIGHTY STYLEY SL [ES]) 28 October 2015 (2015-10-28) the whole document -----	1-22

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2019/059758

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2018020767	A1	25-01-2018	CN 107637913 A 30-01-2018
			CN 108685271 A 23-10-2018
			CN 108720179 A 02-11-2018
			CN 108741424 A 06-11-2018
			CN 108741425 A 06-11-2018
			CN 108741426 A 06-11-2018
			CN 108741427 A 06-11-2018
			CN 108835769 A 20-11-2018
			CN 207707397 U 10-08-2018
			CN 208941129 U 07-06-2019
			DE 202017007072 U1 27-05-2019
			DE 202017007087 U1 18-06-2019
			DE 202017007089 U1 18-06-2019
			DE 202017007090 U1 18-06-2019
			EP 3471572 A1 24-04-2019
			EP 3498122 A1 19-06-2019
			EP 3498123 A1 19-06-2019
			EP 3501317 A1 26-06-2019
			EP 3501318 A1 26-06-2019
			EP 3504996 A1 03-07-2019
			EP 3504997 A1 03-07-2019
			EP 3508088 A1 10-07-2019
			HK 1244392 A2 03-08-2018
			HK 1248968 A2 19-10-2018
			HK 1248969 A2 19-10-2018
			HK 1248970 A2 19-10-2018
			HK 1248971 A2 19-10-2018
			HK 1248972 A2 19-10-2018
			HK 1248973 A2 19-10-2018
			HK 1248974 A2 19-10-2018
			HK 1249341 A2 26-10-2018
			JP 3222268 U 25-07-2019
			JP 3222409 U 01-08-2019
			JP 3222495 U 08-08-2019
			JP 3224283 U 12-12-2019
			KR 20190029704 A 20-03-2019
			US 2018020767 A1 25-01-2018
			US 2018192733 A1 12-07-2018
			US 2018220734 A1 09-08-2018
			US 2018228243 A1 16-08-2018
			US 2018228244 A1 16-08-2018
			US 2019343217 A1 14-11-2019
			US 2019343218 A1 14-11-2019
			US 2020029649 A1 30-01-2020
			US 2020029650 A1 30-01-2020
			WO 2018017907 A1 25-01-2018
US 4999889	A	19-03-1991	NONE
US 2006000116	A1	05-01-2006	EP 1611810 A1 04-01-2006
			FR 2872389 A1 06-01-2006
			US 2006000116 A1 05-01-2006
US 5566474	A	22-10-1996	AT 180395 T 15-06-1999
			DE 69418650 D1 01-07-1999
			DE 69418650 T2 02-12-1999
			EP 0631737 A1 04-01-1995
			FI 942986 A 22-12-1994

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2019/059758

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		FR 2706744 A1	30-12-1994
		JP H0751103 A	28-02-1995
		US 5566474 A	22-10-1996

EP 2937007	A1	28-10-2015	NONE
