



(51) International Patent Classification:
A43B 23/24 (2006.01) *A44C 27/00* (2006.01)
A44C 25/00 (2006.01)

[US/US]; 7823 Camino Huerta, San Diego, California 92122 (US).

(21) International Application Number:
PCT/US2010/045380

(74) Agents: **WILSON SONSINI GOODRICH & ROSATI**
et al.; 650 Page Mill Road, Palo Alto, California 94304 (US).

(22) International Filing Date:
12 August 2010 (12.08.2010)

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/233,776 13 August 2009 (13.08.2009) US

(71) Applicant (*for all designated States except US*): **CODE FOOTWEAR, LLC** [US/US]; 11 N Vista de Catalina, Laguna Beach, California 92651 (US).

(72) Inventors; and

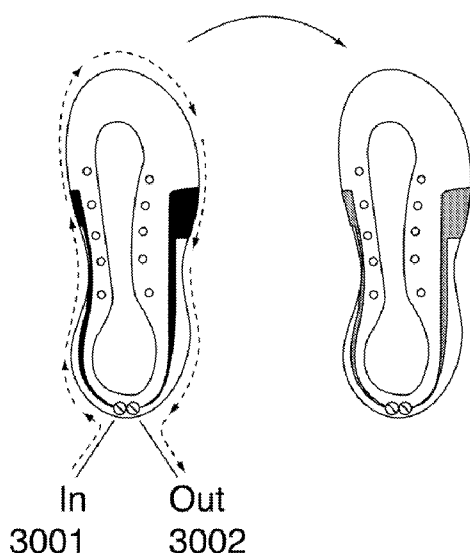
(75) Inventors/Applicants (*for US only*): **SULLIVAN, Benjamin David** [US/US]; 5220 Fiore Terrace, #M406, San Diego, California 92122 (US). **TRUITT, Nicole Justis**

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,

[Continued on next page]

(54) Title: RECONFIGURABLE SHOES AND APPAREL AND DOCKING ASSEMBLY THEREFOR

FIGURE 3



(57) Abstract: Provided herein are methods for the modulation of appearance or material properties within items of apparel or equipment. Also provided herein are design articles having alterable designs. Generally, such design articles comprise (1) a microfluidic circuit, and (2) an inlet and an outlet, the alterable design capable of being modulated through use of a docking system to deliver fluid to the microfluidic circuit.



LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

12 May 2011

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/045380**A. CLASSIFICATION OF SUBJECT MATTER*****A43B 23/24(2006.01)i, A44C 25/00(2006.01)i, A44C 27/00(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A43B 23/24; A43B 7/06; A43B 7/14; A41D 1/00; A41D 13/00; A43B 7/04; D06B 3/30; A43B 13/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: microfluid*, inlet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2005-534452 A (PHOENIX CONSULTANTS LTD.) 17 November 2005 See abstract, figures 1-9, paragraphs 0002-0037, and claim 1	1-70
A	WO 89-09552 A1 (LAKIC, N.) 19 October 1989 See abstract, figures 1-20, pages 6-17, and claim 1	1-70
A	US 5784807 A1 (PAGEL, T. A.) 28 July 1998 See abstract, figures 1-6, columns 4-6, and claim 1	1-70
A	US 2008-0141433 A1 (RHODES-VIVOUR, T. S.) 19 June 2008 See abstract, figures 1-13, pages 2-3, and claim 1	1-70

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

10 MARCH 2011 (10.03.2011)

Date of mailing of the international search report

17 MARCH 2011 (17.03.2011)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM Dae Young

Telephone No. 82-42-481-8403



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/045380

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2005-534452 A	17. 11. 2005	AU 2003-261409 A1 CA 2492958 A1 CN 100427850 C0 CN 1675506 A EP 1543275 A2 WO 2004-014169 A2	25. 02. 2004 19. 02. 2004 22. 10. 2008 28. 09. 2005 22. 06. 2005 19. 02. 2004
WO 89-09552 A1	19. 10. 1989	AT 139886 T CA 1341244 C DE 3855396 D1 EP 0441779 A4 EP 0463095 A1 EP 0463095 B1 EP 0545940 A1 EP 0565617 A1 EP 0918935 A1 JP 03-032286 B2 KR 10-0144563 B1 KR 10-1993-0700023 A KR 10-1993-0702910 A US 04782602A A US 04823482A A US 04845338A A US 04941271A A US 04991317A A US 05025575A A US 05846063A A US 06014823A A WO 89-09552A1 WO 90-10396 A1 WO 91-19430 A1 WO 92-11780 A1 WO 94-00032 A1 WO 98-23863 A1	15. 07. 1996 05. 06. 2001 08. 08. 1996 30. 10. 1991 02. 01. 1992 09. 12. 1998 30. 06. 1999 02. 01. 1997 16. 01. 2002 10. 02. 2000 15. 07. 1998 13. 03. 1993 29. 11. 1993 08. 11. 1988 25. 04. 1989 04. 07. 1989 17. 07. 1990 12. 02. 1991 25. 06. 1991 08. 12. 1998 18. 01. 2000 19. 10. 1989 20. 09. 1990 26. 12. 1991 23. 07. 1992 06. 01. 1994 04. 06. 1998
US 5784807 A1	28. 07. 1998	None	
US 2008-0141433 A1	19. 06. 2008	US 2005-0252044 A1 US 7497036 B2 WO 2009-108697 A1	17. 11. 2005 03. 03. 2009 03. 09. 2009