(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 21 December 2007 (21.12.2007)

(10) International Publication Number WO 2007/146149 A3

(51) International Patent Classification: *A61F 13/15* (2006.01)

(21) International Application Number:

PCT/US2007/013545

- (22) International Filing Date: 7 June 2007 (07.06.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

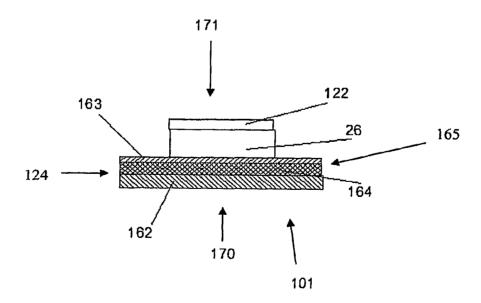
60/811,580 7 June 2006 (07.06.2006) US

- (71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, Ohio 45202 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AUTRAN, Jean-Philippe, Marie [FR/US]; 217 Hillcrest Drive, Wyoming, Ohio 45215 (US). ROE, Donald, Carroll [US/US]; 6324 Emberwood Court, West Chester Township, Ohio 45069 (US). YOUNG, Terrill, Alan [US/US]; 3925 Brockton Drive, Cincinnati, Ohio 45251 (US). MOONEY, Joan, Helen [US/US]; 2432 Carol Drive, Reading, Ohio 45215 (US). DESAI, Fred, Naval [US/US]; 6383 Jamesfield Court, Fairfield, Ohio

- 45014 (US). **EHRNSPERGER, Bruno, Johannes** [US/US]; 3343 Cooper Road, Evendale, Ohio 45241 (US). **SAURER, Andrew James** [US/US]; 8705 Constitution Drive, Cincinnati, OH 45215 (US).
- (74) Common Representative: THE PROCTER & GAMBLE COMPANY; c/o Eileen L. Hughett, The Procter & Gamble Company, Winton Hill Business Center, 6250 Center Hill Road, Cincinnati, Ohio 45224 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,

[Continued on next page]

(54) Title: STRETCHABLE OUTER COVER FOR AN ABSORBENT ARTICLE AND PROCESS FOR MAKING THE SAME



(57) Abstract: A stretchable outer cover for use with an absorbent article including an elastomeric film. The elastomeric film includes at least one skin layer that is less tacky than at least one core layer. The outer cover can include a nonwoven layer different structural combinations of spunbond fibers, meltblown fibers, and/or nanofibers. The combination of plastic and elastic components results in an outer cover that has favorable mechanical, physical, and aesthetic properties. The outer cover can be rendered either uniaxially or biaxially stretchable via a mechanical activation process.



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- (88) Date of publication of the international search report: 28 February 2008

INTERNATIONAL SEARCH REPORT

International application No PCT/US2007/013545

A. CLASSIFICATION OF SUBJECT MATTER INV. A61F13/15									
	o International Patent Classification (IPC) or to both national classific	cation and IPC							
	SEARCHED	tion overholds)							
A61F	ocumentation searched (classification system followed by classificat	ion symbols)							
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields se	arched						
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)									
EPO-In	ternal, WPI Data								
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category*	Citation of document, with indication, where appropriate, of the re	Relevant to claim No.							
X	WO 2005/102682 A (FIRST QUALITY INC [US]) 3 November 2005 (2005-paragraph [0069]; claim 58; figu	1,5,7,8, 10							
A	WO 98/15399 A (TREDEGAR IND INC 16 April 1998 (1998-04-16) page 21, line 7 - line 11; figur	1-10							
A	US 2002/019616 A1 (THOMAS OOMMAN PAINUMOOTTIL [US]) 14 February 2002 (2002-02-14) claims 1,13; figure 1	-	1-10						
<u> </u>	her documents are listed in the continuation of Box C.	See patent family annex.							
A document defining the general state of the art which is not considered to be of particular relevance		*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							
filing o		"X" document of particular relevance; the cannot be considered novel or cannot	be considered to						
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *Y* document of particular relevance; the claimed invention cannot be considered to invention and the considered to i									
"O" docum	ent referring to an oral disclosure, use, exhibition or means	cannot be considered to involve an involve an involve an involve document is combined with one or mo ments, such combination being obvious	re other such docu-						
	ent published prior to the international filing date but han the priority date claimed	in the art. *&* document member of the same patent to	•						
Date of the actual completion of the international search Date of mailing of the international search report									
2	20 November 2007	06/12/2007							
Name and r	mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer							
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Westermayer, Wilhelm							

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2007/013545

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 2005102682	Α	03-11-2005	CA CN EP	2563319 A1 1997786 A 1740749 A2	03-11-2005 11-07-2007 10-01-2007
WO 9815399	Α	16-04-1998	AU AU	744099 B2 7404198 A	14-02-2002 16-09-1999
			BR CA CN	9712287 A 2268431 A1 1248937 A	31-08-1999 16-04-1998 29-03-2000
			CN DE DE	1605452 A 69722947 D1 69722947 T2	13-04-2005 24-07-2003 19-05-2004
·			EA EP ES	2839 B1 0930962 A1 2201273 T3	31-10-2002 28-07-1999 16-03-2004
			JP KR PL	2001501883 T 20050061611 A 333111 A1	13-02-2001 22-06-2005 08-11-1999
 US 2002019616	A1	 14-02-2002	TR US	9900793 T2 	21-11-2001