(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 19 December 2002 (19.12.2002)

PCT

English

(10) International Publication Number WO 02/100306 A3

(51) International Patent Classification⁷: A61F 5/443

(30) Priority Data: 01114143.9

11 June 2001 (11.06.2001) E

(21) International Application Number: PCT/US02/17984

(22) International Filing Date: 7 June 2002 (07.06.2002)

(71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).

(25) Filing Language: English

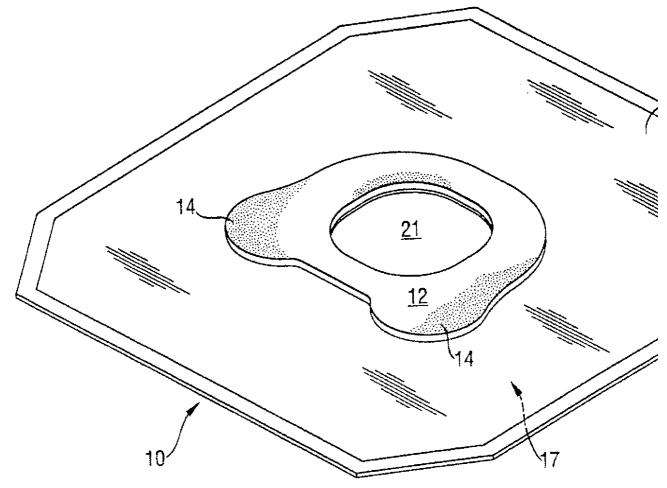
(72) Inventors; and

(26) Publication Language:

(75) Inventors/Applicants (for US only): BURNS, Jay, G. [US/JP]; 1702, 5-15 Koyocho-naka, Higashinada-ku, Kobe

[Continued on next page]

(54) Title: HUMAN WASTE COLLECTION BAG COMPRISING STRESS RELIEF MEANS



(57) Abstract: The present invention relates to human waste collection bags for babies, children or adults to be attached to a wearer. More particularly it relates to a human waste collection bag comprising a pouch (11) and an aperture (21) the aperture (21) being surrounded by a flange (12), the pouch (11) being at least partially joined to the flange (12), and the human waste collection bag comprising a stress relief means (50) to relief stress exerted by portions of the pouch (11) onto portions of the flange (12).

WO 02/100306 A3



- 658-0032 (JP). **HASEGAWA, Maya** [JP/JP]; 5-9-404, Miyagawa-cho, Ashiya (JP).
- (74) Common Representative: REED, David, T.; The Procter & Gamble Company, 6110 Center Hill Road, Cincinnati, OH 45224 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (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: 4 December 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

PCT/US 02/17984

		_
A. CLASSIFIC	AATION OF SUBJECT MATTER A61F5/443	

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

B. FIELDS SEARCHED

 $\begin{tabular}{ll} \begin{tabular}{ll} Minimum documentation searched (classification system followed by classification symbols) \\ IPC 7 & A61F \end{tabular}$

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

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

EPO-Internal

C. DOCUM	C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Χ	US 5 912 059 A (JONES CHERYL D ET AL) 15 June 1999 (1999-06-15) column 11, line 31 - line 58; figure 7	. 1,2			
A	WO 00 30576 A (COLOPLAST AS ;HANSEN MICHAEL (DK); LEISNER HENRIK (DK)) 2 June 2000 (2000-06-02) page 7, paragraph 2	1,6			
A	GB 785 562 A (ELISE SORENSEN) 30 October 1957 (1957-10-30) page 2, line 29 - line 47	1			
A	GB 2 152 387 A (HOLLISTER INC) 7 August 1985 (1985-08-07) cited in the application claim 1	1			

X Further documents are listed in the continuation of box C.	Patent family members are listed in 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 document 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 another 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 filling 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	Date of mailing of the international search report
25 February 2003	05/03/2003
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Korth, C-F

INTERNATIONAL SEARCH REPORT

Internation Application No
PCT/US 02/17984

	PCT/US 02/17984
ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
US 4 784 656 A (CHRISTIAN DELORES J) 15 November 1988 (1988-11-15) cited in the application abstract	1
US 3 577 989 A (ANDERSON JEAN 0) 11 May 1971 (1971-05-11) cited in the application abstract	1
SE 444 762 B (SUND STEN) 12 May 1986 (1986-05-12) cited in the application the whole document	
	US 4 784 656 A (CHRISTIAN DELORES J) 15 November 1988 (1988-11-15) cited in the application abstract US 3 577 989 A (ANDERSON JEAN O) 11 May 1971 (1971-05-11) cited in the application abstract SE 444 762 B (SUND STEN) 12 May 1986 (1986-05-12) cited in the application

INTERNATIONAL SEARCH REPORT

innumation on patent family members

Application No PCT/US 02/17984

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5912059	A	15-06-1999	AU	727924 B2	04-01-2001
			AU	1566297 A	06-03-1998
			CA	2261932 A1	26-02-1998
			EP	0918499 Al	02-06-1999
			JP	2000516510 T	12-12-2000
			WO	9807396 A1	26-02-1998
WO 0030576	Α	02-06-2000	DK	152098 A	13-07-2000
			ΑU	1151400 A	13-06-2000
			CN	1326333 T	12-12-2001
			WO	0030576 A1	02-06-2000
			EP	1131023 A1	12-09-2001
			HU	0104142 A2	28-03-2002
			JP	2002530149 T	17-09-2002
			PL	348374 A1	20-05-2002
			ГL 	3463/4 AI 	20-05-2002
GB 785562	Α	30-10-1957 	NONE		
GB 2152387	Α	07-08-1985	US	4445898 A	01-05-1984
			AU	559535 B2	12-03-1987
			ΑU	1199883 A	22-09-1983
			CA	1190823 A1	23-07-1985
			CA	1197747 A2	10-12-1985
			DE	3309083 A1	22-09-1983
			DK	102883 A ,	
			ES	279833 U	16-11-1984
			FR	2523435 A1	23-09-1983
			GB	2116849 A ,	
			HK	52087 A	10-07-1987
			HK	83087 A	13-11-1987
			IE	53994 B1	10-05-1989
•					
			JP	1500596 C	28-06-1989
			JP	58165843 A	30-09-1983
			JP	63052900 B	20-10-1988
			SE	454238 B	18-04-1988
			SE	8301349 A	17-09-1983
US 4784656	Α	15-11-1988	NONE		
	Α	11-05-1971	NONE		
US 3577989	• •				