

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number  
**WO 2005/030084 A3**

(51) International Patent Classification<sup>7</sup>: **A61F 13/15**,  
13/20

(21) International Application Number:  
PCT/US2004/031207

(22) International Filing Date:  
23 September 2004 (23.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10/668,599 24 September 2003 (24.09.2003) US

(71) Applicant (for all designated States except US): **TYCO  
HEALTHCARE RETAIL SERVICES AG** [CH/CH];  
Postfach 1571, Bahnhofstrasse 29, CH-8201 Schaffhausen  
(CH).

(72) Inventors; and

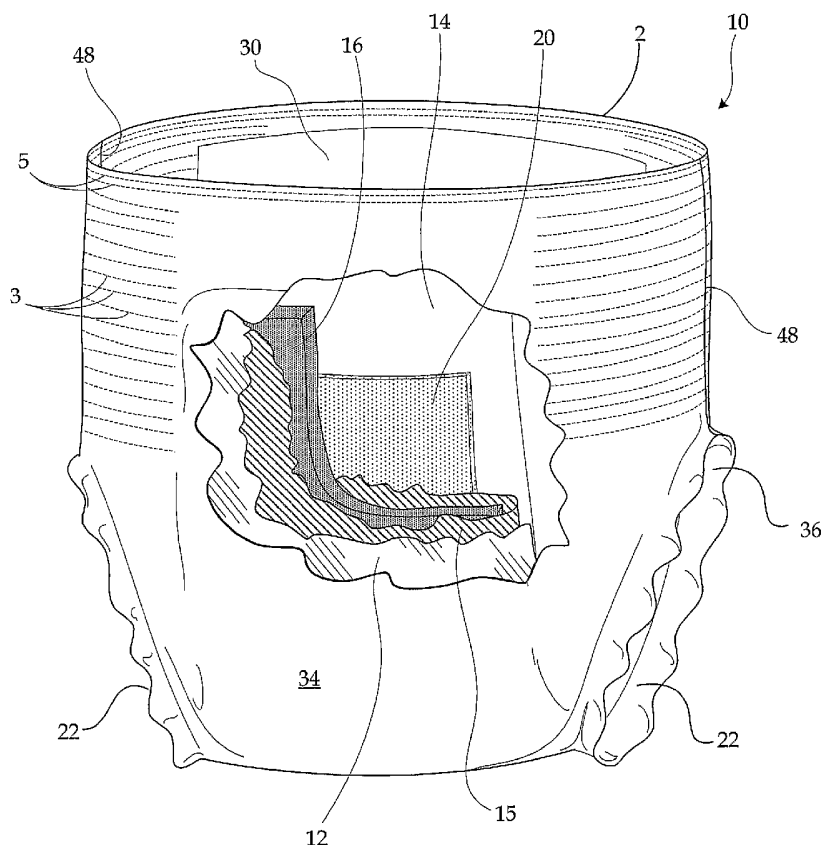
(75) Inventors/Applicants (for US only): **DRISKELL, Stacy, J.** [US/US]; 614 Brooke Drive, Royersford, PA 19468 (US). **ERDMAN, Edward, P.** [US/US]; 1433 Grand Oak Lane, West Chester, PA 19380 (US). **LEVY, Ruth, L.** [US/US]; 46 Basswood Court, Collegeville, PA 19426 (US).

(74) Agents: **CAMPBELL, Christopher, C.** et al.; Hunton & Williams LLP, 1900 K Street, N.W., Washington, DC 20006 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: DISPOSABLE ARTICLES WITH WETNESS INDICATOR



(57) Abstract: Absorbent articles that have wetness indicator graphics positioned thereon are disclosed, whereby the articles preferably include diapers, training pants, and adult incontinence products. The article includes a character graphic positioned in a waist region of the article, and a wetness indicator graphic that may be positioned in a crotch region. The character graphic is related to the wetness indicator graphic. The arrangement of the respective graphics preferably allow a caregiver to interact with a child to promote toilet training.



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, IT, LU, MC, NL, PL, 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*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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

1 December 2005

*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

International application No.

PCT/US04/31207

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 13/15, 13/20

US CL : 604/361, 385.100

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)

U.S. : 604/361, 385.100

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 practicable, search terms used)  
east

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,197,958 A (HOWELL) 30 March 1993, see entire document.	1- 3,12,14,15,23,25,26,31 ,32,36,38,39,50,52- 55,64,66 ----- 4-11,13,16- 22,24,27,33-35,37,45- 49,56-63
X --- Y	US 6,307,119 B1 (CAMMAROTA ET AL.) 23 October 2001, see entire document.	39-44, 50-58, 64-66 ----- 4-11,13,16- 22,24,27,33-35,37,45- 49,56-63
A, P	US 2004/0064113 A1 (ERDMAN) 01 April 2004, see entire document.	

☐ 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	"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
"E" earlier application or patent published on or after the international filing date	"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
"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 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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

17 August 2005 (17.08.2005)

Date of mailing of the international search report

28 SEP 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

dmda sholl

Telephone No. (571) 272-4391