



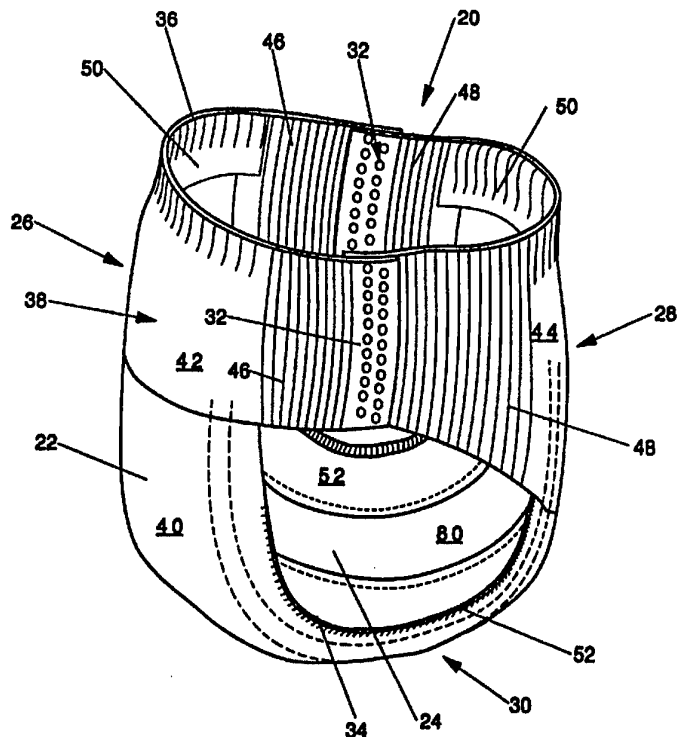
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>6</sup> : <b>A61F 13/15</b></p>	<p><b>A3</b></p>	<p>(11) International Publication Number: <b>WO 96/31179</b> (43) International Publication Date: 10 October 1996 (10.10.96)</p>
<p>(21) International Application Number: PCT/US96/04527 (22) International Filing Date: 3 April 1996 (03.04.96) (30) Priority Data: 08/415,816 3 April 1995 (03.04.95) US (71) Applicant (for all designated States except US): THE PROCTER &amp; GAMBLE COMPANY [US/US]; One Procter &amp; Gamble Plaza, Cincinnati, OH 45202 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): ASHTON, Gregory [CA/CA]; 58 Burwell Crescent, Markham, Ontario L3P 6T8 (CA). (74) Agents: REED, T., David et al.; The Procter &amp; Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>  (88) Date of publication of the international search report: 7 November 1996 (07.11.96)</p>

(54) Title: DISPOSABLE PULL-ON PANT

(57) Abstract

Pull-on garments provided with breathability in the side panels (64), the back waistband panel (60), and preferably the leg flap panels (58). The moisture vapor transmission rate of the side panels in conjunction with the overall vapor transmission rate of the rest of the absorbent article assists to reduce the incidence of heat rash and other skin problems associated with high heat and humidity conditions. Further, the use of waistbands and leg bands having lower forces to reduce pressure on the skin while relying more upon the forces of the side panels to maintain the product on the wearer further reduce these problems.



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INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 96/04527

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6 A61F13/15

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)  
IPC 6 A61F

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP,A,0 422 504 (KIMBERLY-CLARK) 17 April 1991	1-5, 7-10, 13-15
Y	see page 22, line 41 - line 44 see page 19, line 21 - line 23; claims 1,2,7,16; figures 1-3,7-11	16,18
Y	--- US,A,5 171 239 (IGAUE ET AL.) 15 December 1992 cited in the application see abstract; figure 1	16,18
X	--- EP,A,0 433 951 (KIMBERLY-CLARK) 26 June 1991 see column 9, line 37 - line 46 -----	1

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Patent family members are listed in annex.

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Date of the actual completion of the international search

19 September 1996

Date of mailing of the international search report

01.10.96

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 96/04527

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP-A-422504	17-04-91	AT-T- 123405	15-06-95
		AU-B- 635970	08-04-93
		AU-A- 6373890	11-04-91
		CA-A- 2026326	05-04-91
		DE-D- 69019912	13-07-95
		DE-T- 69019912	28-03-96
		ES-T- 2072954	01-08-95
		JP-A- 3178653	02-08-91
-----			
US-A-5171239	15-12-92	JP-A- 3162854	12-07-91
		AU-B- 641413	23-09-93
		AU-A- 5985890	14-02-91
		DE-D- 59006006	14-07-94
		EP-A- 0412549	13-02-91
		GB-A,B 2235125	27-02-91
		KR-Y- 9601477	17-02-96
-----			
EP-A-433951	26-06-91	AT-T- 141777	15-09-96
		AU-B- 648211	14-04-94
		AU-A- 3033792	11-02-93
		AU-B- 637661	03-06-93
		AU-A- 6822290	27-06-91
		CA-A- 2031435	20-06-91
		JP-A- 4102452	03-04-92
		US-A- 5527302	18-06-96
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