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(54) Title: IMPROVED ANTI-IRRITANT DISPOSABLE DIAPER

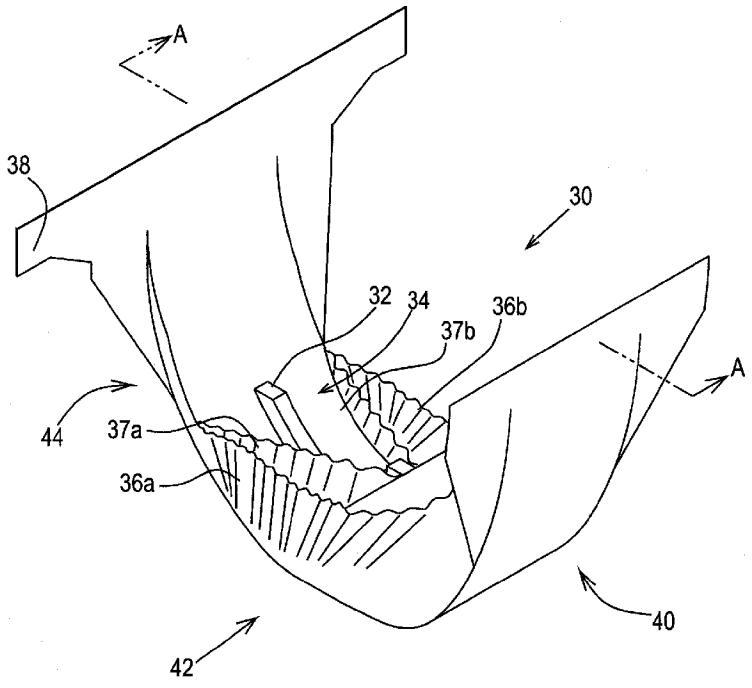


FIG. 1

(57) Abstract: An improved anti-irritant disposable diaper, comprising a semi- rigid element defining and maintaining a gap extending along a user contour and a waste containment means integrally formed within a crotch area and disposed below the gap for receiving excreted waste, thus substantially preventing contact of the skin of the user with waste, so as not to cause rashes.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - A61F 13/20 (2013.01)
USPC - 604/358
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)
USPC: 604/358

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 604/385.*, 369 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase; Google Patents; Google; Search Terms Used separator, support, space, shim%, divid*, absorben*, incontinen*, disposable, training, diaper%, article, short%, undergarment, underwear, garment, cover, flap, cuff, gap, space, void, pullstring, drawstring, rope, string, rigid, hard, foam, sponge, partition, interior, inner, crotch, inflat*, air,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,464,673 B1 (BEN NATAN) 15 October 2002 (15.10.2002) fig 1a, 1c, 3a, 4, 5, 6a, 7, 9, col 3, ln 56-57, col 4, ln 9-11, col 4, ln 30-32, col 4, ln 35-42, col 4, ln 60-col 5, ln 13, col 5, ln 15-25	1-6, 8-9, 11, 20, 26, 28
Y		7, 12-15, 17-19, 22-25
A		10, 16, 21
X	US 2005/0273071 A1 (MCKIERNAN et al) 08 December 2005 (08.12.2005) fig 3A, 4A, para [0088], [0099], [0102]-[0103]	27
Y		17-19
A		10
Y	US 5,306,266 A (FREELAND) 26 April 1994 (26.04.1994) fig 4, col 4, ln 34-37	7
Y	US 2008/0195073 A1 (PONOMARENKO et al) 14 August 2008 (14.08.2008) fig 1, para [0042]-[0045], [0058]	12-13, 24
A		16
Y	US 6,432,097 B1 (AHR et al) 13 August 2002 (13.08.2002) fig 8, 10, col 13, ln 55-61	14, 25
Y	US 2008/0011632 A1 (ALBINO) 17 January 2008 (17.01.2008) abstract, claim 25	15
Y	US 5,795,347 A (ROE et al) 18 August 1998 (18.08.1998) fig 3, col 6, ln 31-41	22
Y	US 2009/0270828 A1 (SUZUKI) 29 October 2009 (29.10.2009) fig 24, para [0266]	23

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Date of the actual completion of the international search	Date of mailing of the international search report
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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. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,283,011 A (SPECTOR) 11 August 1981 (11.08.1981) abstract	15
A	US 4,519,800 A (MERRY) 28 May 1985 (28.05.1985) fig 3, 4	21
A	US 5,409,476 A (COATES) 25 April 1995 (25.04.1995) fig 11, col 7, ln 23-31	21