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[Continued on next page]

(54) Title: TAMPON HAVING ZONED APERTURED OVERWRAP

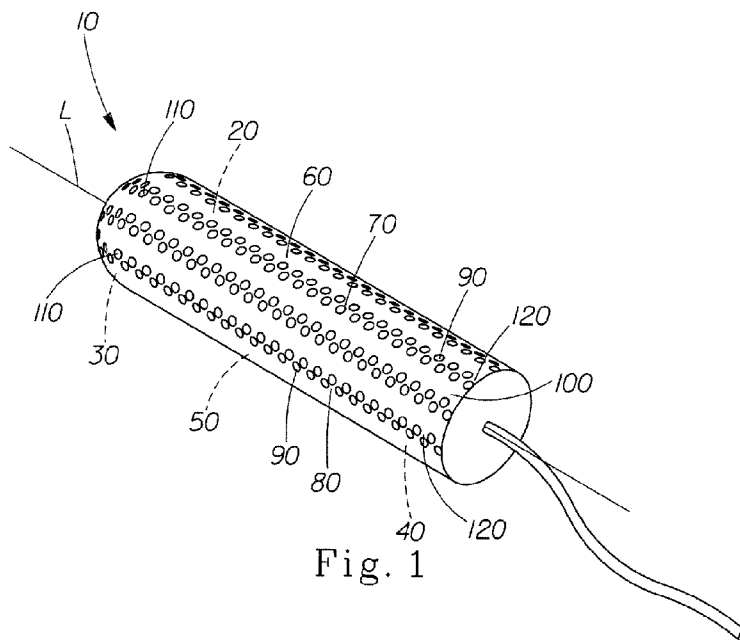


Fig. 1

(57) Abstract: Tampons having a zoned apertured overwrap. The tampons include a compressed absorbent member having an insertion end, a withdrawal end, a longitudinal axis, and a body disposed between the insertion end and the withdrawal end. The body has a perimeter disposed substantially perpendicularly to the longitudinal axis and an exterior surface. The tampons include an overwrap covering at least a portion of the exterior surface. The overwrap has a first zone and a second zone, the first zone having a plurality of apertures of a first diameter and the second zone having a plurality of apertures of a second diameter. In addition, the first- zone and the second zone can be spaced apart from one another.

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 542 914 A (VAN ITEN THOMAS P [US]) 6 August 1996 (1996-08-06) * figures 1, 11; column 1, lines 57-62; column 2, lines 62-64; column 4, lines 32-48; column 6, lines 28-43 *	1-3,5-8, 10
X	US 2 057 206 A (POHL ERNEST F) 13 October 1936 (1936-10-13) * figures 1-4; column 1, lines 49-56 *	1-10
Y	US 2003/097112 A1 (GILBERT STEVEN RAY [US] ET AL) 22 May 2003 (2003-05-22) * figure; paragraphs 6, 34 *	1-3,5-8, 10
Y	US 5 714 107 A (LEVY RUTH LISA [US] ET AL) 3 February 1998 (1998-02-03) * figures 1, 6, 7; column 2, lines 8-13 and 32-38; column 5, lines 2-5 *	1-3,5-8, 10
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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.
X	US 2001/014348 A1 (SCHOELLING HANS WERNER [DE]) 16 August 2001 (2001-08-16) * figures 1, 3; paragraphs 14, 15, 17-20, 26 *	1-3,5-10
Y	US 4 381 783 A (ELIAS ROBERT T) 3 May 1983 (1983-05-03) * column 1, lines 8-15 and 56-57; column 3, line 62 - column 4, line 5 *	1,3,5-9
Y	US 3 081 515 A (GRISWOLD HECTOR W ET AL) 19 March 1963 (1963-03-19) * figures 26, 27; column 1, lines 59-69; column 3, lines 65-68 *	1,3,5-9
X	US 2003/125687 A1 (GUBERNICK DAVID [US] ET AL) 3 July 2003 (2003-07-03) * figures 3, 4, 7; claims 14, 17; paragraphs 1-8, 26-28 *	1-3,5-8
X	US 2006/019063 A1 (KELLY WILLIAM G [US]) 26 January 2006 (2006-01-26) * figures 1e, 1g, 1h, 5, 5a, 5b, 5c, 5d, 5e, 6a; paragraphs 2, 3 *	1-3,5,7,8
X	WO 2007/114742 A (SCA HYGIENE PROD AB [SE]; HELLSTROEM JEANETTE [SE]; PERSSON ULRIKA [SE]) 11 October 2007 (2007-10-11) * figure 4; page 4, lines 29-33; page 5, lines 1-5; page 6, lines 20-21 and 25 *	1-6
X	EP 1 481 656 A (ONTEX N V [BE]) 1 December 2004 (2004-12-01) * figure 1; paragraphs 46, 47, 50-52; claim 1 *	1
X	US 2004/049167 A1 (HASSE MARGARET HENDERSON [US] ET AL) 11 March 2004 (2004-03-11) * figure; paragraphs 13 and 40 *	1
X	US 2006/217677 A1 (CHASE DAVID J [US] ET AL) 28 September 2006 (2006-09-28) * paragraph 14 *	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/079756

Patent document cited in search report.	Publication date	Patent family member(s)	Publication date
US 5542914	A	06-08-1996	NONE
US 2057206	A	13-10-1936	NONE
US 2003097112	A1	22-05-2003	NONE
US 5714107	A	03-02-1998	AU 689265 B2 26-03-1998 AU 2593195 A 18-12-1995 BR 9507741 A 23-09-1997 CA 2148289 A1 21-11-1995 CN 1154149 A 09-07-1997 DE 19581616 B4 22-02-2007 DE 19581616 T0 17-04-1997 GB 2302342 A 15-01-1997 WO 9532327 A1 30-11-1995
US 2001014348	A1	16-08-2001	NONE
US 4381783	A	03-05-1983	NONE
US 3081515	A	19-03-1963	BE 538987 A DE 1224261 B 08-09-1966 DE 1065364 B FR 1137772 A 04-06-1957 GB 836396 A 01-06-1960 NL 114076 C NL 198064 A US 3081514 A 19-03-1963 US 3081500 A 19-03-1963
US 2003125687	A1	03-07-2003	NONE
US 2006019063	A1	26-01-2006	AR 048096 A1 29-03-2006 AU 2005200754 A1 29-09-2005 BR PI0500939 A 01-11-2005 CA 2498702 A1 12-09-2005 CN 1669547 A 21-09-2005 EP 1574324 A1 14-09-2005 KR 20060043383 A 15-05-2006 MX PA05002824 A 14-09-2005 US 2005202208 A1 15-09-2005
WO 2007114742	A	11-10-2007	AU 2006341313 A1 11-10-2007 CA 2644830 A1 11-10-2007 EP 2004118 A1 24-12-2008
EP 1481656	A	01-12-2004	NONE
US 2004049167	A1	11-03-2004	US 2008177241 A1 24-07-2008
US 2006217677	A1	28-09-2006	NONE