

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 65031847PC04	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/US2018/020321</b>	International filing date ( <i>day/month/year</i> ) <b>28 February 2018 (28.02.2018)</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) 31 August 2017 (31.08.2017)
Applicant <b>KIMBERLY-CLARK WORLDWIDE, INC.</b>		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed  
 a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b.  This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box No. II)

3.  **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant.  
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant.  
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1  
 as suggested by the applicant.  
 as selected by this Authority, because the applicant failed to suggest a figure.  
 as selected by this Authority, because this figure better characterizes the invention.
- b.  none of the figures is to be published with the abstract.

**A. CLASSIFICATION OF SUBJECT MATTER****B32B 3/26(2006.01)i, B32B 27/12(2006.01)i, B32B 27/32(2006.01)i, B32B 7/00(2006.01)i**

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)

B32B 3/26; A61L 15/22; B32B 31/08; A61F 13/15; B32B 27/32; B32B 3/10; A61F 13/16; B32B 38/04; B29C 65/00; B32B 27/12; B32B 7/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords:nonwoven web, elastic film, apertured, array, olefin, stack, permanent and stretch

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002-0065009 A1 (PELKIE, JAMES E.) 30 May 2002 See paragraphs [0017], [0030]-[0039], [0062]-[0064], table 1 and figure 2.	1-4, 6-10, 15, 17
Y		5, 11-14, 16, 18-20
Y	US 4834741 A (SABEE, REINHARDT N.) 30 May 1989 See column 2, lines 38-43.	5, 12, 18, 20
Y	US 2017-0087029 A1 (3M INNOVATIVE PROPERTIES COMPANY) 30 March 2017 See paragraphs [0027], [0077] and figure 3A.	11-14, 16
Y	US 2008-0128077 A1 (BALDAUF et al.) 05 June 2008 See paragraph [0007].	19
A	US 2012-0238981 A1 (WEISMAN et al.) 20 September 2012 See paragraphs [0002]-[0009] and figure 3.	1-20

 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

"E" earlier application or patent 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 filing 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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

07 June 2018 (07.06.2018)

Date of mailing of the international search report

**07 June 2018 (07.06.2018)**

Name and mailing address of the ISA/KR

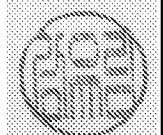
International Application Division  
Korean Intellectual Property Office  
189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea

Facsimile No. +82-42-481-8578

Authorized officer

KAM, Yoo Lim

Telephone No. +82-42-481-3516



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2018/020321**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002-0065009 A1	30/05/2002	AU 1998-74041 A1	06/09/1999
		AU 1998-74041 B2	14/02/2002
		AU 7404198 A	16/09/1999
		AU 744099 B2	14/02/2002
		BR 9712287 A	31/08/1999
		CA 2268431 A1	16/04/1998
		CA 2268431 C	04/01/2011
		CN 1181961 C	29/12/2004
		CN 1248937 A	29/03/2000
		CN 1323826 C	04/07/2007
		CN 1605452 A	13/04/2005
		EA 002839 B1	31/10/2002
		EA 199900344 A1	28/10/1999
		EP 0930962 A1	27/11/2002
		EP 0930962 B1	18/06/2003
		ES 2201273 T3	16/03/2004
		HU 0002339 A2	28/11/2000
		HU 0002339 A3	29/01/2001
		JP 2001-501883 A	13/02/2001
		JP 2009-006717 A	15/01/2009
		JP 4801123 B2	26/10/2011
		KR 10-0516326 B1	23/09/2005
		KR 10-0545476 B1	24/01/2006
		KR 10-2005-0061611 A	22/06/2005
		PL 187943 B1	30/11/2004
		PL 333111 A1	08/11/1999
		TR 9900793 T2	21/11/2001
		US 5733628 A	31/03/1998
		US 6303208 B1	16/10/2001
		US 6808789 B2	26/10/2004
		WO 98-15399 A1	16/04/1998
		WO 98-15399 A8	07/10/1999
		US 04834741 A	30/05/1989
US 2017-0087029 A1	30/03/2017	CL 2016002759 A1	17/02/2017
		CN 106460275 A	22/02/2017
		EP 3137669 A1	08/03/2017
		JP 2017-514732 A	08/06/2017
		KR 10-2016-0147939 A	23/12/2016
WO 2015-168032 A1	05/11/2015		
US 2008-0128077 A1	05/06/2008	AT 462557 T	15/04/2010
		EP 1736306 A1	27/12/2006
		EP 1736306 B1	31/03/2010
		ES 2340932 T3	11/06/2010
		JP 2007-001285 A	11/01/2007
		JP 4391466 B2	24/12/2009
		US 2006-0292328 A1	28/12/2006

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2018/020321**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		US 7422991 B2	09/09/2008
		US 7704901 B2	27/04/2010
US 2012-0238981 A1	20/09/2012	BR 112013022918 A2	06/12/2016
		CA 2830222 A1	20/09/2012
		CN 103429208 A	04/12/2013
		EP 2685952 A1	22/01/2014
		JP 2014-509530 A	21/04/2014
		JP 5933603 B2	15/06/2016
		WO 2012-125707 A1	20/09/2012