

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 64941833PC01	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2014/058372	International filing date (<i>day/month/year</i>) 30 September 2014 (30.09.2014)	(Earliest) Priority Date (<i>day/month/year</i>)
Applicant KIMBERLY-CLARK WORLDWIDE, INC.		

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 3 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.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/058372**A. CLASSIFICATION OF SUBJECT MATTER****C12M 3/00(2006.01)i, C12N 1/20(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)

C12M 3/00; A61F 13/15; B32B 38/10; A61F 13/84; D21H 27/00; A01N 25/34; A61K 9/70; B05D 3/02; A01N 33/02; D21H 27/30; C12N 1/20

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) & keywords: creped tissue web, prebiotic, creping composition

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2013-0281948 A1 (EHRNSPERGER, BRUNO JOHANNES et al.) 24 October 2013 See abstract; paragraphs [0033], [0042], [0047] and [0110]; claims 1-9.	1-20
A	US 2014-0096924 A1 (REKOSKE, MICHAEL JOHN et al.) 10 April 2014 See abstract; paragraphs [0009], [0043], [0049], [0070] and [0073]; claims 1-17.	1-20
A	US 8506978 B2 (SOERENS, DAVE ALLEN et al.) 13 August 2013 See abstract; column 3, lines 34-39; claims 12-14.	1-20
A	CN 102370598 A (TIANJIN SINOSH NEW MATERIAL TECHNOLOGY CO., LTD.) 14 March 2012 See abstract; claims 1 and 9.	1-20
A	US 2012-0164200 A1 (QIN, JIAN et al.) 28 June 2012 See abstract; paragraph [0007]; claim 1.	1-20
A	US 2009-0181157 A1 (TOREKI, WILLIAM et al.) 16 July 2009 See abstract; claims 45-51.	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

"&" document member of the same patent family

Date of the actual completion of the international search

01 June 2015 (01.06.2015)

Date of mailing of the international search report

03 June 2015 (03.06.2015)

Name and mailing address of the ISA/KR

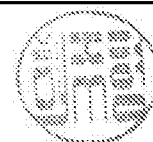
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2014/058372

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2013-0281948 A1	24/10/2013	EP 2656862 A1 WO 2013-163075 A1	30/10/2013 31/10/2013
US 2014-0096924 A1	10/04/2014	WO 2014-053947 A1	10/04/2014
US 8506978 B2	13/08/2013	AU 2013-350914 A1 EP 2659067 A2 KR 10-2014-0018853 A MX 2013007107 A US 2012-0164206 A1 WO 2012-090086 A2 WO 2012-090086 A3	13/06/2013 06/11/2013 13/02/2014 15/08/2013 28/06/2012 05/07/2012 08/11/2012
CN 102370598 A	14/03/2012	None	
US 2012-0164200 A1	28/06/2012	AU 2011-350703 A1 CN 103270213 A CN 103298990 A EP 2659041 A2 EP 2659059 A2 KR 10-2013-0133221 A KR 10-2013-0137008 A MX 2013007110 A US 2012-0160400 A1 US 2013-0157537 A1 US 8916012 B2 WO 2012-090129 A2 WO 2012-090129 A3 WO 2012-090130 A2 WO 2012-090130 A3	20/06/2013 28/08/2013 11/09/2013 06/11/2013 06/11/2013 06/12/2013 13/12/2013 15/08/2013 28/06/2012 20/06/2013 23/12/2014 05/07/2012 15/11/2012 05/07/2012 22/11/2012
US 2009-0181157 A1	16/07/2009	AU 2006-283043 A1 AU 2006-283043 B2 BR PI0617099 A2 CA 2620203 A1 CA 2620203 C CN 101291743 A CN 101291743 B EP 1937418 A2 EP 1937418 A4 JP 2009-506056 A US 2010-0330261 A1 US 7790217 B2 US 8092854 B2 WO 2007-024974 A2 WO 2007-024974 A3 ZA 200801601 A	01/03/2007 03/03/2011 12/07/2011 01/03/2007 05/11/2013 22/10/2008 27/03/2013 02/07/2008 21/09/2011 12/02/2009 30/12/2010 07/09/2010 10/01/2012 01/03/2007 12/07/2007 27/05/2009