

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P20182602	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/CN2018/094427	International filing date (<i>day/month/year</i>) 04 July 2018	(Earliest) Priority Date (<i>day/month/year</i>)
Applicant WACKER CHEMIE AG et al		

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:

Aqueous Polymer Dispersion

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. _____

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.

Box No. IV **Text of the abstract (Continuation of item 5 of the first sheet)**

A single-package polymer aqueous dispersion which has good adhesion after heating, has the advantages of long-term storage under room temperature conditions and good viscosity stability. The single-package polymer aqueous dispersion is particularly suitable for the bonding between a fiber textile material and a polymer foam material, and has high wet adhesion strength and excellent water resistance.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/094427

A. CLASSIFICATION OF SUBJECT MATTER		
C09J 131/04(2006.01)i; C09J 11/06(2006.01)i; D04H 1/587(2012.01)i; D04H 1/64(2012.01)i; A61F 13/15(2006.01)i; C08L 33/26(2006.01)i; C09J 123/08(2006.01)i; C08F 218/08(2006.01)i; C09J 133/26(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) C09J131/-; C09J11/-; D04H1/-; A61F13/-; C08L33/-; C08F218/-		
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 practicable, search terms used) WPI;EPODIC;STN:aqueous, binder, adhesive, fiber?, nowoven, emulsion, latex, acetate, ethylene, vinyl, VAE, +methylol, acrylamide, NMA, ammonium, citrate, 3458-72-8, 12125-02-9, 631-61-8		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2012220968 A1 (CELANESE INTERNATIONAL CORPORATION) 30 August 2012 (2012-08-30) description, paragraphs [0014], [0032], [0037], [0046]	1-15
Y	US 2004063809 A1 (ROHM & HAAS CO.) 01 April 2004 (2004-04-01) description, paragraphs [0008]-[0010], [0045], [0056]	1-15
A	CN 104371605 A (CHINESE ACAD FORESTRY INST. CHEM. IND. FORE.) 25 February 2015 (2015-02-25) description, paragraphs [0005]-[0014]	1-15
A	US 2006118005 A1 (3M INNOVATIVE PROPERTIES CO.) 08 June 2006 (2006-06-08) description, paragraphs [0023]-[0032]	1-15
A	US 4449978 A (AIR PRODUCTS AND CHEMICALS INC.) 22 May 1984 (1984-05-22) abstract, description, column 2 lines 29-54	1-15
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 22 March 2019		Date of mailing of the international search report 08 April 2019
Name and mailing address of the ISA/CN National Intellectual Property Administration, PRC 6, Xitucheng Rd., Jimen Bridge, Haidian District, Beijing 100088 China		Authorized officer WANG,Lina
Facsimile No. (86-10)62019451		Telephone No. (86)-10-53962217

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2018/094427

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
US	2012220968	A1	30 August 2012	CN	102650094	A	29 August 2012
				CA	2766646	A1	28 August 2012
				JP	2012179355	A	20 September 2012
				US	8785714	B2	22 July 2014
				EP	2491910	A1	29 August 2012
				MX	2012002485	A	05 September 2012
				RU	2012106807	A	27 August 2013
				EP	2491910	B1	04 June 2014

US	2004063809	A1	01 April 2004	CN	1487042	A	07 April 2004
				CN	1283739	C	08 November 2006

CN	104371605	A	25 February 2015	None			

US	2006118005	A1	08 June 2006	CA	2590704	A1	15 June 2006
				CN	101076576	A	21 November 2007
				CN	101076576	B	13 February 2013
				KR	101228275	B1	30 January 2013
				EP	1819796	A2	22 August 2007
				MX	2007006585	A	22 April 2008
				CA	2590704	C	23 June 2015
				JP	2008523208	A	03 July 2008
				US	7851522	B2	14 December 2010
				KR	20070085845	A	27 August 2007
				WO	2006062713	A3	01 March 2007
				WO	2006062713	A2	15 June 2006

US	4449978	A	22 May 1984	CA	1208083	A	22 July 1986
				EP	0121864	A3	05 December 1984
				EP	0121864	A2	17 October 1984
				JP	S59187658	A	24 October 1984
				JP	S6244056	B2	18 September 1987
