

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 17P200015JYC	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/CN2017/076952	International filing date (<i>day/month/year</i>) 16 March 2017	(Earliest) Priority Date (<i>day/month/year</i>) 10 March 2017
Applicant Hong Kong Applied Science and Technology Research Institute Company Limited		

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 5 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:

COMPOSITION FOR ADHERING POLYMER TO SUBSTRATE AND METHOD OF PREPARATION THEREOF

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.

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

It discloses a composition for adhering one or more polymers to a substrate. The composition comprises at least one first compound adapted to be coated on a surface of the substrate. The first compound comprises one or more first units each having at least one functional group adapted to chemically react with at least one monomer to form the one or more polymers. Said composition also comprises at least one second compound adapted to be coated on the surface of the substrate. The second compound comprising one or more second units interspersed among the one or more first units of the first compound. Each of the one or more second units is not chemically reactive to the at least one monomer. It also discloses a method of preparing a polymer coated surface on a substrate using the composition described.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2017/076952

A. CLASSIFICATION OF SUBJECT MATTER		
C09J 183/04(2006.01)i; C09J 165/04(2006.01)i; C09J 5/00(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) C09J183/-,C09J165/-,C09J5/-		
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) CNPAT, CA, CNKI, WPI, EPODOC, ISI: substrate, functional group?, units, chemically reactive, vinyl+, ethyl+, +oxysilane		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2012094101 A1 (TANI PETRI ET AL.) 19 April 2012 (2012-04-19) paragraphs [0011], [0021]-[0025], [0027]- [0028]	1-19
A	CN 104968497 A (LAB URGO) 07 October 2015 (2015-10-07) claims 1-19	1-19
A	US 2016272850 A1 (TESA SE.) 22 September 2016 (2016-09-22) claims 1-12	1-19
A	CN 106368062 A (SHANGHAI DONGSHENG NEW MATERIAL CO. LTD.) 01 February 2017 (2017-02-01) paragraphs [0009]-[0010]	1-19
A	CN 1042170 A (AVERY DENNISON CORP.) 16 May 1990 (1990-05-16) claims 1-40	1-19
<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 13 November 2017		Date of mailing of the international search report 13 December 2017
Name and mailing address of the ISA/CN STATE INTELLECTUAL PROPERTY OFFICE OF THE P.R.CHINA 6, Xitucheng Rd., Jimen Bridge, Haidian District, Beijing 100088 China		Authorized officer JIANG,Haiyan
Facsimile No. (86-10)62019451		Telephone No. (86-10)010-61648252

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2017/076952

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
US	2012094101	A1	19 April 2012	ES	2602090	T3	17 February 2017
				EP	2417296	B1	08 June 2016
				US	8940372	B2	27 January 2015
				FI	20095392	A0	09 April 2009
				HU	E030687	T2	29 May 2017
				CN	102388180	A	21 March 2012
				EP	2417296	A1	15 February 2012
				CN	102388180	B	09 September 2015
				WO	2010116045	A1	14 October 2010
				EP	2417296	B9	21 December 2016
CN	104968497	A	07 October 2015	EP	2961600	A1	06 January 2016
				FR	3002485	A1	29 August 2014
				WO	2014131999	A1	04 September 2014
				JP	2016516607	A	09 June 2016
				CA	2898275	A1	04 September 2014
				EP	2961600	B1	06 September 2017
				US	2016009883	A1	14 January 2016
				FR	3002485	B1	20 March 2015
US	2016272850	A1	22 September 2016	KR	20160086922	A	20 July 2016
				JP	2017503063	A	26 January 2017
				WO	2015071250	A2	21 May 2015
				CN	105745292	A	06 July 2016
				WO	2015071250	A3	23 July 2015
				TW	201526977	A	16 July 2015
				DE	102013223451	A1	21 May 2015
EP	3071662	A2	28 September 2016				
CN	106368062	A	01 February 2017	None			
CN	1042170	A	16 May 1990	JP	2627673	B2	09 July 1997
				FI	102597	B	15 January 1999
				DK	48490	A	25 April 1990
				YU	129589	A	16 November 1993
				EP	0379561	A4	08 May 1991
				BR	8907021	A	20 November 1990
				GB	8815162	D0	03 August 1988
				ES	2019145	A6	01 June 1991
				FI	900923	A0	23 February 1990
				IN	175437	B	17 June 1995
				WO	8912549	A1	28 December 1989
				DK	48490	D0	23 February 1990
				EP	0379561	A1	01 August 1990
				AU	632757	B2	14 January 1993
				DD	299522	A5	23 April 1992
				KR	960010124	B1	26 July 1996
				CN	1026792	C	30 November 1994
				DE	68926953	T2	19 December 1996
				CA	1338975	C	11 March 1997
				RU	2074820	C1	10 March 1997
				PH	30800	A	17 October 1997
				FI	102597	B1	15 January 1999

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2017/076952

Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
		AU 3859489 A	12 January 1990
		AT 141213 T	15 August 1996
		JP H03500060 A	10 January 1991
		EP 0379561 B1	14 August 1996
		US 5165976 A	24 November 1992
		MX 174087 B	20 April 1994
		DE 68926953 D1	19 September 1996
<hr/>			