

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/024734

A. CLASSIFICATION OF SUBJECT MATTER
 Int.Cl. G02B5/18(2006.01)i, B29C59/02(2006.01)i, C08F2/48(2006.01)i,
 C08F290/06(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)
 Int.Cl. G02B5/18, B29C59/02, C08F2/48, C08F290/06

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

Published examined utility model applications of Japan	1922-1996
Published unexamined utility model applications of Japan	1971-2018
Registered utility model specifications of Japan	1996-2018
Published registered utility model applications of Japan	1994-2018

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2005-084561 A (DAINIPPON PRINTING CO., LTD.) 31 March 2005, paragraphs [0016]-[0023], [0037], [0043], [0046], table 1 (Family: none)	1-36
A	JP 2007-178724 A (MITSUBISHI RAYON CO., LTD.) 12 July 2007, paragraphs [0002], [0011], [0058]-[0059] (Family: none)	1-36
A	JP 2016-112869 A (MITSUBISHI RAYON CO., LTD.) 23 June 2016, paragraph [0087] (Family: none)	1-36
A	JP 2015-087762 A (DAINIPPON PRINTING CO., LTD.) 07 May 2015, entire text, all drawings (Family: none)	1-36
A	JP 2004-004515 A (DAINIPPON PRINTING CO., LTD.) 08 January 2004, entire text, all drawings (Family: none)	1-36

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search 11 September 2018 (11.09.2018)	Date of mailing of the international search report 25 September 2018 (25.09.2018)
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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.
A	JP 2017-065173 A (ASAHI KASEI CORPORATION) 06 April 2017, entire text, all drawings (Family: none)	1-36
P, A	WO 2017/119400 A1 (DAINIPPON PRINTING CO., LTD.) 13 July 2017, entire text, all drawings & JP 2017-126064 A & JP 2018-036649 A	1-36