

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/026482

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. B29C59/04(2006.01) i, B31F1/07(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. B29C59/00-59/18, B31F1/00-7/02, B29C43/00-43/54

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.
X Y	JP 2007-261202 A (FUJIFILM CORP.) 11 October 2007, claims, paragraphs [0025]-[0062], fig. 1 (Family: none)	1-4, 6-8 5
X Y	JP 2007-98742 A (KONICA MINOLTA OPTO, INC.) 19 April 2007, claims, paragraphs [0020]-[0057], fig. 1-3 (Family: none)	1-4, 6-8 5
Y	JP 55-111224 A (THE PROCTER & GAMBLE CO.) 27 August 1980, page 6, upper right column, line 5, to line 20, fig. 1 & US 4272473 A, column 4, line 13, to line 41, fig. 1	5
Y	JP 2009-50538 A (KAO CORP.) 12 March 2009, fig. 4 & US 2010/0249740 A1 & EP 2189562 A1, fig. 4	5

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
13.08.2018

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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 2002-86562 A (SHIN-ETSU POLYMER CO., LTD.) 26 March 2002, entire text (Family: none)	1-8
A	JP 2016-159476 A (SEIREN CO., LTD.) 05 September 2016, entire text (Family: none)	1-8