

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2020/013262

A. CLASSIFICATION OF SUBJECT MATTER
 C08J 5/18(2006.01)i; B32B 27/32(2006.01)i; C09J 7/24(2018.01)i; C09J 7/29(2018.01)i; C09J 7/38(2018.01)i; C09J 7/40(2018.01)i
 FI: C08J5/18 CES; C09J7/40; C09J7/24; C09J7/38; C09J7/29; B32B27/32 E
 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)
 C08J5/00-5/02; C08J5/12-5/22; B32B1/00-43/00; B29C55/00-55/30; B29C61/00-61/10; C09J7/00-7/50

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	1971-2020
Registered utility model specifications of Japan	1996-2020
Published registered utility model applications of Japan	1994-2020

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 A	JP 2017-125184 A (TORAY INDUSTRIES, INC.) 20.07.2017 (2017-07-20) claims, paragraphs [0027], [0047]-[0075]	1, 4-5, 7-12 2-3, 6
X	WO 2017/022786 A1 (TORAY INDUSTRIES, INC.) 09.02.2017 (2017-02-09) claims, paragraphs [0024]-[0025], [0059]-[0085]	1-12
X A	WO 2016/006578 A1 (TORAY INDUSTRIES, INC.) 14.01.2016 (2016-01-14) claims, paragraphs [0023]-[0024], [0067], [0071]-[0096]	1, 3-5, 7-12 2, 6
A	JP 2014-051657 A (TOYOBO CO., LTD.) 20.03.2014 (2014-03-20) entire text	1-12
A	WO 2014/148547 A1 (TORAY INDUSTRIES, INC.) 25.09.2014 (2014-09-25) entire text	1-12
A	JP 2016-187959 A (TORAY INDUSTRIES, INC.) 04.11.2016 (2016-11-04) entire text	1-12

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 18 June 2020 (18.06.2020)	Date of mailing of the international search report 30 June 2020 (30.06.2020)
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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 2018-028075 A (TORAY INDUSTRIES, INC.) 22.02.2018 (2018-02-22) entire text	1-12

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/JP2020/013262

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
JP 2017-125184 A	20 Jul. 2017	(Family: none)	
WO 2017/022786 A1	09 Feb. 2017	CN 107849399 A	
WO 2016/006578 A1	14 Jan. 2016	KR 10-2018-0035795 A	
		US 2017/0157803 A1	
		claims, paragraphs [0023]-[0024], [0067], [0071]-[0100], table 1	
		CN 106470839 A	
		KR 10-2017-0032234 A	
JP 2014-051657 A	20 Mar. 2014	TW 201418288 A	
WO 2014/148547 A1	25 Sep. 2014	US 2016/0024641 A1	
		entire text	
		EP 2977398 A1	
		CN 105143321 A	
JP 2016-187959 A	04 Nov. 2016	(Family: none)	
JP 2018-028075 A	22 Feb. 2018	(Family: none)	