

**INTERNATIONAL SEARCH REPORT**

International application No. PCT/JP2019/045705
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**A. CLASSIFICATION OF SUBJECT MATTER**  
 B29C 45/26(2006.01)i; B29L 11/00(2006.01)n; B29C 33/42(2006.01) i  
 FI: B29C45/26; B29C33/42; B29L11:00  
 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)  
 B29C45/26; B29L11/00; B29C33/42

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.
A	JP 2003-337206 A (NIPPON SHEET GLASS CO., LTD.) 28.11.2003 (2003-11-28) entire text	1-6
A	JP 2003-139913 A (NIPPON SHEET GLASS CO., LTD.) 14.05.2003 (2003-05-14) entire text	1-6
A	JP 2005-172942 A (FUJI PLASTIC CO., LTD.) 30.06.2005 (2005-06-30) entire text	1-6
A	JP 2007-038535 A (KURARAY CO., LTD.) 15.02.2007 (2007-02-15) entire text	1-6
A	US 2010/0109172 A1 (CHEN, et al.) 06.05.2010 (2010-05-06) entire text	1-6

<input type="checkbox"/> Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.
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* 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
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Date of the actual completion of the international search 06 February 2020 (06.02.2020)	Date of mailing of the international search report 18 February 2020 (18.02.2020)
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Name and mailing address of the ISA/ Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer  Telephone No.
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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/JP2019/045705

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
JP 2003-337206 A	28 Nov. 2003	US 2002/0176172 A1 entire text TW 558647 B CN 1385714 A	
JP 2003-139918 A	14 May 2003	US 2003/0081312 A1 entire text TW 224209 B CN 1417596 A	
JP 2005-172942 A	30 Jun. 2005	(Family: none)	
JP 2007-038535 A	15 Feb. 2007	(Family: none)	
US 2010/0109172 A1	06 May 2010	CN 101722628 A	