

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/JP2018/029363

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl. A61J3/00 (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)  
Int.Cl. A61J3/00, A61J7/00, B65B1/30, B65B35/08, G07F17/00, B65D83/04

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	US 2006/0213917 A1 (HANDFIELD, Michael) 28	1-2, 4-5, 7
A	September 2006, paragraphs [0075]-[0091], fig. 2, 8-10 & US 2006/0058724 A1 & US 2006/0058725 A1 & US 2006/0058726 A1 & US 2006/0058918 A1 & US 2006/0219730 A1 & US 2006/0241806 A1 & US 2006/0249525 A1 & US 2007/0108219 A1 & US 2007/0187422 A1 & US 2008/0029531 A1 & US 2008/0029532 A1 & US 2008/0029533 A1 & US 2008/0035661 A1 & US 2008/0051935 A1 & US 2008/0140251 A1 & US 2008/0140252 A1 & US 2008/0142533 A1 & US 2008/0142534 A1 & US 2008/0173711 A1 & US 2009/0164042 A1 & US 2011/0125315 A1 & US 2011/0270441 A1 & US 2012/0259457 A1 & US 2013/0073078 A1 & US 2014/0288698 A1 & WO 2006/029509 A1 & EP 1791767 A1 & CA 2587813 A1	3, 6, 8-10

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

* Special categories of cited documents:	"I" 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 17 October 2018 (17.10.2018)	Date of mailing of the international search report 30 October 2018 (30.10.2018)
---	--

Name and mailing address of the ISA/ Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer  Telephone No.
--	---

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2018/029363

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2012/096328 A1 (YUYAMA CO., LTD.) 19 July 2012, paragraphs [0038]-[0054], fig. 18-22 & JP 2012-254830 A & JP 2013-18548 A & JP 2013-49577 A & JP 2013-56708 A & JP 2013-91569 A & US 2014/0014678 A1, paragraphs [0109]-[0126], fig. 18-22 & US 2015/0083745 A1 & US 2015/0083746 A1 & EP 2664316 A1 & EP 2756834 A1 & EP 2756835 A1 & CN 103298442 A & KR 10-2014-0005960 A & KR 10-2018-0075694 A & TW 201228889 A & CN 104523429 A & CN 104528187 A & TW 201534536 A & TW 201534537 A	1-10