

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2017/034910

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. E02F9/26(2006.01) i, E02F9/24(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. E02F9/26, E02F9/24

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	1971-2017
Registered utility model specifications of Japan	1996-2017
Published registered utility model applications of Japan	1994-2017

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 2005-264605 A (KOBELCO CONSTR MACHINERY LTD.) 29 September 2005, entire text (Family: none)	1-3
A	JP 2006-274750 A (KOBELCO CRANES CO., LTD.) 12 October 2006, entire text (Family: none)	1-3
A	JP 2015-45144 A (SUMITOMO(S.H.I.) CONSTRUCTION MACHINERY CO., LTD.) 12 March 2015, entire text (Family: none)	1-3

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	“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
“E” earlier application or patent but published on or after the international filing date	“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
“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)	“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
“O” document referring to an oral disclosure, use, exhibition or other means	“&” document member of the same patent family
“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 30 November 2017	Date of mailing of the international search report 12 December 2017
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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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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 2016-132857 A (HITACHI CONSTRUCTION MACHINERY) 25 July 2016, entire text (Family: none)	1-3
A	US 2013/0119784 A1 (VOLVO CONSTRUCTION EQUIPMENT AB) 16 May 2013, entire text & JP 2013-536333 A & WO 2012/011618 A1 & EP 2597212 A1 & CN 103025968 A	1-3