

**INTERNATIONAL SEARCH REPORT**

International application No. PCT/JP2018/029714
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**A. CLASSIFICATION OF SUBJECT MATTER**  
 Int.Cl. F04D29/70 (2006.01) i, F04D27/00 (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. F04D29/70, F04D27/00

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.
Y A	US 2017/0101863 A1 (SCHLUMBERGER TECHNOLOGY CORPORATION) 13 April 2017, paragraphs [0034]-[0048], fig. 1-4 & WO 2016/003998 A1	1-3, 5 4
Y A	JP 2015-521708 A (NUOVO PIGNONE SRL) 30 July 2015, paragraphs [0076]-[0082], fig. 18-21 & US 2015/0322952 A1, paragraphs [0089]-[0095], fig. 18-21 & WO 2013/189945 A1 & CA 2876439 A1 & CN 104641120 A	1-3, 5 4

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 October 2018 (18.10.2018)	Date of mailing of the international search report 30 October 2018 (30.10.2018)
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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	WO 2017/160411 A1 (SCHLUMBERGER TECHNOLOGY CORPORATION) 21 September 2017, entire text, all drawings & US 2017/0269258 A1	1-5
A	WO 2015/127410 A2 (GE OIL & GAS ESP, INC.) 27 August 2015, entire text, all drawings & US 2017/0306734 A1 & CA 2940171 A1	1-5