

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/044543

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. F23R3/28 (2006.01) i, F23R3/08 (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. F23R3/28, F23R3/08

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	1971-2019
Registered utility model specifications of Japan	1996-2019
Published registered utility model applications of Japan	1994-2019

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 2016-156376 A (GENERAL ELECTRIC COMPANY) 01 September 2016, paragraphs [0017]-[0029], fig. 1-6 & US 2016/0245182 A1, paragraphs [0021]-[0033], fig. 1-6 & EP 3088804 A1 & CN 105910135 A	1, 3, 6-8, 13 2, 4-5, 9-12, 14
X A	US 2009/0100837 A1 (BANK, R. S. V. D.) 23 April 2009, paragraphs [0015]-[0024], fig. 1 & EP 2051010 A1 & DE 102007050276 A1	12-14 1-11
Y	JP 9-184629 A (HITACHI, LTD.) 15 July 1997, paragraphs [0007], [0008], [0014], fig. 9 (Family: none)	1-3, 6-10, 13

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 19.12.2019	Date of mailing of the international search report 07.01.2020
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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.
Y	JP 4-15409 A (CENTRAL RESEARCH INSTITUTE OF ELECTRIC POWER INDUSTRY) 20 January 1992, page 2, lower right column, line 6 to page 3, upper left column, line 9, fig. 1 (Family: none)	1-3, 6-10, 13
A	US 6360776 B1 (ROLLS-ROYCE CORPORATION) 26 March 2002, entire text, all drawings (Family: none)	1-14
A	JP 2012-154588 A (MITSUBISHI HEAVY INDUSTRIES, LTD.) 16 August 2012, entire text, all drawings (Family: none)	1-14
A	US 2013/0025283 A1 (GENERAL ELECTRIC COMPANY) 31 January 2013, entire text, all drawings & EP 2551597 A2 & CN 102901101 A	1-14
A	JP 10-238776 A (CENTRAL RESEARCH INSTITUTE OF ELECTRIC POWER INDUSTRY) 08 September 1998, entire text, all drawings (Family: none)	1-14
A	JP 8-135970 A (HITACHI, LTD.) 31 May 1996, entire text, all drawings (Family: none)	1-14