

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2019/045114
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A. CLASSIFICATION OF SUBJECT MATTER
 Int. Cl. F16H59/38 (2006.01) i, F16H61/02 (2006.01) i, F16H61/662 (2006.01) i
 FI: F16H61/02, F16H59/38, F16H61/662

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. F16H59/38, F16H61/02, F16H61/662

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.
Y	JP 2003-130209 A (AISIN AW CO., LTD.) 08 May 2003, paragraphs [0020]-[0026], fig. 9	1-5
Y	JP 9-133203 A (HITACHI, LTD.) 20 May 1997, paragraphs [0010]-[0024], fig. 1, 4-7	1-5
A	JP 2009-537753 A (ZF FRIEDRICHSHAFEN AG) 29 October 2009, paragraphs [0026]-[0040], fig. 1-3	1-5
A	JP 2005-164001 A (FUJI HEAVY INDUSTRIES LTD.) 23 June 2005, paragraphs [0018]-[0032], fig. 1, 2	1-5
A	JP 2014-134275 A (TOYOTA MOTOR CORP.) 24 July 2014, paragraphs [0020]-[0044], fig. 1, 2	1-5

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 07.01.2020	Date of mailing of the international search report 04.02.2020
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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/JP2019/045114

Patent Documents referred to in the Report	Publication Date	Patent Family	Publication Date
JP 2003-130209 A	08.05.2003	(Family: none)	
JP 9-133203 A	20.05.1997	(Family: none)	
JP 2009-537753 A	29.10.2009	US 2009/0280948 A1 paragraphs [0031]- [0044], fig. 1-3 WO 2007/134933 A1 EP 2021810 A1 CN 101449170 A	
JP 2005-164001 A	23.06.2005	(Family: none)	
JP 2014-134275 A	24.07.2014	US 2014/0200112 A1 paragraphs [0025]- [0055], fig. 1-2 CN 103925313 A	