

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/013438

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. B60T17/18 (2006.01) i, B60T8/17 (2006.01) i, B60T13/74 (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. B60T17/18, B60T8/17, B60T13/74

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.
A	JP 2013-212814 A (NTN CORPORATION) 17 October 2013, entire text, all drawings (Family: none)	1-2
A	JP 7-9980 A (WABCO WESTINGHOUSE FAHRZEUGBREMSEN GMBH) 13 January 1995, entire text, all drawings & US 5255962 A, whole document	1-2

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 23.04.2018	Date of mailing of the international search report 01.05.2018
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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 2001-138882 A (TOYOTA MOTOR CORPORATION; DENSO CORPORATION; AISIN SEIKI) 22 May 2001, entire text, all drawings & US 6476515 B1, whole document	1-2
A	JP 7-103786 A (NIPPON SEIKI CO., LTD.) 18 April 1995, entire text, all drawings (Family: none)	1-2
A	JP 2011-43957 A (RENESAS ELECTRONICS CORP.) 03 March 2011, entire text, all drawings & US 2011/0043323 A1, whole document	1-2
A	JP 2009-158081 A (DONGBU HITEK CO., LTD.) 16 July 2009, entire text, all drawings & US 2009/0172311 A1, whole document	1-2