

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/029750

A. CLASSIFICATION OF SUBJECT MATTER
 Int.Cl. H02K1/18(2006.01) i, H02K1/02 (2006.01) i, H02K3/46(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. H02K1/18, H02K1/02, H02K3/46

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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| 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 | JP 2009-38947 A (NIDEC SHIBAURA CORP.) 19 February 2009, paragraphs [0021]-[0035], fig. 1-3 (Family: none) | 1-5 |
| Y | JP 2003-47182 A (KYO, Shunho) 14 February 2003, paragraph [0020], fig. 5A (Family: none) | 1-5 |
| Y | JP 52-86317 A (SANKYO SEIKI MFG CO., LTD.) 18 July 1977, page 2, upper left column, lines 11-13, fig. 4 (Family: none) | 1-5 |

Further documents are listed in the continuation of Box C. See patent family annex.

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| * Special categories of cited documents: | "I" 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 |
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| "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 | |

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| Date of the actual completion of the international search 12 September 2018 (12.09.2018) | Date of mailing of the international search report 25 September 2018 (25.09.2018) |
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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. |
|-----------|--|-----------------------|
| Y | JP 2010-200469 A (NISSAN MOTOR CO., LTD.) 09 September 2010, paragraphs [0049]-[0051], fig. 15 (Family: none) | 3-5 |
| Y | JP 2017-93277 A (PANASONIC IP MANAGEMENT CO., LTD.) 25 May 2017, paragraphs [0027], [0032], fig. 1-3 (Family: none) | 4-5 |
| A | JP 2002-233091 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 16 August 2002, entire text, all drawings (Family: none) | 1-5 |
| A | JP 2015-226395 A (HONDA MOTOR CO., LTD.) 14 December 2015, entire text, all drawings (Family: none) | 1-5 |