

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2019/043053

**A. CLASSIFICATION OF SUBJECT MATTER**

Int.Cl. F16C35/077(2006.01) i, F16C19/06(2006.01) i, H02K5/173(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. F16C35/077, F16C19/06, H02K5/173

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<br>Y<br>A | JP 2003-139207 A (NSK LTD.) 14 May 2003,<br>paragraphs [0022]-[0026], fig. 1<br>& US 2004/0235596 A1, paragraphs [0031]-[0035],<br>fig. 1 & WO 2003/038310 A1 | 1-4<br>5-7<br>8-10    |

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

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| * 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  |
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| "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<br>13.12.2019 | Date of mailing of the international search report<br>07.01.2020 |
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|--|---|
| Name and mailing address of the ISA/<br>Japan Patent Office<br>3-4-3, Kasumigaseki, Chiyoda-ku,<br>Tokyo 100-8915, Japan | Authorized officer<br><br>Telephone No. |
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PCT/JP2019/043053

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y<br>A    | US 2014/0270615 A1 (REGAL BELOIT AMERICA, INC.) 18<br>September 2014, paragraphs [0027]-[0059], fig. 1-10<br>(Family: none)  | 5-7<br>8-10           |
| X         | JP 39-034904 Y1 (SANYO ELECTRIC CO., LTD.) 24<br>November 1964, page 1, left column, line 31 (line 7 from the bottom) to right column, line 28, fig. 1-3<br>(Family: none) | 1-4                   |
| X         | JP 2003-294097 A (NSK LTD.) 15 October 2003,<br>paragraphs [0019], [0020], fig. 6<br>(Family: none)  | 1-4                   |
| A         | JP 2005-248985 A (KOYO SEIKO CO., LTD.) 15<br>September 2005, fig. 1-3<br>& US 2005/0189193 A1, fig. 7-9 & KR 10-2006-0043216 A & CN 1664395 A                             | 1-6                   |
| A         | JP 2016-056828 A (TOYOTA INDUSTRIES CORPORATION)<br>21 April 2016, fig. 1-3<br>(Family: none)  | 5                     |
| A         | JP 2003-239955 A (YASKAWA ELECTRIC CORPORATION) 27<br>August 2003, fig. 1, 2<br>(Family: none)   | 7-10                  |