

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2018/018633

**A. CLASSIFICATION OF SUBJECT MATTER**

Int.Cl. A61B5/16 (2006.01) i, A61B5/00 (2006.01) i, A61B5/11 (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. A61B5/16, A61B5/00, A61B5/11, A61G7/00-7/16, G08B21/02

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.      |
|-------------|---|----------------------------|
| X<br>Y<br>A | JP 2016-67812 A (SEIKO EPSON CORP.) 09 May 2016, paragraphs [0093]-[0097], [0103]-[0104], [0110]-[0123] & US 2016/0098081 A1, paragraphs [0106]-[0110], [0116]-[0117], [0123]-[0136] & CN 105476620 A | 1-4, 9, 10<br>8, 11<br>5-7 |
| Y<br>A      | JP 2014-200386 A (KISSEI COMTEC CO., LTD.) 27 October 2014, paragraph [0015] (Family: none)   | 8<br>5-7                   |
| Y<br>A      | WO 2017/061371 A1 (KONICA MINOLTA, INC.) 13 April 2017, paragraphs [0016]-[0021], fig. 1 (Family: none)   | 11<br>5-7                  |

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<br>19 July 2018 (19.07.2018) | Date of mailing of the international search report<br>31 July 2018 (31.07.2018) |
|--|---|

|  |   |
|--|---|
| 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. |
|--|---|

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2018/018633

## 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 2015-106282 A (ECONAVISTA CO., LTD.) 08 June 2015, entire text, all drawings (Family: none)    | 1-11                  |
| A         | JP 2014-151120 A (HITACHI SYSTEMS, LTD.) 25 August 2014, entire text, all drawings (Family: none) | 1-11                  |
| A         | JP 2012-170483 A (FUJITSU LTD.) 10 September 2012, entire text, all drawings (Family: none)       | 1-11                  |
| A         | JP 2016-115054 A (FUJITSU LTD.) 23 June 2016, entire text, all drawings (Family: none)            | 1-11                  |