

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/034371

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. G01R33/12 (2006.01) i, G01R33/02 (2006.01) i, G01R35/00 (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. G01R33/12, G01R33/02, G01R35/00, G01R33/16, G01R33/20

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.
A	JP 2010-60367 A (TOHOKU TECHNO ARCH CO., LTD.) 18 March 2010, paragraphs [0001], [0016]-[0030], fig. 1-12 (Family: none)	1-15
A	JP 2015-172497 A (TOHOKU GAKUIN) 01 October 2015, paragraphs [0001], [0014]-[0022], fig. 1-27 (Family: none)	1-15
A	JP 10-82845 A (RYOWA DENSHI KK) 31 March 1998, entire text, all drawings (Family: none)	1-15
A	JP 2008-58243 A (TDK CORP.) 13 March 2008, entire text, all drawings (Family: none)	1-15

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
 "E" earlier application or patent but published on or after the international filing date
 "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)
 "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
 "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
 "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
 "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
 "&" document member of the same patent family

Date of the actual completion of the international search 18.09.2019	Date of mailing of the international search report 01.10.2019
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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	WO 2018/175080 A1 (HEADWAY TECHNOLOGIES, INC.) 27 September 2018, entire text & US 2018/0267128 A1	1-15