

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/045595

A. CLASSIFICATION OF SUBJECT MATTER
 Int. Cl. H01F10/16(2006.01) i, C22C19/07(2006.01) i, G22C38/00(2006.01) i,
 H01F1/047(2006.01) i
 FI: H01F1/047, H01F10/16, C22C19/07 C, C22C38/00 303Z
 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. H01F10/16, C22C19/07, C22C38/00, H01F1/047

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 1971-2020
 Registered utility model specifications of Japan 1996-2020
 Published registered utility model applications of Japan 1994-2020

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	JP 62-60113 A (HITACHI, LTD.) 16 March 1987, page 3, lower right column, lines 10-15, page 5, upper right column, line 9 to lower left column, line 2, table 3	1-10
X	JP 2004-524708 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 12 August 2004, claim 1, paragraphs [0010], [0011], [0018], tables 4, 5	1-10

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 29.01.2020	Date of mailing of the international search report 10.02.2020
---	--

Name and mailing address of the ISA/ Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer Telephone No.
--	---

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/JP2019/045595

Patent Documents referred to in the Report	Publication Date	Patent Family	Publication Date
JP 62-60113 A	16.03.1987	(Family: none)	
JP 2004-524708 A	12.08.2004	WO 2002/088765 A1 page 4, lines 1-16, page 7, line 22 to page 8, line 5, tables 4, 5, claim 1 US 2003/0184921 A1 DE 60200949 T2 CN 1503912 A	