

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2018/020020

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl. H01H36/00 (2006.01) i, G06F3/041 (2006.01) i, G06F3/044 (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. H01H36/00, G06F3/041, G06F3/044 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.
Y A	JP 2013-246734 A (NISSHA PRINTING CO., LTD.) 09 December 2013, paragraphs [0001], [0009]-[0050], fig. 1-6 & US 2015/0193046 A1, paragraphs [0002]-[0003], [0011]-[0065], fig. 1-6 & CN 104350447 A	1, 3, 6, 7, 9 2, 4, 5, 8, 10
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> 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 06 August 2018 (06.08.2018)		Date of mailing of the international search report 14 August 2018 (14.08.2018)
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 2010-140859 A (NISSHA PRINTING CO., LTD.) 24 June 2010, paragraphs [0001], [0005]-[0033], fig. 1-2 (Family: none)	1, 3, 6, 7, 9
Y	JP 58-168138 A (NIPPON TELEGRAPH AND TELEPHONE CORPORATION) 04 October 1983, page 1, lower right column to page 2, lower right column, fig. 1-2 (Family: none)	3, 6, 7, 9
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 103222/1984 (Laid-open No. 019846/1986) (OKI ELECTRIC INDUSTRY CO., LTD.) 05 February 1986, specification, pages 5-7, fig. 1-2 (Family: none)	6, 7, 9
Y	JP 2013-182517 A (SHIN-ETSU POLYMER CO., LTD.) 12 September 2013, paragraphs [0010], [0032], [0036]-[0038], fig. 10-11 (Family: none)	7, 9