

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2018/044710
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A. CLASSIFICATION OF SUBJECT MATTER		
Int.Cl. G09F9/30(2006.01) i, G02B5/20(2006.01) i, G02F1/1335(2006.01) i, G02F1/1362(2006.01) i, H01L27/32(2006.01) i, H01L51/50(2006.01) i, H05B33/02(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. G02F1/1335, G02F1/13363, G09F9/00-9/46, H01L27/32, H01L51/50, H05B33/00-33/28		
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 2015-52718 A (DAI NIPPON PRINTING CO., LTD.) 19 March 2015, entire text, all drawings (Family: none)	1-9
A	JP 2015-50059 A (JAPAN DISPLAY INC.) 16 March 2015, entire text, all drawings & US 2015/0060827 A1 & CN 104425561 A & KR 10-2015-0026928 A & TW 201511254 A	1-9
<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 04.02.2019	Date of mailing of the international search report 19.02.2019	
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	JP 2014-56228 A (LG DISPLAY CO., LTD.) 27 March 2014, entire text, all drawings & US 2014/0071526 A1 & KR 10-1335526 B1 & CN 103686120 A & TW 201411195 A	1-9
A	JP 2000-180899 A (NEC CORPORATION) 30 June 2000, entire text, all drawings & US 6567136 B1 & TW 439297 B & KR 10-2000-0048125 A	1-9
A	JP 2015-138199 A (JAPAN DISPLAY INC.) 30 July 2015, entire text, all drawings & US 2015/0205161 A1	1-9
A	JP 2016-519173 A (CABOT CORPORATION) 30 June 2016, entire text, all drawings & US 2016/0017168 A1 & TW 201500423 A & KR 10-2015-0120509 A & CN 105209558 A	1-9