

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/014183

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. G09F9/00 (2006.01) i, G02B5/30 (2006.01) i, G02F1/1335 (2006.01) i, H01L51/50 (2006.01) i, H05B33/02 (2006.01) i, H05B33/04 (2006.01) i, H05B33/10 (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. G09F9/00, G02B5/30, G02F1/1335, H01L51/50, H05B33/02, H05B33/04, H05B33/10

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	JP 55-138715 A (HITACHI, LTD.) 29 October 1980,	6-7
Y	page 1, left column, line 8 to page 2, left column, line 1, page 2, left column, line 11 to line 17, fig. 3 (Family: none)	1-5
Y	JP 2004-258165 A (NITTO DENKO CORP.) 16 September 2004, paragraphs [0003], [0024] & US 2004/0212884 A1, paragraphs [0005], [0024] & KR 10-0912023 B1 & CN 1525195 A & TW 200426403 A	1-5
Y	JP 10-206633 A (CASIO COMPUTER CO., LTD.) 07 August 1998, paragraphs [0005], [0016] (Family: none)	1-5

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
18.06.2018

Date of mailing of the international search report
26.06.2018

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PCT/JP2018/014183

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 2013-228439 A (JAPAN DISPLAY INC.) 07 November 2013, paragraphs [0015]-[0017] (Family: none)	1-5
Y	JP 2011-22202 A (SUMITOMO CHEMICAL CO., LTD.) 03 February 2011, paragraphs [0084], [0102] (Family: none)	3-4
A	JP 2017-32676 A (SUMITOMO CHEMICAL CO., LTD.) 09 February 2017, entire text, all drawings & CN 106393922 A & KR 10-2017-0015153 A & TW 201706378 A	1-7
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 3057/1983 (Laid-open No. 133128/1983) (KABUSHIKI KAISHA SUWA SEIKOSHA) 08 September 1983, entire text, all drawings (Family: none)	1-7
A	JP 2008-152025 A (TOPCON CORP.) 03 July 2008, entire text, all drawings (Family: none)	1-7
A	JP 2016-170412 A (NITTO DENKO CORP.) 23 September 2016, entire text, all drawings & WO 2016/143885 A1 & TW 201641633 A & CN 107430231 A & KR 10-2017-0126940 A	1-7
A	JP 2015-172740 A (NITTO DENKO CORP.) 01 October 2015, entire text, all drawings & US 2017/0010399 A1, entire text, all drawings & WO 2015/125751 A1 & TW 201538338 A & CN 105980892 A & KR 10-2016-0122129 A	1-7
A	US 2010/0221455 A1 (LG CHEM, LTD.) 02 September 2010, entire text, all drawings & CN 101813801 A & KR 10-2010-0097076 A	1-7