

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/046798

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. G02F1/1335(2006.01) i, B32B7/023(2019.01) i, B32B27/30(2006.01) i, G02B5/30(2006.01) i, G02F1/1333(2006.01) i, G06F3/041(2006.01) i, G06F3/044(2006.01) i

FI: G02F1/133510, G02B5/30, G06F3/044128, G06F3/041495, G06F3/041412, B32B27/30A, B32B7/023, G02F1/1333

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, B32B7/023, B32B27/30, G02B5/30, G02F1/1333, 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	1971-2020
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 Y A	WO 2018/181415 A1 (NITTO DENKO CORPORATION) 04 October 2018, paragraphs [0030]-[0129], fig. 1-6	1, 3, 6, 9-18, 20, 23, 26-32 15, 32 2, 4-5, 7-8, 19, 21-22, 24-25
Y A	JP 2017-75986 A (SANRITZ CORP.) 20 April 2017, paragraphs [0005]-[0097]	1-5, 9, 11-22, 26, 28-32 6-8, 10, 23-25, 27
Y A	WO 2010/064551 A1 (KURARAY CO., LTD.) 10 June 2010, paragraphs [0147]-[0150]	1-5, 9, 11-22, 26, 28-32 6-8, 10, 23-25, 27

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

"I" 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
14.01.2020

Date of mailing of the international search report
28.01.2020

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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 2014-529639 A (ALLNEX BELGIUM S.A.) 13 November 2014, paragraphs [0017]-[0028]	5, 22
Y	WO 2009/119664 A1 (SONY CORPORATION) 01 October 2009, paragraphs [0019]-[0060], fig. 4, 9, 12-15	1-5, 9, 11-17
Y	JP 2014-81935 A (BEIJING BOE OPTOELECTRONICS TECHNOLOGY CO., LTD.) 08 May 2014, paragraphs [0011]-[0038], fig. 1-8	1-5, 9, 11-17

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/JP2019/046798

WO 2018/181415 A1	04 October 2018	(Family: none)
JP 2017-75986 A	20 April 2017	(Family: none)
WO 2010/064551 A1	10 June 2010	US 2011/0230609 A1 paragraph [0242] EP 2366750 A1 CA 2741804 A KR 10-2011-0084437 A
JP 2014-529639 A	13 November 2014	US 2014/0128533 A1 paragraphs [0016]-[0027] EP 2557094 A1 AU 2012292460 A CA 2840847 A CN 103732631 A KR 10-2014-0057542 A BR 112014002846 A
WO 2009/119664 A1	01 October 2009	US 2010/0182273 A1 paragraphs [0037]-[0079], fig. 4, 9, 12-15 CN 101681221 A KR 10-2010-0127164 A
JP 2014-81935 A	08 May 2014	US 2014/0104510 A1 paragraphs [0018]-[0045], fig. 1-8 EP 2720124 A2 CN 102955635 A KR 10-1520546 B