

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/047727

<p>A. CLASSIFICATION OF SUBJECT MATTER B32B 27/00(2006.01)i; B32B 27/40(2006.01)i; C09J 201/00(2006.01)i; C09J 7/29(2018.01)i; C09J 7/38(2018.01)i; B32B 7/022(2019.01)i; B32B 7/027(2019.01)i FI: B32B27/00 M; B32B7/022; B32B7/027; B32B27/40; C09J7/38; C09J7/29; C09J201/00 According to International Patent Classification (IPC) or to both national classification and IPC</p>												
<p>B. FIELDS SEARCHED</p>												
<p>Minimum documentation searched (classification system followed by classification symbols) B32B1/00-B32B43/00; C09J201/00; C09J7/29; C09J7/38</p>												
<p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <table border="0"> <tr> <td>Published examined utility model applications of Japan</td> <td>1922-1996</td> </tr> <tr> <td>Published unexamined utility model applications of Japan</td> <td>1971-2020</td> </tr> <tr> <td>Registered utility model specifications of Japan</td> <td>1996-2020</td> </tr> <tr> <td>Published registered utility model applications of Japan</td> <td>1994-2020</td> </tr> </table>			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		
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											
<p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)</p>												
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p>												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
X	JP 2018-055098 A (SAMSUNG ELECTRONICS CO., LTD.) 05.04.2018 (2018-04-05) claims, paragraphs [0001]-[0002], [0006], [0027], [0047]-[0072], [0095]-[0101], [0112]-[0142], tables 1-2, fig. 1, 4	1-8										
X	WO 2018/030701 A1 (SAMSUNG SDI CO., LTD.) 15.02.2018 (2018-02-15) claims, paragraphs [0001], [0003], [0007], [0041]-[0042], [0055]-[0060], [0077], [0091]-[0102], [0120]-[0178], tables 1, 5, fig. 1, 3	1-8										
X	WO 2017/047600 A1 (JNC CORPORATION) 23.03.2017 (2017-03-23) claims, paragraphs [0022]-[0023], [0101], [0107]-[0109], [0119]-[0126], [0133], table 2	1-8										
X	WO 2015/056467 A1 (NITTO DENKO CORP.) 23.04.2015 (2015-04-23) claims, paragraphs [0006], [0022], [0025], [0028], [0038], [0043], [0045], [0048]-[0049], [0057]-[0060], [0063], [0067], [0081]-[0083], [0087]-[0092], table 1	1-8										
<input checked="" type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.										
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>“A” document defining the general state of the art which is not considered to be of particular relevance</td> <td>“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</td> </tr> <tr> <td>“E” earlier application or patent but published on or after the international filing date</td> <td>“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</td> </tr> <tr> <td>“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)</td> <td>“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</td> </tr> <tr> <td>“O” document referring to an oral disclosure, use, exhibition or other means</td> <td>“&” document member of the same patent family</td> </tr> <tr> <td>“P” document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			“A” document defining the general state of the art which is not considered to be of particular relevance	“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	“E” earlier application or patent but published on or after the international filing date	“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	“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)	“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	“O” document referring to an oral disclosure, use, exhibition or other means	“&” document member of the same patent family	“P” document published prior to the international filing date but later than the priority date claimed	
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<p>Date of the actual completion of the international search 13 February 2020 (13.02.2020)</p>		<p>Date of mailing of the international search report 25 February 2020 (25.02.2020)</p>										
<p>Name and mailing address of the ISA/ Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan</p>		<p>Authorized officer</p> <p>Telephone No.</p>										

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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	KR 10-2018-0068840 A (SAMSUNG SDI CO., LTD.) 22.06.2018 (2018-06-22) entire text	1-8
A	WO 2018/128156 A1 (KONICA MINOLTA, INC.) 12.07.2018 (2018-07-12) entire text	1-8
A	JP 2005-343055 A (RIKEN TECHNOS CORPORATION) 15.12.2005 (2005-12-15) entire text	1-8
A	JP 2002-309188 A (SEKISUI CHEMICAL CO., LTD.) 23.10.2002 (2002-10-23) entire text	1-8

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
JP 2018-055098 A	05 Apr. 2018	US 2018/0088392 A1 claims, paragraphs [0002]-[0003], [0006], [0027], [0033]-[0052], [0077]-[0083], [0093]-[0126], tables 1-2, fig. 1, 4 EP 3299162 A1 CN 107867030 A KR 10-2018-0034056 A	
WO 2018/030701 A1	15 Feb. 2018	US 2019/0169388 A1 claims, paragraphs [0002], [0003], [0006], [0034]- [0035], [0045]- [0050], [0067], [0081]-[0089], [0106]-[0137], tables 1, 5, fig. 1, 3 CN 109564300 A KR 10-2018-0017953 A	
WO 2017 /047600 A1	23 Mar. 2017	US 2018/0258323 A1 claims, paragraphs [0037]-[0040], [0165]-[0166], [0176]-[0183], [0199]-[0209], [0218]-[0224], table 2 EP 3351604 A1 CN 109415604 A	
WO 2015/056467 A1	23 Apr. 2015	US 2016/0272851 A1 claims, paragraphs [0006], [0023], [0026], [0029], [0039], [0043], [0045], [0049]- [0050], [0058]- [0061], [0064], [0068], [0086]- [0088], [0092]- [0098], table 1 EP 3059290 A1 CN 105637054 A KR 10-2016-0074476 A	
KR 10-2018-0068840 A	22 Jun. 2018	(Family: none)	
WO 2018/128156 A1	12 Jul. 2018	(Family: none)	
JP 2005-343055 A	15 Dec. 2005	(Family: none)	
JP 2002-309188 A	23 Oct. 2002	(Family: none)	