

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/010440

<p>A. CLASSIFICATION OF SUBJECT MATTER Int.Cl. C12M3/00 (2006.01) i</p> <p>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) Int.Cl. C12M1/00-3/10, C12N1/00-7/08</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <table style="width:100%; border:none;"> <tr> <td style="width:80%;">Published examined utility model applications of Japan</td> <td style="width:20%;">1922-1996</td> </tr> <tr> <td>Published unexamined utility model applications of Japan</td> <td>1971-2018</td> </tr> <tr> <td>Registered utility model specifications of Japan</td> <td>1996-2018</td> </tr> <tr> <td>Published registered utility model applications of Japan</td> <td>1994-2018</td> </tr> </table> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) JSTPlus/JMEDPlus/JST7580 (JDreamIII), Cplus/MEDLINE/BIOSIS (STN)</p>			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
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<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Category*</th> <th style="width:70%;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="width:20%;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td align="center">A</td> <td>WO 2016/043488 A1 (CEFO CO., LTD.) 24 March 2016, claims 1-12, paragraph [0035], examples & US 2017/0283768 A1, claims 1-12, paragraph [0033], examples & JP 2017-527297 A & EP 3196298 A1 & KR 10-2016-0034541 A & CN 107075476 A</td> <td align="center">1-11</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	A	WO 2016/043488 A1 (CEFO CO., LTD.) 24 March 2016, claims 1-12, paragraph [0035], examples & US 2017/0283768 A1, claims 1-12, paragraph [0033], examples & JP 2017-527297 A & EP 3196298 A1 & KR 10-2016-0034541 A & CN 107075476 A	1-11		
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<p><input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.</p>										
<table style="width:100%; border:none;"> <tr> <td style="width:50%; vertical-align: top;"> <p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p> </td> <td style="width:50%; vertical-align: top;"> <p>“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</p> <p>“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</p> <p>“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</p> <p>“&” document member of the same patent family</p> </td> </tr> </table>			<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“&” document member of the same patent family</p>						
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<p>Date of the actual completion of the international search 06 June 2018 (06.06.2018)</p>		<p>Date of mailing of the international search report 19 June 2018 (19.06.2018)</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	JP 2016-111988 A (RICOH CO., LTD.) 23 June 2016, claims, paragraphs [0024], [0098], [0100] (Family: none)	1-11
A	JP 2001-190267 A (MITSUI CHEMICALS, INC.) 17 July 2001, claim 3 (Family: none)	1-11
A	JP 2013-99285 A (DAINIPPON PRINTING CO., LTD.) 23 May 2013, example 1 (Family: none)	1-11