

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/019284

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H01L21/306(2006.01)i, B08B3/02(2006.01)i, C03C15/00(2006.01)i,
H01L21/677(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. H01L21/306, B08B3/02, C03C15/00, H01L21/677

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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| 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. |
|-----------|--|-----------------------|
| Y | JP 2016-72414 A (SCREEN HOLDINGS CO., LTD.) 09 May 2016, paragraphs [0072]-[0087], fig. 9 (Family: none) | 1-6 |
| Y | JP 2012-124309 A (TOKYO ELECTRON LTD.) 28 June 2012, paragraph [0040] & CN 102540770 A & KR 10-2012-0064039 A & TW 201243906 A | 1-6 |
| Y | JP 2000-29070 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 28 January 2000, paragraphs [0022]-[0023] (Family: none) | 2-6 |

Further documents are listed in the continuation of Box C.

See patent family annex.

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| * Special categories of cited documents: | "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 |
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| "E" earlier application or patent but published on or after the international filing date | "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 |
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| "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 | |

Date of the actual completion of the international search
14 June 2018 (14.06.2018)

Date of mailing of the international search report
26 June 2018 (26.06.2018)

Name and mailing address of the ISA/
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INTERNATIONAL SEARCH REPORT

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PCT/JP2018/019284

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 2011-198892 A (DAINIPPON SCREEN MFG. CO., LTD.) 06 October 2011, paragraph [0064] & CN 102194657 A & KR 10-2011-0105327 A & TW 201135819 A | 2-6 |
| Y | JP 2007-21406 A (DAINIPPON SCREEN MFG. CO., LTD.) 01 February 2007, paragraph [0079] (Family: none) | 3-6 |
| Y | JP 2006-278606 A (DAINIPPON SCREEN MFG. CO., LTD.) 12 October 2006, paragraph [0040] (Family: none) | 3-6 |
| Y | JP 2015-67512 A (AVANSTRATE INC.) 13 April 2015, paragraph [0032] (Family: none) | 5-6 |
| A | JP 10-284379 A (DAINIPPON SCREEN MFG. CO., LTD.) 23 October 1998, entire text, all drawings & KR 10-0265104 B | 1-6 |