

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2018/036054

**A. CLASSIFICATION OF SUBJECT MATTER**

Int.Cl. C09K11/61(2006.01)i, C09K11/08(2006.01)i, C09K11/64(2006.01)i,  
C09K11/66(2006.01)i, C09K11/67(2006.01)i, H01L33/50(2010.01)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. C09K11/61, C09K11/08, C09K11/64, C09K11/66, C09K11/67, H01L33/50

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)

CAplus/REGISTRY (STN)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y         | WO 2014/103932 A1 (SHIN-ETSU CHEMICAL CO., LTD.) 03 July 2014, claims, paragraphs [0041]-[0043], examples, etc. & US 2015/0329770 A1, claims, paragraphs [0067]-[0068], examples & EP 2774966 A1 & CN 104024374 A & KR 10-2015-0100487 A | 1-11                  |
| Y         | JP 2015-108068 A (SHOWA DENKO KABUSHIKI KAISHA) 11 June 2015, claims, paragraphs [0039]-[0058], [0145], examples 1-4 (Family: none)  | 1-11                  |

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  
25 October 2018 (25.10.2018)

Date of mailing of the international search report  
06 November 2018 (06.11.2018)

Name and mailing address of the ISA/  
Japan Patent Office  
3-4-3, Kasumigaseki, Chiyoda-ku,  
Tokyo 100-8915, Japan

Authorized officer

Telephone No.

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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         | US 2017/0153382 A1 (LEXTAR ELECTRONICS CORPORATION) 01 July 2017, paragraph [0151] & JP 2017-142486 A & EP 3192846 A2 & KR 10-2017-0063417 A & CN 107017325 A  | 10-11                 |
| Y         | JP 2017-128740 A (MITSUBISHI CHEMICAL CORPORATION) 27 July 2017, claims, paragraphs [0103]-[0165] & US 2010/0142189 A1, paragraphs [0167]-[0200] & WO 2009/099211 A1 & EP 2242119 A1 & CN 101939857 A & KR 10-2010-0127204 A | 10-11                 |
| Y         | JP 2017-152566 A (SHARP CORP.) 31 August 2017, claims, paragraphs [0068]-[0095] (Family: none)   | 10-11                 |