

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2020/003990

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. F25B1/00(2006.01) i, C09K5/04(2006.01) i
 FI: C09K5/04F, F25B1/00396Z

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. F25B1/00, C09K5/04

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)

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.
X	JP 2016-011423 A (ASAHI GLASS CO., LTD.) 21.01.2016 (2016-01-21), claims, paragraphs [0056], [0057], [0065], [0083]-[0092], [0124], examples, etc.	1-14
X	WO 2015/186671 A1 (ASAHI GLASS CO., LTD.) 10.12.2015 (2015-12-10), claims, paragraphs [0038]-[0043], [0052]-[0118], examples, etc.	1-14
X	WO 2015/186670 A1 (ASAHI GLASS CO., LTD.) 10.12.2015 (2015-12-10), claims, paragraphs [0038]-[0043], [0052]-[0132], examples, etc.	1-14
X	WO 2015/186557 A1 (ASAHI GLASS CO., LTD.) 10.12.2015 (2015-12-10), claims, paragraphs [0078]-[0081], [0094]-[0126], examples, etc.	1-14
P, X	WO 2020/017520 A1 (DAIKIN INDUSTRIES, LTD.) 23.01.2020 (2020-01-23), claims, etc.	1-14

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
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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

“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
 05.03.2020

Date of mailing of the international search report
 31.03.2020

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/JP2020/003990

JP 2016-011423 A	21.01.2016	US 2016/0333243 A1 claims, paragraphs [0078], [0114], [0115]-[0137], [0139]-[0145], examples EP 3101082 A1 CN 106029821 A WO 2015/115252 A1
WO 2015/186671 A1	10.12.2015	US 2017/0058172 A1 claim, paragraphs [0040]-[0048], [0060]-[0125], examples EP 3153567 A1 CN 106414682 A
WO 2015/186670 A1	10.12.2015	US 2017/0058174 A1 claims, paragraphs [0040]-[0048], [0060]-[0143], examples EP 3153561 A1 CN 106414653 A
WO 2015/186557 A1	10.12.2015	US 2017/0058173 A1 claims, paragraphs [0082]-[0085], [0107]-[0146], examples EP 3153559 A1 CN 106414654 A
WO 2020/017520 A1	23.01.2020	(Family: none)