

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/017692

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. C25D5/14 (2006.01) i, B32B15/04 (2006.01) i, C25D5/50 (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. C25D5/14, B32B15/04, C25D5/50

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	JP 6-200382 A (INAX CORP.) 19 July 1994, claims, paragraph [0025], table 1, example C (Family: none)	1-4, 6 <u>5-6</u> 7-8
Y A	JP 63-105990 A (KAWASAKI STEEL CORP.) 11 May 1988, page 1, lower right column, lines 10-18 (Family: none)	5-6 <u>1-4, 7-8</u>
A	WO 2006/043507 A1 (YAMAHA MOTOR CO., LTD.) 27 April 2006, paragraphs [0071]-[0073], fig. 3 & US 2008/0274373 A1, paragraphs [0087]-[0089], fig. 3 & EP 1845176 A1	1-8

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

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28.05.2018

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INTERNATIONAL SEARCH REPORTInternational application 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.
A	JP 2001-279489 A (DOWA MINING CO., LTD.) 10 October 2001, claims, paragraph [0006] (Family: none)	1-8
A	JP 59-050195 A (TOAGOSEI CHEMICAL INDUSTRY) 23 March 1984, page 2, lower right column, line 2 to page 3, upper right column, line 1 (Family: none)	1-8