

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2018/043568

A. CLASSIFICATION OF SUBJECT MATTER
Int. Cl. C22B13/00 (2006.01) i, C22B7/00 (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. C22B13/00, C22B7/00

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	US 5944869 A (ENTE PER LE NUOVE TECNOLOGIE, L'ENERGIA E L'AMBIENTE (ENEA)) 31 August 1999, column 1, lines 6-11, column 8, line 8 to column 9, line 31, column 11, lines 27-61, tables 1-4 & EP 08812923 A1	1-3, 6, 8-12 4, 5, 8-13 7, 14-18
Y A	WO 2016/183428 A1 (AQUA METALS INC.) 17 November 2016, claim 1, paragraph [0024] & US 2018/0127852 A1 & CN 107849634 A & JP 2018-517848 A	4, 8-13 1-3, 5-7, 14-18
Y A	JP 63-501023 A (EXTRAMET) 14 April 1988, claim 1, page 2, upper left column, lines 2-19 & WO 87/02068 A1 & FR 2589885 A	5, 8-13 1-4, 6, 7, 14-18

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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 "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
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27.12.2018

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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	WO 2011/013149 A1 (MILLBROOK LEAD RECYCLING TECHNOLOGIES LIMITED) 03 February 2011, entire text & US 2012/0186397 A1 & CN 102576918 A & JP 2013-500566 A	1-18