



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 16 91 86 76

### Classification of the application (IPC):

C22C 38/00, C21D 8/06, C21D 9/52, C22C 38/32, C22C 38/02, C22C 38/04,  
C22C 38/18, C22C 38/26, C22C 38/24, C22C 38/22, C22C 38/06, C22C 38/28

### Technical fields searched (IPC):

C21D, C22C, D07B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y A	JP H08295991 A (NIPPON STEEL CORP) 12 November 1996 (1996-11-12) * abstract; claims 1-5; tables 1, 2 * * paragraphs [0022], [0035], [0032] *	1, 2, 4 3
X Y A	EP 2687619 A1 (NIPPON STEEL & SUMITOMO METAL CORP [JP]) 22 January 2014 (2014-01-22) * paragraphs [0012], [0074], [0077]; claims 1,2; tables 1-4 *	5, 6 1, 2, 4 3

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 06 March 2020	Examiner Rausch, Elisabeth
------------------------------	---	-------------------------------

### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 16 91 86 76

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 06-03-2020  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP H08295991	A	12-11-1996	JP 3434079 B2 04-08-2003
			JP H08295991 A 12-11-1996
EP 2687619	A1	22-01-2014	CN 102959115 A 06-03-2013
			EP 2687619 A1 22-01-2014
			JP 5224009 B2 03-07-2013
			JP WO2012124679 A1 24-07-2014
			KR 20130034029 A 04-04-2013
			US 2014000767 A1 02-01-2014
			WO 2012124679 A1 20-09-2012