



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 15 89 83 20

### Classification of the application (IPC):

**C22C 38/00, B22D 11/124, C22C 38/26, C22C 38/54, C21D 8/02, C21D 9/00, C21D 1/26, C21D 1/28, C21D 9/46, C21D 6/00, C22C 38/02, C22C 38/04, C22C 38/44, C22C 38/48, C22C 38/50, C22C 38/46**

### Technical fields searched (IPC):

C21D, B22D, C22C

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2014207879 A1 (NISSHIN STEEL CO LTD [JP]) 31 December 2014 (2014-12-31) * table 1, ex. P; table 2 ex. 40, 41 * & EP 3015561 A1 (NISSHIN STEEL CO LTD [JP]) 04 May 2016 (2016-05-04)	1-4
A	CN 103764862 A (NIPPON STEEL & SUMITOMO METAL CORP) 30 April 2014 (2014-04-30) * tables 1-3, ex. V *	1-4
A	JP 4303644 B2 (NIPPON STEEL CORP) 29 July 2009 (2009-07-29) * tables 1-2 *	1-4

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 16 January 2019	Examiner Kreutzer, Ingo
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### CATEGORY OF CITED DOCUMENTS

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|---|--|
| 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 |
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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
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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 16-01-2019.  
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