



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 86 92 87

Classification of the application (IPC):

C22C 38/42, C22C 38/44, C22C 38/46, C22C 38/50, C22C 38/54, C21D 1/18, C21D 1/25, C21D 6/00, C21D 8/10, C21D 9/08, B22D 18/00, F16L 9/02

Technical fields searched (IPC):

B22D, F16L, C22C, C21D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	JP H08120399 A (SUMITOMO METAL IND) 14 May 1996 (1996-05-14) * paragraph [0001] *	1, 3-7, 9, 11-15
A	* paragraph [0016] - paragraph [0046] * * table 3; compounds 24-27 * * table 4; compound 37 * * table 8; compounds 24-27 * * table 9; compound 37 *	2, 8, 10
A	EP 2796587 A1 (JFE STEEL CORP [JP]) 29 October 2014 (2014-10-29) * paragraph [0001] * * table 1 * * claims 1-6 *	1-15
A	JP 2007332442 A (JFE STEEL KK) 27 December 2007 (2007-12-27) * paragraph [0001] * * tables 1-2 * * claims 1-9 *	1-15

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 24 April 2019	Examiner Neibecker, Pascal
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CATEGORY OF CITED DOCUMENTS

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| 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

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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 24-04-2019
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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP H08120399	A	14-05-1996	NONE		
EP 2796587	A1	29-10-2014	AR	089398 A1	20-08-2014
			BR	112014015190 A2	13-06-2017
			CA	2857439 A1	27-06-2013
			CN	104011251 A	27-08-2014
			EP	2796587 A1	29-10-2014
			JP	2013129879 A	04-07-2013
			RU	2014130096 A	20-02-2016
			US	2014352836 A1	04-12-2014
			WO	2013094179 A1	27-06-2013
JP 2007332442	A	27-12-2007	JP	4978073 B2	18-07-2012
			JP	2007332442 A	27-12-2007