



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 90 69 29

Classification of the application (IPC):
B22D 11/115, B22D 11/10

Technical fields searched (IPC):
B22D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	EP 1486274 A1 (JFE STEEL CORP [JP]) 15 December 2004 (2004-12-15) * paragraphs [0011], [0075] - [0077] * * figures 5-7 *	1-4
A	JP 2007105745 A (NIPPON STEEL CORP) 26 April 2007 (2007-04-26) * abstract; figure 1; table 1 *	1-4
A	JP 2005152996 A (JFE STEEL KK) 16 June 2005 (2005-06-16) * abstract; figures 1-12; 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 Munich	Date of completion of the search 13 March 2020	Examiner Lombois, Thierry
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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

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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 13-03-2020
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date				
EP 1486274	A1	15-12-2004	CN 1638893 A	13-07-2005			
			EP 1486274 A1	15-12-2004			
			EP 2425912 A2	07-03-2012			
			JP 4380171 B2	09-12-2009			
			JP 2003320440 A	11-11-2003			
			KR 20040081809 A	22-09-2004			
			KR 20060080594 A	10-07-2006			
			KR 20060080595 A	10-07-2006			
			US 2005092458 A1	05-05-2005			
			US 2009236069 A1	24-09-2009			
			US 2010318213 A1	16-12-2010			
			WO 03074213 A1	12-09-2003			
			JP 2007105745	A	26-04-2007	JP 4746398 B2	10-08-2011
						JP 2007105745 A	26-04-2007
JP 2005152996	A	16-06-2005	JP 4407260 B2	03-02-2010			
			JP 2005152996 A	16-06-2005			