

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 0 273 279 A2 (NISSHIN STEEL CO LTD [JP]) 6 July 1988 (1988-07-06)	1,2,6,7	INV. B21B3/02
Y	* page 6, lines 2-41; claims 1,4-6,10;	4,9-13	B21B1/40
A	examples 1,3,5; tables 1,3,5,7,9,11,13 * * page 7, lines 10-43 *	5,8	C21D1/26 C21D8/02 C22C38/00
X	----- CN 101 748 339 A (BAOSHAN IRON & STEEL) 23 June 2010 (2010-06-23)	1-3,5-8	C22C38/20 C22C38/40
A	* paragraphs [0001] - [0004], [0010], [0012], [0027] - [0031]; claims 1-8; tables 2,4 *	9	H01L31/0392 C22C38/02 C22C38/04 C22C38/18
Y	----- WO 2005/015645 A1 (SANDVIK AB [SE]; SCHUISKY MIKAEL [SE]; CEDERGREN MAGNUS [SE]) 17 February 2005 (2005-02-17)	4,10-13	C23C14/02 C21D9/46 C21D8/04
A	* page 1 - page 3 * * page 6, lines 14-30 * * page 9, line 1 - page 10, line 34; claims 1,11-13 *	1,3,8	
X	----- US 5 411 610 A (ARAKI JUN [JP] ET AL) 2 May 1995 (1995-05-02)	1,5-7	TECHNICAL FIELDS SEARCHED (IPC)
Y	* the whole document *	9	H01L
A		8	
A	----- US 2010/051105 A1 (PINARBASI MUSTAFA [US]) 4 March 2010 (2010-03-04)	1-13	
	* the whole document *		
A	----- EP 2 098 600 A1 (JFE STEEL CORP [JP]; THYSSENKRUPP STEEL AG [DE]) 9 September 2009 (2009-09-09)	1-13	
	* the whole document *		
	----- 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 <b>Berlin</b>		Date of completion of the search <b>16 February 2017</b>	Examiner <b>Visentin, Alberto</b>
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 11 84 6119

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  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

16-02-2017

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0273279	A2	06-07-1988	BR 8707115 A	02-08-1988
			CA 1308997 C	20-10-1992
			CN 87105997 A	13-07-1988
			DE 3787961 D1	02-12-1993
			DE 3787961 T2	19-05-1994
			EP 0273279 A2	06-07-1988
			ES 2044905 T3	16-01-1994
			US 4824491 A	25-04-1989
-----				
CN 101748339	A	23-06-2010	NONE	
-----				
WO 2005015645	A1	17-02-2005	CN 1836338 A	20-09-2006
			EP 1665390 A1	07-06-2006
			JP 2007502536 A	08-02-2007
			KR 20060115990 A	13-11-2006
			SE 0302206 A	13-02-2005
			US 2008257404 A1	23-10-2008
			WO 2005015645 A1	17-02-2005
-----				
US 5411610	A	02-05-1995	DE 69229596 D1	19-08-1999
			DE 69229596 T2	18-11-1999
			EP 0572674 A1	08-12-1993
			JP 3176403 B2	18-06-2001
			JP H05171362 A	09-07-1993
			US 5411610 A	02-05-1995
			WO 9313235 A1	08-07-1993
-----				
US 2010051105	A1	04-03-2010	NONE	
-----				
EP 2098600	A1	09-09-2009	AT 506458 T	15-05-2011
			CA 2654363 A1	19-08-2009
			CN 101514427 A	26-08-2009
			EP 2098600 A1	09-09-2009
			JP 5167487 B2	21-03-2013
			JP 2009197251 A	03-09-2009
			KR 20090089791 A	24-08-2009
			RU 2009105578 A	27-08-2010
			TW 200940717 A	01-10-2009
			US 2009214892 A1	27-08-2009
-----				