



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 21 84 70 37

### Classification of the application (IPC):

C22C 38/00, C22C 38/02, C22C 38/04, C22C 38/12, B22D 11/00, B22D 11/22, C22C, B22D, C21C  
C21C 7/06, C21C 7/072

### Technical fields searched (IPC):

C22C, B22D, C21C

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	GB 1289373 A (JONES & LAUGHLIN STEEL CORP) 20 September 1972 (1972-09-20) * abstract; claims 1, 5,6; tables 1-4 *	1-10
X	<b>YANG YINGDONG ET AL:</b> "Effect of Nitrogen Content Control on Surface Cracks of S450J0-T Hot-rolled H-shaped steel" <i>SHANGHAI JINSHU</i> CN 31 May 2018 (2018-05-31), vol. 40, no. 3, ISSN: 1001-7208, pages 69-72, XP055889397 * abstract; tables 1-2 * * page 70 - page 72 *	1-10
X	CN 1405351 A (ANYANG IRON AND STEEL CO LTD [CN]) 26 March 2003 (2003-03-26) * abstract; claims 1-5; examples 1-2 *	1-10
X	US 3173782 A (MELLOY GEORGE F ET AL) 16 March 1965 (1965-03-16) * abstract; claims 1-6; tables 1-4 *	1-10

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 17 September 2024	Examiner Mikloweit, Alexander
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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 17-09-2024.  
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date	
GB 1289373	A	20-09-1972	CA	924540 A	17-04-1973
			DE	2033002 A1	28-01-1971
			GB	1289373 A	20-09-1972
			JP	S518093 B1	13-03-1976
			US	3666452 A	30-05-1972
CN 1405351	A	26-03-2003	NONE		
US 3173782	A	16-03-1965	NONE		