



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 20 81 07 24

Classification of the application (IPC):  
B21J 5/00, C22C 14/00, C22F 1/18

Technical fields searched (IPC):  
C22C, C22F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	JP H08283890 A (NIPPON STEEL CORP) 29 October 1996 (1996-10-29) * paragraph [0020] - paragraph [0030] * * examples 5-6; tables 1, 3 * * claims 1-4 *	1-11
Y	CN 106987754 B (UNIV NORTHWESTERN POLYTECHNICAL) 19 October 2018 (2018-10-19) * paragraph [0006] - paragraph [0019] * * Embodiment 3 * * claim 1 *	1-11
Y	US 5205875 A (HUANG SHYH-CHIN [US]) 27 April 1993 (1993-04-27) * column 18 - column 19; example 28A; table VIII * * claims 1-5 *	1-9
A	CN 100425722 C (UNIV JINAN [CN]) 15 October 2008 (2008-10-15) * Embodiment; page 6 * * claims 1-2 *	1-11

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 2023	Examiner Neibecker, Pascal
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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 24-04-2023  
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP H08283890	A	29-10-1996	NONE	
CN 106987754	B	19-10-2018	NONE	
US 5205875	A	27-04-1993	EP 0545613 A1	09-06-1993
			JP H05255781 A	05-10-1993
			US 5205875 A	27-04-1993
CN 100425722	C	15-10-2008	NONE	