



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 21 90 71 25

Classification of the application (IPC):
B22D 11/04, B22D 11/041

Technical fields searched (IPC):
B22D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	JP 5180876 B2 (MISHIMA KOSAN CO LTD; NIPPON STEEL CORP) 10 April 2013 (2013-04-10) * claim 1; figures 1-3, 2B *	1-17
X	JP 5673149 B2 (JFE STEEL CORP) 18 February 2015 (2015-02-18) * claim 1; figure 2 *	1-17
X	JP 2012250274 A (MISHIMA KOSAN CO LTD; NIPPON STEEL & SUMITOMO METAL CORP) 20 December 2012 (2012-12-20) * claim 1; figures 5,7,8,12,13,15,17,18 *	1-17
A	WO 2019221469 A1 (POSCO CO LTD) 21 November 2019 (2019-11-21) * figures 9-20,22 *	1-17

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 15 April 2024	Examiner Momeni, Mohammad
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CATEGORY OF CITED DOCUMENTS

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|---|--|
| 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 |
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ANNEX TO SUPPLEMENTARY EUROPEAN
SEARCH REPORT

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EP 21 90 71 25

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			JP	2010201450 A	16-09-2010
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			JP	2012157872 A	23-08-2012
JP 2012250274	A	20-12-2012	JP	5639960 B2	10-12-2014
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			EP	3795273 A1	24-03-2021
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			KR	20190130430 A	22-11-2019
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