



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 21 91 57 22

Classification of the application (IPC):

C21D 8/00, C21D 1/673, C21D 9/00, C21D 1/18, B21D 22/02, B21D 37/16, C22C 38/00

Technical fields searched (IPC):

C21D, B21D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2019043161 A1 (SCHWARTZ GMBH [DE]) 07 March 2019 (2019-03-07)	1-5, 7-10, 15, 16
A	* Claims 1, 11; Figs. 1-5; pg. 13 last paragraph *	11-14, 17-20
X	EP 1830147 A1 (SCHWARTZ EVA [DE]) 05 September 2007 (2007-09-05)	1-10, 15, 16
A	* Fig. 1, claim 7; §35-§37, §42 *	11-14, 17-20
A	US 2017183754 A1 (FROST GEORG [DE] ET AL) 29 June 2017 (2017-06-29)	1-20
	* the whole document *	
X,P	EP 3839079 A1 (HYUNDAI STEEL CO [KR]) 23 June 2021 (2021-06-23)	1-3, 6-8, 15, 16
A,P	* claims 1, 2, 5-11,13,14 , Figs. 1, 4, 5, 7; §76 *	4, 5, 12-14, 17-20
X	KR 20200036248 A (HYUNDAI STEEL CO [KR]) 07 April 2020 (2020-04-07)	1, 8-10, 15, 16
A	* claims 1-5 *	2-7, 17-20
X	KIM HYE-JIN : "Effects of Prior Austenite Grain Size on Hydrogen Delayed Fracture of Hot-Stamped Boron Martensitic Steel" <i>METALLURGICAL AND MATERIALS TRANSACTIONS A</i> , SPRINGER US, NEW YORK, 11 November 2019 (2019-11-11), vol. 51, no. 1, DOI: 10.1007/S11661-019-05523-3, ISSN: 1073-5623, pages 237-251, XP036975639	1, 8-10, 15, 16
A	* II Materials, VI conclusions; Table 1, Figs. 1,3, 6 *	2-7, 12-14, 17-20

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 October 2024	Examiner Abrasonis, Gintautas
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CATEGORY OF CITED DOCUMENTS

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| | L: document cited for other reasons |
| & : member of the same patent family, corresponding document | |

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Application number:
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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X A	HUANG WEN ET AL: "Suppression of hydrogen-induced damage in 22MnB5 hot stamping steel by microalloying" <i>MATERIALS CHEMISTRY AND PHYSICS</i> , ELSEVIER SA, SWITZERLAND, TAIWAN, REPUBLIC OF CHINA, 19 August 2020 (2020-08-19), vol. 256, DOI: 10.1016/J.MATCHEMPHYS.2020.123729, ISSN: 0254-0584, XP086323373 * abstract, sections "Introduction", 2.1 "Materials and heat treatments", "3.1. Microstructure characteristics", "4.Discussion", "Conclusions", Table 1. *	1, 8-10, 15, 16 2-7, 12-14, 17-20

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 October 2024	Examiner Abrasonis, Gintautas
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CATEGORY OF CITED DOCUMENTS

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Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
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