

Title (en)
A HYDROGEN EMBRITTLEMENT RESISTANCE COATED STEEL

Title (de)
WASSERSTOFFVERSPRÖDUNGSBESTÄNDIGER BESCHICHTETER STAHL

Title (fr)
ACIER REVÊTU PRÉSENTANT DE LA RÉSISTANCE À LA FRAGILISATION PAR L'HYDROGÈNE

Publication
EP 4263915 A1 20231025 (EN)

Application
EP 20828352 A 20201217

Priority
IB 2020062078 W 20201217

Abstract (en)
[origin: WO2022129997A1] A method of production of a coated steel substrate comprising of the steps to have a steel substrate;performing electroplating of the steel substrate with an electroplating solution having a pH of from 2 to 6 and containing 100g/l to 500g/l of NiSO4 and 1 g/l to 15g/l of MoS2, by applying a current density from 15 A/dm2 to 45 A/dm2 during 30 seconds to 300 seconds to generate a layer of Ni-MoS2 coating; thereafter, rinsing the steel substrate and drying it to obtain a coated steel substrate.

IPC 8 full level
C25D 3/12 (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C25D 15/00** (2006.01)

CPC (source: EP KR US)
C21D 1/19 (2013.01 - EP KR); **C21D 1/26** (2013.01 - EP KR); **C21D 6/002** (2013.01 - US); **C21D 6/005** (2013.01 - US); **C21D 6/008** (2013.01 - US); **C21D 8/0205** (2013.01 - US); **C21D 8/0226** (2013.01 - EP KR US); **C21D 8/0236** (2013.01 - EP KR US); **C21D 8/0263** (2013.01 - EP KR US); **C21D 8/0273** (2013.01 - EP KR); **C21D 8/0278** (2013.01 - US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/001** (2013.01 - US); **C22C 38/002** (2013.01 - US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/26** (2013.01 - EP KR US); **C22C 38/28** (2013.01 - EP KR US); **C22C 38/32** (2013.01 - US); **C25D 3/12** (2013.01 - EP KR US); **C25D 3/562** (2013.01 - KR); **C25D 5/48** (2013.01 - KR); **C25D 7/0614** (2013.01 - KR); **C25D 15/00** (2013.01 - EP KR)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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KH MA MD TN

DOCDB simple family (publication)
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