Title (en)

MULTILAYER SCALE PROTECTION SYSTEM FOR STEELS WHICH CAN BE PRESS HARDENED

Title (de)

MEHRSCHICHTIGES ZUNDERSCHUTZSYSTEM FÜR PRESSHÄRTBARE STÄHLE

Title (fr)

SYSTÈME ANTICALAMINAGE MULTI-COUCHE POUR ACIERS DURCISSABLES PAR PRESSION

Publication

EP 3287546 A1 20180228 (DE)

Application

EP 17185771 A 20170810

Priority

DE 102016115746 A 20160824

Abstract (de)

Die vorliegende Erfindung bezieht sich auf eine Schutzschicht für Stähle, die als Zunderschutzsystem dienen kann und aus zwei Schichten unterschiedlicher Glasübergangstemperatur besteht.

IPC 8 full level

C23C 28/04 (2006.01); **C23C 18/12** (2006.01); **C23C 18/18** (2006.01); **C23C 18/28** (2006.01)

CPC (source: EP)

C23C 18/1212 (2013.01); **C23C 18/1241** (2013.01); **C23C 18/1254** (2013.01); **C23C 18/127** (2013.01); **C23C 18/1295** (2013.01); **C23C 28/042** (2013.01)

Citation (search report)

- [I] DE 102007015635 A1 20081002 - SCHAEFFLER KG [DE]
- [I] WO 2011144603 A1 20111124 - RWTH AACHEN [DE], et al
- [A] DE 102007038215 A1 20090219 - NANO X GMBH [DE]
- [I] YEKEHTAZ M ET AL: "Effect of nano-particulate sol-gel coatings on the oxidation resistance of high-strength steel alloys during the press-hardening process", MATERIALS AND CORROSION, WILEY, vol. 63, no. 10, 1 October 2012 (2012-10-01), pages 940 - 947, XP001579026, ISSN: 0947-5117, [retrieved on 20120807], DOI: 10.1002/MACO.201206729

Cited by

EP3974180A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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