

Title (en)

PROCESS FOR PRODUCING AN ACTIVE CATHODIC ANTI-CORROSION COATING ON STEEL COMPONENTS

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER AKTIVEN KATHODISCHEN KORROSIONSSCHUTZBESCHICHTUNG AUF BAUTEILEN AUS STAHL

Title (fr)

PROCÉDÉ DE FABRICATION D'UN REVÊTEMENT ACTIF, CATHODIQUE, ANTICORROSION SUR DES COMPOSANTS EN ACIER

Publication

EP 2191030 A2 20100602 (DE)

Application

EP 08801131 A 20080812

Priority

- DE 2008001298 W 20080812
- DE 102007038215 A 20070813

Abstract (en)

[origin: WO2009021489A2] The invention relates to a process for producing an active anti-corrosion coating on steel components. In order to develop an active anti-corrosion coating which can be applied on an industrial scale using conventional means (e.g. dipping, spraying, flooding) and is intended for hot-formed and in particular press-hardened steel parts provided with anti-scaling means, the invention proposes a process comprising the following process steps: a. using a steel element provided with an anti-scaling layer, b. annealing the steel element at a temperature above 600°C in an annealing furnace for the purpose of hardening, semi-hot or hot forming or press-hardening, in which case a reaction layer is produced, and c. applying an anti-corrosion coating to the annealed reaction layer.

IPC 8 full level

C23C 2/00 (2006.01); **C09D 7/48** (2018.01); **C23C 26/00** (2006.01)

CPC (source: EP KR US)

B05D 7/14 (2013.01 - KR); **C09D 1/00** (2013.01 - EP KR US); **C09D 5/10** (2013.01 - EP KR US); **C09D 7/48** (2017.12 - EP US); **C09D 7/61** (2017.12 - KR); **C23C 2/00** (2013.01 - EP KR US); **C23C 26/00** (2013.01 - EP US); **B05D 2202/10** (2013.01 - KR); **B05D 2701/40** (2013.01 - KR); **C08K 3/08** (2013.01 - EP KR US); **C08K 3/22** (2013.01 - EP KR US); **Y02T 50/60** (2013.01 - US)

Citation (search report)

See references of WO 2009021489A2

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007038215 A1 20090219; CN 101815805 A 20100825; CN 101815805 B 20130626; EP 2191030 A2 20100602; JP 2010535944 A 20101125; KR 20100052534 A 20100519; US 2010175794 A1 20100715; WO 2009021489 A2 20090219; WO 2009021489 A3 20100218

DOCDB simple family (application)

DE 102007038215 A 20070813; CN 200880103232 A 20080812; DE 2008001298 W 20080812; EP 08801131 A 20080812; JP 2010520418 A 20080812; KR 20107005510 A 20080812; US 73314008 A 20080812