

Title (en)
METHOD FOR THE PRODUCTION OF COATED AND HARDENED COMPONENTS MADE OF STEEL, AND COATED AND HARDENABLE STEEL STRIP THEREFOR

Title (de)
VERFAHREN ZUM HERSTELLEN VON BESCHICHTETEN UND GEHÄRTETEN BAUTEILEN AUS STAHL UND BESCHICHTETES UND HÄRTBARES STAHLBAND HIERFÜR

Title (fr)
PROCÉDÉ SERVANT À FABRIQUER DES PIÈCES EN ACIER REVÊTUES ET TREMPÉES ET BANDE D'ACIER CORRESPONDANTE REVÊTUE ET POUVANT ÊTRE TREMPÉE

Publication
EP 2220259 A1 20100825 (DE)

Application
EP 08864850 A 20081218

Priority
• EP 2008010850 W 20081218
• DE 102007061489 A 20071220

Abstract (en)
[origin: CA2705700A1] The invention relates to a method for the production of a hardened component made of a hardenable steel, wherein the steel strip is exposed to a temperature increase in an oven, and is thus exposed to an oxidizing treatment such that a surface oxide layer is created, and subsequently a coating using a metal or a metal alloy is carried out. The strip is heated and at least partially austenitized for producing an at least partially hardened component, and subsequently cooled and thereby hardened. The invention also relates to a steel strip produced according to said method.

IPC 8 full level
C23C 2/28 (2006.01); **C21D 1/68** (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C21D 9/48** (2006.01); **C23C 2/02** (2006.01); **C23C 2/06** (2006.01); **C23C 2/12** (2006.01)

CPC (source: EP KR US)
C21D 1/68 (2013.01 - EP KR US); **C21D 8/0205** (2013.01 - KR); **C21D 8/0278** (2013.01 - EP KR US); **C21D 8/0478** (2013.01 - EP US); **C21D 9/48** (2013.01 - EP KR US); **C23C 2/0038** (2022.08 - EP KR US); **C23C 2/022** (2022.08 - KR); **C23C 2/0222** (2022.08 - EP KR US); **C23C 2/06** (2013.01 - EP KR US); **C23C 2/12** (2013.01 - EP KR US); **C23C 2/261** (2022.08 - EP KR US); **C23C 2/28** (2013.01 - EP US); **C23C 2/29** (2022.08 - EP KR US); **C21D 1/673** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **Y10T 428/24983** (2015.01 - EP US)

Cited by
EP2984198B1; CN103320589A; WO2020079200A1; DE102018217835A1

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 102007061489 A1 20090625; BR PI0817353 A2 20150331; BR PI0817353 B1 20170606; CA 2705700 A1 20090702; CA 2705700 C 20160426; CN 101918599 A 20101215; CN 101918599 B 20160601; EP 2220259 A1 20100825; EP 2220259 B1 20120815; EP 2220259 B9 20121219; ES 2393093 T3 20121218; JP 2011508824 A 20110317; JP 5776961 B2 20150909; KR 20100113492 A 20101021; MX 2010005433 A 20100618; US 2011076477 A1 20110331; US 9090951 B2 20150728; WO 2009080292 A1 20090702

DOCDB simple family (application)
DE 102007061489 A 20071220; BR PI0817353 A 20081218; CA 2705700 A 20081218; CN 200880121231 A 20081218; EP 08864850 A 20081218; EP 2008010850 W 20081218; ES 08864850 T 20081218; JP 2010538467 A 20081218; KR 20107013840 A 20081218; MX 2010005433 A 20081218; US 80918608 A 20081218