

Title (en)  
HOT-DIP COATING METHOD IN A ZINC BATH FOR STRIPS OF IRON/CARBON/MANGANESE STEEL

Title (de)  
VERFAHREN ZUR FEUERVERZINKTEN BESCHICHTUNG IN EINEM ZINKBAD FÜR STREIFEN AUS EISEN-KARBON-MANGAN-STAHL

Title (fr)  
PROCÉDÉ DE REVÊTEMENT AU TREMPÉ À CHAUD DANS UN BAIN DE ZINC DES BANDES EN ACIER FER-CARBONE-MANGANÈSE

Publication  
**EP 1805341 B1 20080507 (FR)**

Application  
**EP 05809221 A 20051010**

Priority  
• FR 2005002491 W 20051010  
• FR 0411190 A 20041020

Abstract (en)  
[origin: WO2006042930A1] The invention relates to a hot-dip coating method in a liquid bath of zinc, comprising aluminium, for a strip of running austenitic iron/carbon/manganese steel, whereby said strip is subjected to a thermal treatment in an oven within which a reducing atmosphere with relation to iron is present, to give a strip covered with a thin layer of manganese oxide, said strip covered with the thin layer of manganese oxide is then run through said bath, the content of aluminium of which is adjusted to give a value at least equal to the content necessary such that the aluminium completely reduces the layer of manganese oxide such as to form a coating on the surface of the strip, comprising a layer of iron/manganese/zinc alloy and an outer layer of zinc.

IPC 8 full level  
**C23C 2/02** (2006.01); **C23C 2/06** (2006.01)

CPC (source: EP KR US)  
**C23C 2/02** (2013.01 - EP US); **C23C 2/0222** (2022.08 - EP KR US); **C23C 2/0224** (2022.08 - EP KR US); **C23C 2/06** (2013.01 - EP KR US); **C23C 2/40** (2013.01 - KR); **Y10S 428/939** (2013.01 - EP US); **Y10T 428/12799** (2015.01 - EP US)

Cited by  
DE102018128131A1; WO2010122097A1; EP2432910B1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**FR 2876711 A1 20060421**; **FR 2876711 B1 20061208**; AT E394517 T1 20080515; BR PI0516997 A 20080930; CA 2584449 A1 20060427; CA 2584449 C 20100824; CN 100554487 C 20091028; CN 101072892 A 20071114; DE 602005006603 D1 20080619; EP 1805341 A1 20070711; EP 1805341 B1 20080507; ES 2306247 T3 20081101; JP 2008517157 A 20080522; JP 4828544 B2 20111130; KR 100911639 B1 20090812; KR 20070064373 A 20070620; MX 2007004728 A 20070615; PL 1805341 T3 20081031; RU 2007118637 A 20081127; RU 2363756 C2 20090810; US 2008083477 A1 20080410; US 7556865 B2 20090707; WO 2006042930 A1 20060427; ZA 200703345 B 20080430

DOCDB simple family (application)  
**FR 0411190 A 20041020**; AT 05809221 T 20051010; BR PI0516997 A 20051010; CA 2584449 A 20051010; CN 200580041860 A 20051010; DE 602005006603 T 20051010; EP 05809221 A 20051010; ES 05809221 T 20051010; FR 2005002491 W 20051010; JP 2007537321 A 20051010; KR 20077011318 A 20070518; MX 2007004728 A 20051010; PL 05809221 T 20051010; RU 2007118637 A 20051010; US 57753605 A 20051010; ZA 200703345 A 20070423