

Title (en)

Method for manufacturing a steel tube having improved corrosion-resistance

Title (de)

Verfahren zur Herstellung eines Stahlrohres mit verbesserter Korrosionsbeständigkeit

Title (fr)

Méthode de fabrication d'un tube en acier ayant une résistance à la corrosion améliorée

Publication

EP 1760166 B1 20160914 (EN)

Application

EP 06116733 A 20060706

Priority

KR 20050081692 A 20050902

Abstract (en)

[origin: EP1760166A2] Disclosed is a steel tube with superior corrosion-resistance treated with plating and a manufacturing method of the same. The manufacturing method of the steel tube includes the steps of: preheating a steel tube formed through a milling process; maintaining the temperature of the preheated steel tube above a predetermined temperature, and creating a reduction atmosphere; melting an Al-Zn alloy containing 55 wt% of aluminum and 43.4-44.9 wt.% of zinc, and plating the molten alloy over the surface of the steel tube; cooling the steel tube; and coating the surface of the steel tube with a resin.

IPC 8 full level

C23C 2/02 (2006.01); **B05D 7/14** (2006.01); **C23C 2/00** (2006.01); **C23C 2/12** (2006.01); **C23C 2/16** (2006.01); **C23C 2/24** (2006.01); **C23C 2/26** (2006.01); **C23C 28/00** (2006.01); **C23C 28/02** (2006.01)

CPC (source: EP KR US)

B05D 7/146 (2013.01 - EP); **B21D 51/00** (2013.01 - KR); **C21D 1/00** (2013.01 - KR); **C23C 2/00** (2013.01 - EP KR US); **C23C 2/00342** (2022.08 - EP KR US); **C23C 2/0035** (2022.08 - EP KR US); **C23C 2/00362** (2022.08 - EP KR US); **C23C 2/0038** (2022.08 - EP KR US); **C23C 2/0222** (2022.08 - EP KR US); **C23C 2/0224** (2022.08 - EP KR US); **C23C 2/024** (2022.08 - EP KR US); **C23C 2/12** (2013.01 - EP); **C23C 2/16** (2013.01 - EP); **C23C 2/24** (2013.01 - EP); **C23C 2/26** (2013.01 - EP KR US); **C23C 28/00** (2013.01 - EP); **C23C 28/021** (2013.01 - EP); **B05D 2350/65** (2013.01 - EP)

Citation (examination)

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Citation (opposition)

Opponent : TI Automotive (Heidelberg) GmbH

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Designated contracting state (EPC)

DE IT

DOCDB simple family (publication)

EP 1760166 A2 20070307; **EP 1760166 A3 20080416**; **EP 1760166 B1 20160914**; CN 1924075 A 20070307; CN 1924075 B 20100602; JP 2007070725 A 20070322; JP 4423273 B2 20100303; KR 100667174 B1 20070112

DOCDB simple family (application)

EP 06116733 A 20060706; CN 200610112176 A 20060815; JP 2006186782 A 20060706; KR 20050081692 A 20050902