

Title (en)  
METHOD FOR MANUFACTURING HOT-DIP GALVANIZED STEEL SHEET

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES FEUERVERZINKTEN STAHLBLECHS

Title (fr)  
PROCÉDÉ DE FABRICATION DE TÔLE D'ACIER GALVANISÉE PAR TREMPAGE À CHAUD

Publication  
**EP 3369836 B1 20191009 (EN)**

Application  
**EP 16859230 A 20160805**

Priority  
• JP 2015211121 A 20151027  
• JP 2016003631 W 20160805

Abstract (en)  
[origin: EP3369836A1] A method of producing a hot-dip galvanized steel sheet whereby favorable coating appearance can be obtained with high coating adhesion even in the case of hot-dip galvanizing a steel strip whose Si content is 0.2 mass% or more is provided. The method includes: annealing a steel strip by conveying the steel strip through a heating zone, a soaking zone, and a cooling zone in this order inside an annealing furnace; and applying a hot-dip galvanized coating onto the steel strip discharged from the cooling zone. Reducing gas or non-oxidizing gas supplied into the soaking zone includes humidified gas and dry gas. While a width and a sheet passing speed of the steel strip passing through the soaking zone are constant, a variation of pressure in the annealing furnace is suppressed by adjusting a flow rate of the dry gas, and a variation range of an amount of moisture supplied into the soaking zone by the humidified gas is limited to 20 % or less.

IPC 8 full level  
**C21D 1/76** (2006.01); **C21D 9/56** (2006.01); **C23C 2/02** (2006.01); **C23C 2/06** (2006.01); **C23C 2/28** (2006.01); **C23C 2/40** (2006.01)

CPC (source: EP KR US)  
**C21D 1/76** (2013.01 - EP KR US); **C21D 9/56** (2013.01 - KR); **C21D 9/561** (2013.01 - EP US); **C21D 9/573** (2013.01 - EP US); **C23C 2/003** (2013.01 - EP US); **C23C 2/0038** (2022.08 - EP KR US); **C23C 2/004** (2022.08 - EP US); **C23C 2/022** (2022.08 - KR); **C23C 2/0222** (2022.08 - EP KR US); **C23C 2/0224** (2022.08 - EP US); **C23C 2/06** (2013.01 - EP KR US); **C23C 2/261** (2022.08 - KR); **C23C 2/28** (2013.01 - EP KR US); **C23C 2/29** (2022.08 - KR); **C23C 2/40** (2013.01 - EP KR US); **C23C 2/50** (2022.08 - KR); **C22C 38/00** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US)

Designated contracting state (EPC)  
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