

Title (en)  
PROCESS FOR PRODUCING HOT-DIP GALVANIZED STEEL SHEET WITH ZINC PHOSPHATE COAT

Title (de)  
VERFAHREN ZUR HERSTELLUNG FEUERVERZINKTER STAHLBLECHE MIT ZINKPHOSPHATÜBERZUG

Title (fr)  
PROCEDE DE PRODUCTION D'UNE FEUILLE D'ACIER GALVANISE PAR IMMERSION A CHAUD AYANT UN REVETEMENT EN PHOSPHATE DE ZINC

Publication  
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Application  
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Abstract (en)  
The present invention provides a method for manufacturing hot-dip galvanized steel sheet having zinc phosphate coating which is possible to keep the composition balance of the treatment agent constant, to reduce the manufacturing cost, and to minimize the burden to the environment. It also provides a galvanized steel sheet having phosphate coating which exhibits excellent lubricity and adhesiveness by the above method. The invention is a method for continuously manufacturing hot-dip galvanized steel sheet having zinc phosphate coating comprising the steps of: a surface conditioning agent supply process for supplying a surface conditioning agent to a surface of hot-dip galvanized steel sheet; a pre-drying process for drying the surface conditioning agent in a post-process of the surface conditioning agent supply process; and a treatment agent supply process for supplying treatment agent containing zinc phosphate solution to the surface of the hot-dip galvanized steel sheet in a post-process of the pre-drying process.

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**C23C 2/26** (2013.01 - EP KR US); **C23C 22/12** (2013.01 - EP KR); **C23C 22/13** (2013.01 - EP KR); **C23C 22/362** (2013.01 - EP KR); **C23C 22/73** (2013.01 - EP KR); **C23C 22/78** (2013.01 - EP); **C23C 22/80** (2013.01 - EP KR)

Cited by  
EP3392375A1; EP3392376A1; KR20170106342A; US8329013B2; US11479865B2; WO2018192707A1; US11486044B2; WO2018178108A1; US11453947B2; US10774223B2; WO2018192709A1; WO2016102265A1

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