

Title (en)
CONTINUOUS HOT-DIP METAL PLATING METHOD AND CONTINUOUS HOT-DIP METAL PLATING EQUIPMENT

Title (de)
KONTINUIERLICHES SCHMELZTAUCHVERFAHREN UND AUSRÜSTUNG FÜR KONTINUIERLICHES SCHMELZTAUCHVERFAHREN

Title (fr)
PROCÉDÉ DE MÉTALLISATION PAR IMMERSION À CHAUD EN CONTINU ET MATÉRIEL DE MÉTALLISATION PAR IMMERSION À CHAUD EN CONTINU

Publication
EP 3205741 B1 20230405 (EN)

Application
EP 15848228 A 20150916

Priority
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• JP 2015004715 W 20150916

Abstract (en)
[origin: EP3205741A1] To provide a continuous hot-dip metal coating method that uses a gas wiping nozzle to control the coating weight and prevents occurrence of coating surface defects so that high-quality hot-dip metal-coated steel strips can be stably manufactured at a low cost. A galvanized steel strip and a continuous hot-dip metal coating facility are also provided. A continuous hot-dip metal coating method includes continuously immersing a steel strip into a molten metal bath and blowing gas from a gas wiping nozzle onto the steel strip immediately after the steel strip is withdrawn from the molten metal bath so as to control a coating weight, in which a temperature T of wiping gas to be injected from the gas wiping nozzle is controlled on a basis of a D/B value, which is a ratio of a distance D between a tip of the gas wiping nozzle and the steel strip to a gap B of the gas wiping nozzle.

IPC 8 full level
C22C 18/04 (2006.01); **C23C 2/06** (2006.01); **C23C 2/20** (2006.01)

CPC (source: EP KR)
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Citation (examination)
• JP 2014055307 A 20140327 - JFE STEEL CORP
• EP 1466994 A1 20041013 - NIPPON STEEL CORP [JP]
• EP 0707897 A1 19960424 - KAWASAKI STEEL CO [JP]

Cited by
US11104983B2; US2021310109A1; US11802329B2; EP4253592A3; US11655531B2; WO2019057635A1; US11332816B2; US11643714B2

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