

Title (en)
METHOD FOR PRODUCING A STEEL STRIP WITH IMPROVED BONDING OF METALLIC HOT-DIP COATINGS

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES STAHLBANDES MIT VERBESSERTER HAFTUNG METALLISCHER SCHMELZTAUCHÜBERZÜGE

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE BANDE D'ACIER À ADHÉRENCE AMÉLIORÉE DE DÉPÔTS MÉTALLIQUES PAR IMMERSION À CHAUD

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Application
EP 19703657 A 20190130

Priority
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Abstract (en)
[origin: WO2019154680A1] The invention relates to a method for producing a steel strip, which contains along with iron as the main constituent and unavoidable impurities one or more of the oxygen-affine elements in % by weight: Al: more than 0.02, Cr: more than 0.1, Mn: more than 1.3 or Si: more than 0.1, wherein the surface of the steel strip is cleaned, the steel strip is annealed and the steel strip thus treated and annealed is subsequently coated with a hot-dip coating. In order to be less cost-intensive and achieve uniform, reproducible bonding conditions for the coating, it is proposed that, before the annealing, the steel strip is oxygen-treated at temperatures below 200°C, wherein, by the formation of oxides with iron, an oxide film containing iron oxide is formed on the surface of the steel strip and in the course of the annealing is reductively treated under a reducing atmosphere to achieve a surface that substantially consists of metallic iron.

IPC 8 full level
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