

Title (en)
PROCESS FOR COATING A HOT- OR COLD-ROLLED STEEL STRIP CONTAINING 6 - 30% BY WEIGHT OF MN WITH A METALLIC PROTECTIVE LAYER

Title (de)
VERFAHREN ZUM BESCHICHTEN EINES 6 - 30 GEW.-% MN ENTHALTENDEN WARM- ODER KALTGEWALZTEN STAHLBANDS MIT EINER METALLISCHEN SCHUTZSCHICHT

Title (fr)
PROCÉDÉ DE RECOUVREMENT D'UN FEUILLARD D'ACIER LAMINÉ À CHAUD OU À FROID ET CONTENANT DE 6 À 30 % EN POIDS DE MN PAR UNE COUCHE MÉTALLIQUE DE PROTECTION

Publication
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Application
EP 07802701 A 20070820

Priority
• EP 2007058602 W 20070820
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Abstract (en)
[origin: US2010065160A1] A method for coating hot-rolled or cold-rolled steel strip containing 6-30 wt %. Mn with a metallic protective layer, includes annealing the steel strip at a temperature of 800-1100° C. under an annealing atmosphere containing nitrogen, water and hydrogen and then subjecting the steel strip to hot dip coating. The method provide an economical way of hot dip coating a high manganiferous sheet steel in that, in order to produce a metallic protective layer substantially free from oxidic sub-layers on the steel strip, the % H₂O/% H₂ ratio of the water content % H₂O to the hydrogen content % H₂ in the annealing atmosphere is adjusted as a function of the respective annealing temperature TG as follows: % H₂O/% H₂ $\geq 8 \cdot 105 \cdot TG^{3.529}$.

IPC 8 full level
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See references of WO 2008022980A2

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US 2010065160 A1 20100318; **US 8394213 B2 20130312**; AT E486974 T1 20101115; AU 2007287602 A1 20080228; AU 2007287602 B2 20101125; CA 2660398 A1 20080228; CA 2660398 C 20131105; CN 101506403 A 20090812; CN 101506403 B 20111228; DE 102006039307 B3 20080221; DE 502007005570 D1 20101216; EP 2054536 A2 20090506; EP 2054536 B1 20101103; ES 2353438 T3 20110302; JP 2010501725 A 20100121; KR 101463221 B1 20141119; KR 20090040349 A 20090423; PL 2054536 T3 20110429; WO 2008022980 A2 20080228; WO 2008022980 A3 20081030

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