

Title (en)
METHOD FOR PRODUCING A HOT-ROLLED FLAT STEEL PRODUCT

Title (de)
VERFAHREN ZUM HERSTELLEN EINES WARMGEWALZTEN STAHLFLACHPRODUKTS

Title (fr)
PROCÉDÉ DE FABRICATION D'UN PRODUIT EN ACIER PLAT LAMINÉ A CHAUD

Publication
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Application
EP 11794191 A 20111214

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Abstract (en)
[origin: WO2012095232A1] The invention relates to a method for generating a flat steel product, in an economical and reliably operating manner, from a steel comprising a high Al content in addition to a high Mn content. The method according to the invention comprises the working steps of: fusing a steel melt S, comprising, in addition to Fe and unavoidable contaminants (in wt %) C: 0.5 - 1.3 %, Mn: 18 - 26 %, Al: 5.9 - 11.5 %, Si: < 1 %, Cr: < 8 %, Ni : < 3 %, Mo: < 2 %, N: < 0.1 %, B: < 0.1 %, Cu: < 5 %, Nb: < 1 %, Ti: < 1 %, V: < 1 %, Ca: < 0.05 %, Zr: < 0.1 %, P: < 0.04 %, S: < 0.04 %; casting the steel melt into a cast strip; heating the cast strip to an initial hot-rolling temperature of 1100 - 1300 °C at a heating rate of at least 20 K/s; hot rolling the cast strip heated to the initial hot-rolling temperature into a hot strip; cooling the hot strip within 10 s after the hot rolling at a cooling rate of at least 100 K/s to < 400 °C; and winding the cooled hot strip into a coil at a coiling temperature of up to 400 °C.

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