Title (en)

METHOD FOR PRODUCING NON-GRAIN ORIENTED ELECTRIC SHEET STEEL

Title (de)

VERFAHREN ZUM HERSTELLEN VON NICHT KORNORIENTIERTEM ELEKTROBLECH

Title (fr)

PROCEDE DE PRODUCTION D'UNE TOLE ELECTRIQUE A GRAINS NON ORIENTES

Publication

EP 1194599 A1 20020410 (DE)

Application

EP 00920746 A 20000429

Priority

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Abstract (en)

[origin: WO0102611A1] The invention relates to a method for producing non-grain oriented electric sheet steel in which a hot rolled strip is produced from a feed material, such as cast slabs, strips, pre-strips, or thin slabs which are made of a steel containing (in weight %) C: 0.001 - 0.05 %, Si: </= 1.5 %, Al: </= 0.4 % with Si + 2Al </= 1.7 %, Mn: 0.1 - 1.2 %, optionally up to a total of 1.5 % of alloy supplements, such as P, Sn, Sb, Zr, V, Ti, N, Ni, Co, Nb and/or B, and, as a remainder, iron as well as common companion elements. The hot rolled strip is produced by hot rolling the feed material, in a plurality of deforming passes, directly from the molten state or after a preceding reheating to a reheating temperature ranging from at least 1000 DEG C to a maximum of 1180 DEG C and by subsequently coiling the same. During the hot rolling, at least the first deforming pass is carried out in the austenite range, and one or more deforming passes are subsequently carried out in the ferrite range with a total deformation epsilon h of at least 45 %.

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