

Title (en)
METHOD FOR PRODUCING GRAIN ORIENTED ELECTRIC SHEETS AND USE OF A STEEL FOR ELECTRIC SHEETS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON KORNIORIENTIERTEM ELEKTROBLECH UND VERWENDUNG EINES STAHL FÜR ELEKTROBLECH

Title (fr)
PROCEDE DE FABRICATION DE TOLES ELECTRIQUES A GRAINS ORIENTES ET UTILISATION D'UN ACIER POUR TOLES ELECTRIQUES

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Application
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Abstract (en)
[origin: WO9909221A1] The invention relates to a method for producing grain oriented electric sheets. In this method, a steel slab is first of all heated to a temperature below the solubility temperature of manganese sulphide but above the solubility temperature of copper sulphide, then heated through and finally hot-rolled at an initial temperature of at least 960 DEG C and a final temperature of 880-1000 DEG C, until a final thickness of the hot-rolled sheet of 1.5-7.0mm is obtained. The hot-rolled sheet is then annealed for 100-600s at a temperature of 880-1150 DEG C, cooled and cold-rolled. The cold-rolled band is annealed, during which decarbonization and recrystallization take place. After applying an MgO-containing separating agent, the cold-rolled band is annealed at high temperature, and, after applying an insulating coating, subjected to final annealing. The invention is characterized in that a steel slab with fine grain globulite structure is used, in which at least 90 % of the grains have a diameter of not more than 1/25 of the slab thickness, and an extension factor of at least 0.5.

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