Title (en)

METHOD FOR THE PRODUCTION OF ELECTRICAL SHEET WITH NON-ORIENTED GRAINS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON NICHTKORNORIENTIERTEM ELEKTROBLECH

Title (fr)

PROCEDE POUR PRODUIRE UNE TOLE ELECTRIQUE A GRAINS NON ORIENTES

Publication

EP 1444372 B1 20050223 (DE)

Application

EP 02779558 A 20021114

Priority

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Abstract (en)

[origin: WO03042416A1] The invention relates to a method for the production of cold-rolled magnetic sheet or strip, with non-oriented granularity and a final thickness of </= 0.75 mm, comprising the following working steps: smelting a steel with (in wt. %) C: </= 0.01 %, Mn: </= 1.5 %, Si: 0.1 - 4.5 %, Al: 0.001 - 2.0 %, P: </= 0.1 %, Sn: </= 0.15 %, Sb: </= 0.15 %, the remainder iron and unavoidable impurities, casting the steel to give thin slabs, a heat treatment of the cast thin slab or strip following on continuously after the casting, hot-rolling of the thin slab or strip following continuously after the heat treatment to give a hot strip with a final thickness of </= 1.8 mm, winding the hot strip, cold-rolling the hot strip to give a cold strip with a final thickness of </= 0.75 mm and a final heat treatment of the cold strip. Said invention combines the effects of the application of a continuous casting and rolling unit (in-line casting and rolling) with the effects of the reduction in complexity on cold-rolling by application of continuously cast hot-rolled strip made from FeSi steels with a thickness of </= 1.8 mm, preferably </= 1.2 mm.

IPC 1-7

C21D 8/12

IPC 8 full level

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