

Title (en)

Process for manufacturing non grain-oriented magnetic steel sheet and sheet obtained by this process

Title (de)

Verfahren zum Herstellen nicht kornorientierter Elektrobleche und nach diesem Verfahren hergestellte Bleche

Title (fr)

Procédé de fabrication de tole d'acier magnétique à grains non orientés et tole obtenue par le procédé

Publication

EP 1473371 B1 20061025 (FR)

Application

EP 04014453 A 19970121

Priority

- EP 97400114 A 19970121
- FR 9600808 A 19960125

Abstract (en)

[origin: EP0786528A1] A magnetisable sheet with non-oriented grains is made from steel, which is prepared under vacuum and contains 0.05-0.5% manganese and less than 0.5% silicon, 0.03% aluminium, 0.20% phosphorous, 0.015% sulphur, and 0.01% each of carbon, nitrogen and oxygen. A slab of the steel is heated to below 1300 deg. C and hot-rolled, with a final temperature below 950 deg. C, then wound into a roll at over 550 deg. C to facilitate crystallisation. Subsequently the steel is scoured, cold-rolled in at least one stage to reduce its thickness to no more than 1.5 mm and then annealed. Also claimed are the sheets of steel of various thicknesses and defined in terms of their magnetisation and hysteresis losses.

IPC 8 full level

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CPC (source: EP)

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Cited by

CN102834528A; ITRM20090681A1; EP1752548A1; AU2006274900B2; KR101365652B1; EP1752549A1; AU2006274901B2; KR101365653B1; US8088229B2; US8038806B2; US9328396B2; WO2007014868A1; WO2011077470A1; WO2007014867A1; TWI402352B; TWI402353B

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