

Title (en)

Process for manufacturing grain oriented electrical steel sheets for transformers

Title (de)

Verfahren zum Herstellen von kornorientierten Elektrostahlblechen für Transformatoren

Title (fr)

Procédé de fabrication d'une tôle d'acier électrique à grains orientés notamment pour transformateurs

Publication

EP 0732413 B1 20010926 (FR)

Application

EP 96400486 A 19960308

Priority

FR 9502916 A 19950314

Abstract (en)

[origin: EP0732413A1] Electrical steel sheet is made by concasting steel of composition in wt. %:- 0.02-0.09 C; 2.5-4 Si; 0.027-0.17 Mn; 0.007-0.02 S; 0.01-0.03 Al; 0.004-0.012 N; 0.06-5 Cu; balance Fe and impurities. The concast slab or strip is reheated to 1200-1300 deg. C before being hot rolled to a thickness of 1-5 mm and then coiled at 500-700 deg. C. The strip is then cold rolled to below 0.5 mm, annealed to produce a primary recrystallisation and a decarburisation in a moist atmosphere and then coated with MgO. Finally it is annealed to produce a secondary recrystallisation and coated with an insulation layer which is fired.

IPC 1-7

C21D 8/12; **C22C 38/02**

IPC 8 full level

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CPC (source: EP KR)

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ITRM20080617A1; FR2761081A1; EP1162280A3; US6153019A; CN1073163C; US6361621B1; CN1089373C; US6361620B1; CN102071303A; US8871035B2; WO9842882A1; WO2010057913A1; WO9846802A1; WO9841660A1; WO9841659A1; WO9802591A1; WO9802590A1; WO9828453A1; WO9953106A1; WO9848062A1; KR100561144B1

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