

Title (en)

PROCESS FOR PRODUCING CUBE-ON-EDGE ORIENTED ELECTROMAGNETIC SILICON STEEL

Publication

EP 0130674 A3 19850515 (EN)

Application

EP 84302946 A 19840502

Priority

US 51084483 A 19830705

Abstract (en)

[origin: EP0130674A2] A method is provided for producing electromagnetic silicon steel to produce a cube-on-edge grain orientation having lower core losses and higher magnetic permeability. The method includes, during final texture annealing, using a controlled heating cycle including an isothermal hold at a selected recrystallization temperature of about 1650 DEG F (900 DEG C) for 6 to 20 hours to improve secondary recrystallization and the Goss texture (110) [001], then heating the steel from the selected recrystallization temperature to in excess of 2000 DEG F (1093 DEG C).

IPC 1-7

C21D 8/12; **C21D 1/26**

IPC 8 full level

C21D 1/26 (2006.01); **C21D 8/12** (2006.01); **C21D 9/46** (2006.01)

CPC (source: EP)

C21D 1/26 (2013.01); **C21D 8/1272** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

BE DE FR GB IT SE

DOCDB simple family (publication)

EP 0130674 A2 19850109; **EP 0130674 A3 19850515**; CA 1240592 A 19880816; JP H0447010 B2 19920731; JP S6036619 A 19850225

DOCDB simple family (application)

EP 84302946 A 19840502; CA 451247 A 19840404; JP 13705484 A 19840702