

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)  
• [X] FR 2262703 A1 19750926 - KAWASAKI STEEL CO [JP]  
• [X] FR 2357660 A1 19780203 - KAWASAKI STEEL CO [JP]  
• [AD] US 2534141 A 19501212 - WESTON MORRILL, et al  
• [AD] US 4157925 A 19790612 - MALAGARI FRANK A JR [US], et al  
• [AD] FR 2388383 A1 19781117 - NIPPON STEEL CORP [JP]

Cited by  
EP0211486A1

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