

Title (en)

Process for producing cube-on-edge oriented electromagnetic silicon steel.

Title (de)

Verfahren zur Herstellung von kornorientiertem elektromagnetischem Siliciumstahl mit Goss-Textur.

Title (fr)

Procédé pour la fabrication d'acier électromagnétique au silicium à grains orientés cube-sur-arête.

Publication

EP 0130674 A2 19850109 (EN)

Application

EP 84302946 A 19840502

Priority

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Abstract (en)

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).

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