

Title (en)

PROCESS FOR PRODUCING LOW CORE LOSS, THIN, UNIDIRECTIONAL SILICON STEEL PLATE HAVING EXCELLENT SURFACE PROPERTIES.

Title (de)

VERFAHREN ZUR HERSTELLUNG VON DÜNNEN SILIZIUM-STAHLECHEN MIT GOSS-TEXTUR MIT NIEDRIGEN WATTVERLUSTEN SOWIE MIT AUSGEZEICHNETEN OBERFLÄCHENEIGENSCHAFTEN.

Title (fr)

PROCEDE DE PRODUCTION D'UNE MINCE PLAQUE D'ACIER AU SILICIUM UNIDIRECTIONNEL A FAIBLE PERTE DANS LE NOYAU, POSSEDANT D'EXCELLENTE PROPRIETES DE SURFACE.

Publication

EP 0266422 A4 19881102 (EN)

Application

EP 86902022 A 19860325

Priority

JP 8600138 W 19860325

Abstract (en)

[origin: WO8705945A1] A process for consistently producing a low core loss, thin, unidirectional silicon steel plate. The process makes it possible to produce a low core loss, unidirectional silicon steel plate having a thickness of 0.1 to 0.25 mm for use in producing transformers with advantageously avoiding deterioration of surface properties by considering chemical ingredients of steel, optimizing rolling conditions, particularly cold-rolling conditions, and forming allomeric microzones on the surface of a steel plate. The steel plate does not undergo deterioration by stress-relieving annealing.

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IPC 8 full level

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Citation (search report)

- [Y] EP 0108575 A2 19840516 - ARMCO INC [US]
- [A] FR 2268868 A1 19751121 - NIPPON STEEL CORP [JP]
- [A] FR 2472614 A1 19810703 - KAWASAKI STEEL CO [JP]
- [A] GB 1266957 A 19720315
- [Y] PATENT ABSTRACTS OF JAPAN, vol. 10, no. 213 (E-422)[2269], 25th July 1986; & JP-A-61 51 803 (KAWASAKI STEEL CORP.) 14-03-1986
- See references of WO 8705945A1

Cited by

EP0468819A1; WO9802590A1

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