

Title (en)

PROCESS FOR PRODUCING COLD-ROLLED STEEL STRIP HAVING A SI-CONTENT OF AT LEAST 3.2 WT.-% USED FOR ELECTROMAGNETIC PURPOSES

Title (de)

VERFAHREN ZUM HERSTELLEN EINES KALTGEWALZTEN STAHLBANDES MIT EINEM SI-GEHALT VON MINDESTENS 3,2 GEW.-% FÜR ELEKTROMAGNETISCHE ANWENDUNGEN

Title (fr)

PROCEDE DE PRODUCTION DE FEUILLARD D'ACIER LAMINE A FROID AYANT UN TENEUR EN SI D'AU MOINS 3,2% EN POIDS DESTINE A DES UTILISATIONS ELECTROMAGNETIQUES

Publication

**EP 1509627 A1 20050302 (DE)**

Application

**EP 03722586 A 20030502**

Priority

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- EP 0304588 W 20030502

Abstract (en)

[origin: WO03095683A1] The invention relates to a cold-rolled steel strip or sheet metal having a thickness of  $\approx 0.7$  mm and used for electromagnetic purposes. Said strip consists of a steel containing (in wt. %) C:  $< 0.01$  %, Si: 3.2 - 7 %, Al:  $< 2$  %, Mn:  $\leq 1$  %, the remainder being iron and other impurities. After being melted to form a starting product, such as a slab, a thin slab or a thin strip, said product is cast and is then heated to a temperature  $T_R > 1000$  °C, and hot-rolled to form a heated strip at a hot-rolling temperature  $T_F > 800$  °C. Said heated strip is then cooled from a temperature  $T_C$  of at least 750 °C but less than 850 °C to a temperature of less than 300 °C, at a cooling speed  $\Delta T / \Delta t$  of at least 400 °C/min. After cooling, the steel strip is subjected to a surface treatment such as mechanical de-scaling and/or etching. After the surface treatment, the steel strip is cold-rolled at a maximum temperature  $T_{CR}$  of 500 °C and is then annealed.< >

IPC 1-7

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

IPC 8 full level

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Citation (search report)

See references of WO 03095683A1

Cited by

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DOCDB simple family (publication)

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