

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

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Application

EP 03722586 A 20030502

Priority

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Abstract (en)

[origin: WO03095683A1] The invention relates to a cold-rolled steel strip or sheet metal having a thickness of ≈ 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: ≤ 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 $TR > 1000$ °C, and hot-rolled to form a heated strip at a hot-rolling temperature $TF > 800$ °C. Said heated strip is then cooled from a temperature TC 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 TCR of 500 °C and is then annealed.< >

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IPC 8 full level

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CPC (source: EP US)

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