

Title (en)
METHOD FOR MAKING AN ELECTRIC SHEET STEEL WITH ORIENTED GRAINS FOR THE MANUFACTURE OF TRANSFORMER MAGNETIC CIRCUITS IN PARTICULAR

Title (de)
VERFAHREN ZUM HERSTELLEN VON KORNIORIENTIERTEN ELEKTROSTAHLBLECHEN INSBESONDERE FÜR MAGNETKERNE VON TRANSFORMATOREN

Title (fr)
PROCEDE DE FABRICATION D'UNE TOLE D'ACIER ELECTRIQUE A GRAINS ORIENTES POUR LA FABRICATION NOTAMMENT DE CIRCUITS MAGNETIQUES DE TRANSFORMATEURS

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Priority
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Abstract (en)
[origin: WO9842882A1] The invention concerns a method for making an electric sheet steel with oriented grains characterised in that the slab or strip has the following composition: less than 0.1 % carbon, more than 2.5 % silicon, less than 0.006 % sulphur, more than 0.002 % manganese, more than 0.008 % aluminium, more than 0.004 nitrogen, more than 0.02 % copper, less than 0.02 % tin. The method consists in subjecting the above slab to temperature less than 1350 DEG C and hot rolling such that: the percentage by mass of non-precipitated sulphur in the form of coarse particles of average diameter not less than 300 nanometers (nm) is higher than 0.004 %; the percentage by mass of precipitated nitrogen only on the form of fine particles of average diameter less than 100 nm is less than 40 % of the total percentage by mass of nitrogen.

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