

Title (en)

Grain-oriented electrical steel sheet and material having very high magnetic flux density and method of manufacturing same

Title (de)

Kornorientierte Elektrobleche und Material mit sehr hoher magnetischer Flussdichte und Verfahren zur Herstellung dieser

Title (fr)

Tôle d'acier électrique à grains orientés et matériau à haute densité de flux magnétique et procédé pour leur fabrication

Publication

EP 0588342 B1 20000712 (EN)

Application

EP 93114924 A 19930916

Priority

- JP 24819492 A 19920917
- JP 28648692 A 19921023

Abstract (en)

[origin: EP0588342A1] Very high magnetic flux density grain-oriented electrical steel sheet containing 2.5 to 4.0 weight percent silicon as an essential component and having a very high magnetic flux density B₈ of not less than 1.92 tesla, in which by area not less than 80 percent is accounted for by matrix secondary recrystallization grains having a diameter not larger than 100 mm and not smaller than 10 mm in a direction of cold rolling and not larger than 50 mm and not smaller than 5 mm in a direction perpendicular to the cold rolling direction, and in which, moreover, of the grains in said matrix, not fewer than 50 percent are fine secondary recrystallization grains having an average diameter not larger than 5 mm. <IMAGE>

IPC 1-7

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

IPC 8 full level

C21D 8/12 (2006.01); **C22C 38/02** (2006.01); **H01F 1/147** (2006.01)

CPC (source: EP KR)

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Cited by

DE20302583U1; CN103834856A; EP3594373A4; EP0959142A3; EP1411139A4; EP0892072A1; US6110298A; EP0775752A1; US5853499A; EP0716151A1; US5702541A; US5800633A; US2022098697A1; US11959149B2; US11578377B2; US7399369B2; US7981223B2

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