

Title (en)

Method for manufacturing an oriented silicon steel sheet having improved magnetic flux density.

Title (de)

Verfahren zum Herstellen von kernorientierten Siliziumstahlblechen mit verbesserter magnetischer Flussdichte.

Title (fr)

Procédé pour la fabrication de tôles d'acier au silicium à grains orientés et à densité de flux magnétique améliorée.

Publication

EP 0468819 A1 19920129 (EN)

Application

EP 91306880 A 19910726

Priority

JP 19782290 A 19900727

Abstract (en)

A method of manufacturing an oriented silicon steel sheet which achieves a high magnetic flux density while reducing the core loss. A silicon steel sheet containing Al and Sb as inhibitor components is cold-rolled once or a plurality of times. During cooling for annealing before final cold-rolling, a small strain is created on the sheet and the temperature is within a certain range. Carbide precipitation is suitably controlled to precipitate carbides comparatively coarsely in grains.

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IPC 8 full level

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CPC (source: EP)

C21D 8/125 (2013.01); **C21D 8/1227** (2013.01); **C21D 8/1261** (2013.01); **C21D 8/1266** (2013.01)

Citation (search report)

- [A] EP 0266422 A1 19880511 - KAWASAKI STEEL CO [JP]
- [AD] EP 0089195 A1 19830921 - KAWASAKI STEEL CO [JP]
- [AD] PATENT ABSTRACTS OF JAPAN, vol. 10, no. 350 (C-387)[2406], 26th November 1986; & JP-A-61 149 432 (KAWASAKI STEEL) 08-07-1986

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CN102382963A; EP0475710A3; EP2891728A4; EP0767249A3; US5902419A; US6045627A; US6241829B1

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