

Title (en)

Grain-oriented silicon steel sheet and process for producing the same.

Title (de)

Kornorientiertes Siliciumstahlblech und Verfahren zu dessen Herstellung.

Title (fr)

Tôle d'acier au silicium à grains orientés et son procédé de fabrication.

Publication

**EP 0184891 A1 19860618 (EN)**

Application

**EP 85301496 A 19850305**

Priority

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Abstract (en)

Extremely low watt-loss of W17/50  $\leq$  0.88 w/kg is provided by the combination of extremely low carbon, silicon and nitrogen contents; a thin sheet thickness of 0.15 to 0.23 mm; a high magnetic flux density B10  $\leq$  1.89 T; and copresence of coarse and fine (2 mm or less) grains, the distance (ND) between the fine grains controlled to 2.0 to 8.0 mm.

IPC 1-7

**C21D 8/12**; **H01F 1/16**

IPC 8 full level

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

CPC (source: EP)

**C21D 8/1233** (2013.01); **C21D 8/1266** (2013.01); **H01F 1/14775** (2013.01)

Citation (search report)

- [AD] EP 0047129 B1 19850424
- [A] EP 0101321 B1 19901205
- [A] FR 2511045 A1 19830211 - NIPPON STEEL CORP [JP]

Cited by

EP0959142A3; US6039818A; EP0837149A3; US6083326A; EP0837148A3; US5667598A; EP0798392A1; EP0333221A3; US4992114A; EP0234443A3; EP0716151A1; US5702541A; US5800633A; US6331215B1; US6444050B1; US6929704B2; EP0438592B1

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