

Title (en)

MANUFACTURING METHOD FOR GRAIN-ORIENTED ELECTROMAGNETIC STEEL SHEET

Title (de)

HERSTELLUNGSVERFAHREN FÜR EIN KORNIORIENTIERTES ELEKTROMAGNETISCHES STAHLBLECH

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE FEUILLE EN ACIER ÉLECTROMAGNÉTIQUE À GRAINS ORIENTÉS

Publication

EP 2537947 A4 20170726 (EN)

Application

EP 11744742 A 20110218

Priority

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- JP 2011053491 W 20110218

Abstract (en)

[origin: EP2537947A1] Hot rolling is performed on a steel with a predetermined composition containing Ti: 0.0020 mass% to 0.010 mass% and/or Cu: 0.010 mass% to 0.50 mass% to obtain a hot-rolled steel sheet. Annealing is performed on the hot-rolled steel sheet to obtain an annealed steel sheet. Cold rolling is performed on the annealed steel sheet to obtain a cold-rolled steel sheet. Decarburization annealing is performed on the cold-rolled steel sheet at a temperature of 800°C to 950°C to obtain a decarburization annealed steel sheet. Then, nitridation treatment is performed on the decarburization annealed steel sheet at 700°C to 850°C to obtain a nitrided steel sheet. Finish annealing is performed on the nitrided steel sheet.

IPC 8 full level

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CPC (source: EP KR US)

C21D 3/04 (2013.01 - EP KR US); **C21D 8/12** (2013.01 - EP KR US); **C21D 8/1255** (2013.01 - EP KR US); **C21D 8/1272** (2013.01 - EP KR US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/14** (2013.01 - EP KR US); **C22C 38/16** (2013.01 - EP KR US); **C22C 38/34** (2013.01 - EP KR US); **C23C 8/02** (2013.01 - EP KR US); **C23C 8/80** (2013.01 - EP KR US); **H01F 1/16** (2013.01 - EP US)

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Designated contracting state (EPC)

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