

Title (en)

Precipitation-hardened soft magnetic ferritic stainless steel

Title (de)

Ausscheidungsgehärteter weichmagnetischer rostfreier ferritischer Stahl

Title (fr)

Acier ferritique inoxydable magnétique doux à durcissement par précipitation

Publication

**EP 1357199 B1 20051214 (EN)**

Application

**EP 02256007 A 20020829**

Priority

JP 2002111568 A 20020415

Abstract (en)

[origin: EP1357199A1] A precipitation-hardened soft magnetic ferritic stainless steel comprises C: not more than 0.2 mass%, Si: 0.01-3.0 mass%, Mn: not more than 0.5 mass%, S: not more than 0.3 mass%, Cr: 12.0-19.0 mass%, Ni: 1.0-4.0 mass% and Al: 0.2-4.0 mass% and further contains at least one of Ti: less than 0.5 mass% and Zr: less than 0.3 mass% and the remainder being inevitable impurities and Fe, and has substantially a microstructure of a ferrite phase after a solution treatment and an aging treatment.

IPC 1-7

**C22C 38/28**; **C22C 38/40**

IPC 8 full level

**C22C 38/00** (2006.01); **C22C 38/06** (2006.01); **C22C 38/34** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); **C22C 38/60** (2006.01); **C21D 6/02** (2006.01); **C21D 8/00** (2006.01)

CPC (source: EP US)

**C22C 38/06** (2013.01 - EP US); **C22C 38/34** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/60** (2013.01 - EP US); **C21D 6/02** (2013.01 - EP US); **C21D 8/005** (2013.01 - EP US); **C21D 221/005** (2013.01 - EP US)

Cited by

EP3477395A4; CN109716239A

Designated contracting state (EPC)

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DOCDB simple family (publication)

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