

Title (en)

SOFT MAGNETIC ALLOY AND METHOD FOR PRODUCING A SOFT MAGNETIC ALLOY

Title (de)

WEICHMAGNETISCHE LEGIERUNG UND VERFAHREN ZUM HERSTELLEN EINER WEICHMAGNETISCHEN LEGIERUNG

Title (fr)

ALLIAGE MAGNÉTIQUE DOUX ET PROCÉDÉ DE FABRICATION D'UN ALLIAGE MAGNÉTIQUE DOUX

Publication

**EP 4027358 B1 20230927 (DE)**

Application

**EP 21215751 A 20211217**

Priority

DE 102020134301 A 20201218

Abstract (en)

[origin: US2022195568A1] A soft magnetic alloy comprising 2 wt %≤Co≤30 wt %, 0.3 wt %≤V≤5.0 wt % and iron is provided. The soft magnetic alloy has a area proportion of a {111}<uvw> texture of no more than 13%, preferably no more than 6%, including grains with a tilt of up to +/−10°, or preferably of up to +/−15°, when compared to the nominal crystal orientation.

IPC 8 full level

**H01F 1/18** (2006.01); **C21D 8/12** (2006.01); **C22C 19/07** (2006.01); **C22C 38/12** (2006.01)

CPC (source: EP US)

**C21D 8/1222** (2013.01 - EP); **C21D 8/1233** (2013.01 - EP); **C21D 8/1272** (2013.01 - EP US); **C21D 8/1283** (2013.01 - EP US); **C22C 30/00** (2013.01 - EP); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP); **C22C 38/06** (2013.01 - EP); **C22C 38/10** (2013.01 - EP US); **C22C 38/105** (2013.01 - EP); **C22C 38/12** (2013.01 - EP US); **C22C 38/18** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP); **C22C 38/30** (2013.01 - EP); **C22C 38/34** (2013.01 - EP); **C22C 38/38** (2013.01 - EP); **C23C 28/04** (2013.01 - EP); **C23C 28/042** (2013.01 - EP US); **H01F 1/18** (2013.01 - EP); **C21D 2201/05** (2013.01 - US); **C22C 2202/02** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 4027358 A1 20220713**; **EP 4027358 B1 20230927**; DE 102020134301 A1 20220623; US 2022195568 A1 20220623

DOCDB simple family (application)

**EP 21215751 A 20211217**; DE 102020134301 A 20201218; US 202117554239 A 20211217