

## Title (en)

PROCESS FOR MANUFACTURING A THIN STRIP MADE OF SOFT MAGNETIC ALLOY

## Title (de)

VERFAHREN ZUR HERSTELLUNG EINES DÜNNEN BANDES AUS EINER WEICHMAGNETISCHEN LEGIERUNG

## Title (fr)

PROCEDE DE FABRICATION D'UNE BANDE MINCE EN ALLIAGE MAGNETIQUE DOUX

## Publication

**EP 2791377 B1 20180711 (FR)**

## Application

**EP 12801754 A 20121217**

## Priority

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## Abstract (en)

[origin: WO2013087939A1] Process for manufacturing a strip made of soft magnetic alloy capable of being cut mechanically, the chemical composition of which comprises, by weight: 18% <= Co <= 55%; 0% <= V + W <= 3%; 0% <= Cr <= 3%; 0% <= Si <= 3%; 0% <= Nb <= 0.5%; 0% <= B <= 0.05%; 0% <= C <= 0.1%; 0% <= Zr + Ta <= 0.5%; 0% <= Ni <= 5%; 0% <= Mn <= 2%, the remainder being iron and impurities resulting from this melting, according to which a strip obtained by hot rolling is cold rolled in order to obtain a cold-rolled strip having a thickness of less than 0.6 mm. After the cold rolling, a continuous annealing treatment is carried out by passing through a continuous furnace, at a temperature between the order/disorder transition temperature of the alloy and the ferritic/austenitic transformation start temperature of the alloy, followed by a rapid cooling to a temperature below 200°C. Strip obtained.

## IPC 8 full level

**C22C 19/07** (2006.01); **C21D 6/00** (2006.01); **C21D 8/12** (2006.01); **C22C 30/00** (2006.01); **C22C 38/10** (2006.01); **C22C 38/12** (2006.01); **C22F 1/10** (2006.01); **C22F 1/16** (2006.01); **H01F 1/147** (2006.01)

## CPC (source: EP RU US)

**A63B 21/4017** (2015.10 - EP US); **A63B 23/14** (2013.01 - EP US); **C21D 6/007** (2013.01 - EP RU US); **C21D 8/12** (2013.01 - EP RU US); **C21D 8/1233** (2013.01 - EP US); **C21D 8/1261** (2013.01 - EP RU US); **C22C 19/07** (2013.01 - EP RU US); **C22C 30/00** (2013.01 - EP RU US); **C22C 38/004** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/10** (2013.01 - EP US); **C22C 38/105** (2013.01 - EP US); **C22C 38/12** (2013.01 - EP RU US); **C22C 38/16** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US); **C22F 1/10** (2013.01 - EP US); **C22F 1/16** (2013.01 - EP RU US); **H01F 1/147** (2013.01 - RU US); **H01F 1/16** (2013.01 - EP US); **H01F 41/02** (2013.01 - RU US); **A63B 2208/12** (2013.01 - EP US); **Y10T 29/49009** (2015.01 - EP US); **Y10T 29/49826** (2015.01 - EP US)

## Citation (opposition)

Opponent : Vacuumschmelze GmbH & Co KG.

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## DOCDB simple family (application)

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