

Title (en)

METHOD FOR PRODUCING A STRIP OF A CO-FE ALLOY, STRIP OF A CO-FE ALLOY AND SHEET METAL STACK

Title (de)

VERFAHREN ZUM HERSTELLEN EINES BANDES AUS EINER CO-FE-LEGIERUNG, BAND AUS EINER CO-FE-LEGIERUNG UND BLECHPAKET

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE BANDE EN ALLIAGE CO-FE, BANDE EN ALLIAGE CO-FE ET PAQUET DE TÔLES

Publication

**EP 3541969 B1 20230628 (DE)**

Application

**EP 17811215 A 20171117**

Priority

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Abstract (en)

[origin: WO2018091694A1] The invention relates, in one embodiment, to a semi-finished product, which comprises at least one metal strip consisting substantially of 35 wt% ≤ Co ≤ 55 wt%, 0 wt% ≤ V ≤ 3 wt%, 0 wt% ≤ Ni ≤ 2 wt%, 0 wt% ≤ Nb ≤ 0.50 wt%, 0 wt% ≤ Zr + Ta ≤ 1.5 wt%, 0 wt% ≤ Cr ≤ 3 wt%, 0 wt% ≤ Si ≤ 3 wt%, 0 wt% ≤ Al ≤ 1 wt%, 0 wt% ≤ Mn ≤ 1 wt%, 0 wt% ≤ B ≤ 0.25 wt%, 0 wt% ≤ C ≤ 0.1 wt%, remainder Fe and up to 1 wt% of impurities, wherein the impurities can have one or more of the group O, N, S, P, Ce, Ti, Mg, Be, Cu, Mo and W. The strip has a thickness d, wherein 0.05 mm ≤ d ≤ 0.5 mm, a Vickers hardness of greater than 300, an elongation at break of less than 5% and, after a heat treatment of the strip at a temperature between 700 °C and 900 °C, a permanent growth dl/l0 of less than 0.08%, preferably 0.06%, in the longitudinal direction of the strip and/or of less than 0.08%, preferably 0.06%, in the transverse direction of the strip.

IPC 8 full level

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CPC (source: EP US)

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