

Title (en)

METHOD FOR PRODUCING A SOFT-MAGNETIC BODY

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WEICHMAGNETISCHEN KÖRPERS

Title (fr)

PROCÉDÉ POUR LA FABRICATION D'UN CORPS MAGNÉTIQUE DOUX

Publication

**EP 3280558 A1 20180214 (DE)**

Application

**EP 16715832 A 20160406**

Priority

- DE 102015105431 A 20150409
- EP 2016057539 W 20160406

Abstract (en)

[origin: WO2016162383A1] The invention relates to a method (100) for producing a soft-magnetic body (10), comprising the following steps: a) providing a soft-magnetic powder (20) with powder particles (21) that consist of a soft-magnetic material (22), b) coating the powder particles (21) with an insulating coating material (31), the sintering temperature of the coating material (31) being lower than the sintering temperature of the soft-magnetic material (22), and c) heat-treating the coating material (31) in such a way that during the heat treatment a sintering and/or melting of the powder particles (21) is avoided.

IPC 8 full level

**B22F 1/08** (2022.01); **B22F 1/142** (2022.01); **B22F 1/16** (2022.01); **B22F 3/02** (2006.01); **H01F 1/33** (2006.01); **H01F 3/08** (2006.01); **H01F 27/255** (2006.01); **H01F 41/02** (2006.01)

CPC (source: CN EP US)

**B22F 1/08** (2022.01 - CN EP US); **B22F 1/142** (2022.01 - CN EP US); **B22F 1/16** (2022.01 - CN EP US); **B22F 3/02** (2013.01 - CN); **B22F 3/10** (2013.01 - CN); **H01F 1/33** (2013.01 - CN EP US); **H01F 3/08** (2013.01 - CN EP); **H01F 27/255** (2013.01 - CN); **H01F 41/0246** (2013.01 - CN EP); **B22F 2203/11** (2013.01 - CN); **B22F 2998/10** (2013.01 - CN EP); **B22F 2999/00** (2013.01 - CN EP); **C22C 2202/02** (2013.01 - CN EP)

Citation (search report)

See references of WO 2016162383A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102015105431 A1 20161013**; CN 107396630 A 20171124; CN 107396630 B 20200911; EP 3280558 A1 20180214; EP 3280558 B1 20201104; WO 2016162383 A1 20161013

DOCDB simple family (application)

**DE 102015105431 A 20150409**; CN 201680020737 A 20160406; EP 16715832 A 20160406; EP 2016057539 W 20160406