

Title (en)

POWDER AND METHOD FOR PRODUCING THE SAME

Title (de)

PULVER UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

POUDRE ET SON PROCÉDÉ DE PRODUCTION

Publication

EP 2226142 A4 20170412 (EN)

Application

EP 08860500 A 20081119

Priority

- JP 2008071031 W 20081119
- JP 2007318251 A 20071210

Abstract (en)

[origin: EP2226142A1] The powder of the invention comprises metal powder, an apatite layer covering the metal powder and silica particles attached to the metal powder or apatite layer. The powder of the invention allows annealing to be carried out at high temperature without destruction of the insulating layer during production of powder magnetic cores. The insulating property of the insulating layer is therefore maintained, and a powder magnetic core with sufficiently high magnetic permeability can be obtained.

IPC 8 full level

B22F 1/02 (2006.01); **B22F 1/16** (2022.01); **H01F 1/24** (2006.01); **B22F 1/08** (2022.01)

CPC (source: EP US)

B22F 1/16 (2022.01 - EP US); **H01F 1/24** (2013.01 - EP US); **B22F 1/08** (2022.01 - EP US)

Citation (search report)

- [Y] EP 0406580 A1 19910109 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [YD] JP H09180924 A 19970711 - KOBE STEEL LTD
- [A] BALASUNDARAM G ET AL: "Applications of magnetic nanoparticles for the treatment of osteoporosis", ENGINEERED NANOSCALE MATERIALS FOR THE DIAGNOSIS AND TREATMENT OF DISEASE : APRIL 9 - 13, 2007, SAN FRANCISCO, CALIFORNIA, USA; [MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS ; 1019], RED HOOK, NY : CURRAN, US, vol. 1019, 9 April 2007 (2007-04-09), pages FF02 - FF06, XP002564515, ISBN: 978-1-60560-426-8
- See references of WO 2009075173A1

Cited by

US2015022308A1; US2013057371A1; US11915847B2; EP2682960A4; US2013015939A1; US9646756B2; US9978490B2; WO2021096878A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 2226142 A1 20100908; EP 2226142 A4 20170412; CA 2708830 A1 20090618; CA 2708830 C 20130122; CN 101896300 A 20101124; CN 101896300 B 20120822; CN 102717069 A 20121010; CN 102717069 B 20141217; JP 5321469 B2 20131023; JP WO2009075173 A1 20110428; TW 200932404 A 20090801; TW I433741 B 20140411; WO 2009075173 A1 20090618

DOCDB simple family (application)

EP 08860500 A 20081119; CA 2708830 A 20081119; CN 200880119924 A 20081119; CN 201210225600 A 20081119; JP 2008071031 W 20081119; JP 2009545377 A 20081119; TW 97145543 A 20081125