

Title (en)

METHOD FOR PRODUCING A WEAKLY MAGNETIC COMPOSITE MATERIAL FROM A MOULDABLE MATERIAL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WEICHMAGNETISCHEN VERBUNDWERKSTOFFES MIT EINER PRESSMASSE

Title (fr)

PROCEDE DE PRODUCTION D'UN MATERIAU COMPOSITE MAGNETIQUE DOUX A L'AIDE D'UNE MATIERE A MOULER

Publication

EP 1131831 B1 20101110 (DE)

Application

EP 00963959 A 20000906

Priority

- DE 0003054 W 20000906
- DE 19945619 A 19990923

Abstract (en)

[origin: WO0122448A1] The invention relates to a mouldable material, in particular for production of a weakly magnetic composite material, comprising a starting material in powder form exhibiting weakly magnetic properties, a thermoplastic compound and a lubricating agent. The lubricating agent is, in particular, stearic acid. The invention further relates to the application of said mouldable material for production of a weakly magnetic composite material by means of the following steps: compressing the mouldable material at a temperature below the melting point of the thermoplastic compound, a first thermal treatment step of the compressed material below the melting point of the thermoplastic compound and a second thermal treatment step above the melting point of the thermoplastic compound. Said weakly magnetic composite material is particularly suitable for the production of weakly magnetic components for rapid actuators and controllers which are thermal moulding, corrosion and fuel resistant.

IPC 8 full level

B22F 3/02 (2006.01); **H01F 41/02** (2006.01); **B22F 1/02** (2006.01); **C08J 5/16** (2006.01); **H01F 1/26** (2006.01)

CPC (source: EP US)

H01F 1/26 (2013.01 - EP US); **H01F 41/0246** (2013.01 - EP US)

Citation (examination)

- DE 19735271 A1 19990225 - BOSCH GMBH ROBERT [DE]
- METALEST: "M-301 ESTEARATO DE ZINC", INTERNET CITATION, 1 June 2004 (2004-06-01), XP007910083, Retrieved from the Internet <URL:http://www.metalest.es/cont/hojastecnicas/01050.htm> [retrieved on 20091008]
- METALEST: "M-305 ESTEARATO DE ZINC", INTERNET CITATION, 1 October 1999 (1999-10-01), XP007910084, Retrieved from the Internet <URL:http://www.metalest.es/cont/hojastecnicas/02050.htm> [retrieved on 20091008]
- ESPI: "High Purity Metal Specialists Powder Particle Size", INTERNET CITATION, 8 May 2004 (2004-05-08), XP007910085, Retrieved from the Internet <URL:http://www.espi-metals.com/tech/mesh.htm> [retrieved on 20091008]

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0122448 A1 20010329; CN 1322366 A 20011114; DE 19945619 A1 20010419; DE 50016026 D1 20101223; EP 1131831 A1 20010912; EP 1131831 B1 20101110; JP 2003510460 A 20030318; JP 4933711 B2 20120516; US 6706206 B1 20040316

DOCDB simple family (application)

DE 0003054 W 20000906; CN 00802030 A 20000906; DE 19945619 A 19990923; DE 50016026 T 20000906; EP 00963959 A 20000906; JP 2001525727 A 20000906; US 85676301 A 20010907