Title (en)

Magnetically active material

Title (de)

Magnetisch wirksamer Werkstoff

Title (fr)

Matériau magnétiquement actif

Publication

EP 2521143 A1 20121107 (DE)

Application

EP 12002333 A 20120330

Priority

DE 102011100805 A 20110506

Abstract (en)

The material has magnetically effective partial components (10a) that are cellularly formed and provided with pore structures (12a). The pore structures are partially opened and/or closed, and exhibit an effect with hard magnetic or soft-magnetic characteristics. The pore structures are mechanically and/or thermally treated to realize texturing, and the partial components are designed in a self-supporting manner. The partial components absorb electromagnetic vibrations, and filling mediums e.g. oil or oily liquid, are provided within the pore structures. An independent claim is also included for a system comprising an electric motor.

Abstract (de)

Die Erfindung geht aus von einem magnetisch wirksamen Werkstoff, insbesondere für elektrotechnische, magnetische und/oder elektronische Anwendungen. Es wird vorgeschlagen, dass der Werkstoff zumindest eine magnetisch wirksame Teilkomponente (10a-c) aufweist, die zellular ausgebildet ist und die eine Porenstruktur (12a-c) aufweist.

IPC 8 full level

H01F 1/147 (2006.01); **H01F 27/36** (2006.01); **H01Q 17/00** (2006.01); **H05K 9/00** (2006.01)

CPC (source: EP US)

H01F 1/14708 (2013.01 - EP); **H01F 27/36** (2013.01 - EP); **H01F 27/366** (2020.08 - EP US); **H01Q 17/00** (2013.01 - EP)

Citation (search report)

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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)

EP 2521143 A1 20121107; **EP 2521143 B1 20150603**; **EP 2521143 B8 20150722**; DE 102011100805 A1 20121108; ES 2546494 T3 20150924

DOCDB simple family (application)

EP 12002333 A 20120330; DE 102011100805 A 20110506; ES 12002333 T 20120330