

Title (en)
MAGNETIC CONSTRUCTION PANEL AND ITS METHOD OF MANUFACTURE

Title (de)
MAGNETISCHE BAUPLATTE UND IHR HERSTELLUNGSVERFAHREN

Title (fr)
PANNEAU DE CONSTRUCTION MAGNÉTIQUE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 4328398 A1 20240228 (EN)

Application
EP 23157310 A 20230217

Priority
• US 202217893138 A 20220822
• US 202318110507 A 20230216

Abstract (en)
A construction magnetic panel (10) is provided having a flexible base (12) formed with front and internal sides and including magnetic particles (18) placed within the body of the panel. The magnetic particles are operated within a working temperature range between -60 and +120 °C, whereby the magnetic particles are characterized by the maximum energy product (BH)_{max} within the range between 2,0 and 100,00 kJ/m³ and are capable of magnetic interaction with external magnetically susceptible materials.

IPC 8 full level
E04F 13/08 (2006.01); **H01F 1/00** (2006.01); **H01F 41/16** (2006.01)

CPC (source: EP)
E04F 13/0883 (2013.01); **H01F 1/28** (2013.01); **E04F 2201/06** (2013.01)

Citation (applicant)
• RU 54338 U1 20060627
• RU 2385391 C2 20100327 - LG CHEMICAL LTD [KR]
• RU 110115 U1 20111110
• US 2018056627 A1 20180301 - IMMORDINO JR SALVATORE C [US], et al

Citation (search report)
• [X] US 2008245008 A1 20081009 - YU GANG [CN], et al
• [Y] US 2008202053 A1 20080828 - GUY JEAN-PAUL [CA], et al
• [Y] US 5927033 A 19990727 - KRECKL HELMUT [DE]
• [Y] DE 202015002306 U1 20150601 - CHAMLALI KARIM [DE]
• [Y] WO 2019056403 A1 20190328 - GUANGXI PHOMI NEW MAT COMPANY [CN]
• [Y] JP 2004098296 A 20040402 - AICA KOGYO CO LTD
• [Y] WO 2016160739 A2 20161006 - GOLCONDA HOLDINGS LLC [US]
• [Y] WO 2018087517 A1 20180517 - RICHARD SIGNS LTD [GB]
• [Y] DE JULIÁN FERNÁNDEZ C ET AL: "Progress and prospects of hard hexaferrites for permanent magnet applications", JOURNAL OF PHYSICS D: APPLIED PHYSICS, INSTITUTE OF PHYSICS PUBLISHING, BRISTOL, GB, vol. 54, no. 15, 28 January 2021 (2021-01-28), pages 153001, XP020365650, ISSN: 0022-3727, [retrieved on 20210128], DOI: 10.1088/1361-6463/ABD272

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4328398 A1 20240228

DOCDB simple family (application)
EP 23157310 A 20230217