



(11) **EP 4 075 435 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(51) International Patent Classification (IPC):
G11C 11/16 (2006.01) **G11C 29/02** (2006.01)
G11C 29/50 (2006.01) **G01R 33/09** (2006.01)
G01R 33/12 (2006.01) **H01F 10/32** (2006.01)

(48) Corrigendum issued on:
10.04.2024 Bulletin 2024/15

(52) Cooperative Patent Classification (CPC):
G11C 11/161; G01R 33/093; G01R 33/098;
G01R 33/1207; G11C 29/028; G11C 29/50008;
H01F 10/3218; G11C 2029/0403; G11C 2029/5002;
H01F 10/3254; H10B 61/00

(45) Date of publication and mention
of the grant of the patent:
06.03.2024 Bulletin 2024/10

(21) Application number: **21315065.9**

(22) Date of filing: **13.04.2021**

(54) **METHOD TO CALCULATE PERFORMANCE OF A MAGNETIC ELEMENT COMPRISING A FERROMAGNETIC LAYER EXCHANGE-COUPLED TO AN ANTIFERROMAGNETIC LAYER**

VERFAHREN ZUR BERECHNUNG DER LEISTUNG EINES MAGNETISCHEN ELEMENTES MIT EINER FERROMAGNETISCHEN SCHICHT, DIE MIT EINER ANTIFERROMAGNETISCHEN SCHICHT AUSTAUSCHGEKOPPELT IST

PROCÉDÉ DE CALCUL DES PERFORMANCES D'UN ÉLÉMENT MAGNÉTIQUE COMPRENANT UNE COUCHE FERROMAGNÉTIQUE COUPLÉE PAR ÉCHANGE À UNE COUCHE ANTIFERROMAGNÉTIQUE

(84) Designated Contracting States:
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

(74) Representative: **P&TS SA (AG, Ltd.)**
Avenue J.-J. Rousseau 4
P.O. Box 2848
2001 Neuchâtel (CH)

(43) Date of publication of application:
19.10.2022 Bulletin 2022/42

(56) References cited:
US-A1- 2014 334 032

(73) Proprietor: **Allegro MicroSystems, LLC**
Manchester, NH 03103 (US)

• **OGRADYK ET AL: "A new paradigm for exchange bias in polycrystalline thin films", JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, ELSEVIER, AMSTERDAM, NL, vol. 322, no. 8, 1 April 2010 (2010-04-01), pages 883-899, XP026882925, ISSN: 0304-8853, DOI: 10.1016/J.JMMM.2009.12.011 [retrieved on 2009-12-16]**

(72) Inventors:
• **STRELKOV, Nikita**
38240 Meylan (FR)
• **TIMOPHEEV, Andrey**
38450 Vif (FR)
• **CHILDRESS, Jeffrey**
San Jose, CA 95138 (US)

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 4 075 435 B8