

Title (en)
MAGNESIUM-CONTAINING METAL MATERIAL PROVIDED WITH COATING

Title (de)
MAGNESIUMHALTIGES METALLMATERIAL MIT BESCHICHTUNG

Title (fr)
MATÉRIAU MÉTALLIQUE À TENEUR EN MAGNÉSIUM AVEC FILM DE REVÊTEMENT

Publication
EP 3643811 A4 20210331 (EN)

Application
EP 18820043 A 20180620

Priority
• JP 2017122643 A 20170622
• JP 2018023448 W 20180620

Abstract (en)
[origin: EP3643811A1] Provided is a magnesium-containing metal material that includes coatings having excellent corrosion resistance on a surface. Specifically, provided is a magnesium-containing metal material with coating, which is characterized by including: a magnesium hydroxide-containing first coating on a surface of a magnesium-containing metal material composed of magnesium or a magnesium alloy; a hydroxyapatite and/or hydroxyapatite carbonate-containing third coating over the first coating; and a dibasic calcium phosphate-containing second coating between the first coating and the third coating.

IPC 8 full level
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C23C 22/83 (2013.01 - CN EP KR); **C23C 28/04** (2013.01 - EP KR US); **C23C 28/046** (2013.01 - EP); **C23C 28/048** (2013.01 - CN)

Citation (search report)
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• [I] JP 2010057590 A 20100318 - OLYMPUS CORP
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• [A] JP 2002121681 A 20020426 - KIWA KAGAKU YAKUHIIN KK
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• [A] LIPING XU ET AL: "Phosphating treatment and corrosion properties of Mg-Mn-Zn alloy for biomedical application", JOURNAL OF MATERIALS SCIENCE: MATERIALS IN MEDICINE, KLUWER ACADEMIC PUBLISHERS, BO, vol. 20, no. 4, 26 November 2008 (2008-11-26), pages 859 - 867, XP019680191, ISSN: 1573-4838
• See also references of WO 2018235863A1

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