

Title (en)  
ELECTROCERAMIC COATING FOR MAGNESIUM ALLOYS

Title (de)  
ELEKTROKERAMISCHE BESCHICHTUNG FÜR MAGNESIUMLEGIERUNGEN

Title (fr)  
REVÊTEMENT ÉLECTROCÉRAMIQUE POUR ALLIAGES DE MAGNÉSIUM

Publication  
**EP 3169831 A4 20180207 (EN)**

Application  
**EP 14897821 A 20140717**

Priority  
US 2014047026 W 20140717

Abstract (en)  
[origin: WO2016010541A1] This invention relates to articles having magnesium-containing metal surfaces with an electroceramic coating chemically bonded to the metal surfaces and to articles having a composite coating comprising first sectors of electroceramic coating and second sectors comprising organic and/or inorganic components different from the electroceramic coating. The invention further relates to processes of making and using the articles.

IPC 8 full level  
**C25D 11/30** (2006.01); **C25D 11/02** (2006.01)

CPC (source: EP KR US)  
**C25D 11/022** (2013.01 - KR); **C25D 11/024** (2013.01 - EP KR US); **C25D 11/30** (2013.01 - EP KR US); **C25D 11/026** (2013.01 - EP KR US)

Citation (search report)

- [XAI] US 4976830 A 19901211 - SCHMELING EDITH L [DE], et al
- [X] JP S63100195 A 19880502 - UBE INDUSTRIES
- [XAI] C. S. LIN ET AL: "Characterization of Anodic Films on AZ31 Magnesium Alloys in Alkaline Solutions Containing Fluoride and Phosphate Anions", JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol. 153, no. 10, January 2006 (2006-01-01), US, pages B417, XP055437428, ISSN: 0013-4651, DOI: 10.1149/1.2257987
- [AD] YANG ET AL: "Study of vanadium-based chemical conversion coating on the corrosion resistance of magnesium alloy", MATERIALS CHEMISTRY AND PHY, ELSEVIER SA, SWITZERLAND, TAIWAN, REPUBLIC OF CHINA, vol. 101, no. 2-3, 26 January 2007 (2007-01-26), pages 480 - 485, XP005737798, ISSN: 0254-0584, DOI: 10.1016/J.MATCHEMPHYS.2006.08.007
- See references of WO 2016010541A1

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

DOCDB simple family (publication)  
**WO 2016010541 A1 20160121**; CA 2955317 A1 20160121; CN 106715762 A 20170524; CN 106715762 B 20190712; EP 3169831 A1 20170524; EP 3169831 A4 20180207; JP 2017520684 A 20170727; JP 6513180 B2 20190515; KR 20170029545 A 20170315; MX 2017000559 A 20170427; TW 201619449 A 20160601; US 2017121841 A1 20170504

DOCDB simple family (application)  
**US 2014047026 W 20140717**; CA 2955317 A 20140717; CN 201480081973 A 20140717; EP 14897821 A 20140717; JP 2017502676 A 20140717; KR 20177002941 A 20140717; MX 2017000559 A 20140717; TW 104122814 A 20150714; US 201715405774 A 20170113