

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

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DOCDB simple family (publication)

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