

Title (en)

ALKALINE CONVERSION TREATMENT COMPOSITION FOR MAGNESIUM AND MAGNESIUM ALLOY, AND METHOD FOR PERFORMING SURFACE TREATMENT ON MAGNESIUM AND MAGNESIUM ALLOY MATERIAL BY USING SAME

Title (de)

ALKALIUMWANDLUNGSBEHANDLUNGZUSAMMENSETZUNG ZUR FÜR MAGNESIUM UND MAGNESIUMLEGIERUNG UND VERFAHREN ZUR DURCHFÜHRUNG EINER OBERFLÄCHENBEHANDLUNG VON MAGNESIUM UND MAGNESIUMLEGIERUNGSMATERIAL DAMIT

Title (fr)

COMPOSITION ALCALINE DE TRAITEMENT DE CONVERSION POUR DU MAGNÉSIUM ET DE L'ALLIAGE DE MAGNÉSIUM ET PROCÉDÉ POUR LA MISE EN UVRE D'UN TRAITEMENT DE SURFACE SUR DU MAGNÉSIUM ET DU MATÉRIAU EN ALLIAGE DE MAGNÉSIUM À L'AIDE DE CETTE DERNIÈRE

Publication

EP 3415659 B1 20220323 (EN)

Application

EP 17750406 A 20170202

Priority

- KR 20160015698 A 20160211
- KR 2017001129 W 20170202

Abstract (en)

[origin: EP3415659A1] An alkali conversion treatment composition for magnesium and magnesium alloy may include 2 to 10% by weight of a phosphoric acid compound, 1 to 5% by weight of an inorganic metal sol, 0.03 to 0.3% by weight of a vanadium compound, 0.5 to 5% by weight of a basic compound, 0.01 to 0.1% of an acrylic resin and a remainder of water soluble solvent. The composition may form a uniform and dense chemical conversion coating on a surface of magnesium or magnesium alloy material, and may provide excellent corrosion resistance, topcoat painting adhesion and water resistance, and may not cause defects on a surface of the topcoat painting.

IPC 8 full level

C23C 22/60 (2006.01); **C23C 22/73** (2006.01); **C23C 22/44** (2006.01); **C23F 1/22** (2006.01); **C23G 1/22** (2006.01)

CPC (source: EP)

C23C 22/60 (2013.01); **C23C 22/73** (2013.01); **C23C 22/44** (2013.01); **C23F 1/22** (2013.01); **C23G 1/22** (2013.01)

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)

EP 3415659 A1 20181219; **EP 3415659 A4 20191023**; **EP 3415659 B1 20220323**; KR 101751453 B1 20170711; WO 2017138714 A1 20170817

DOCDB simple family (application)

EP 17750406 A 20170202; KR 20160015698 A 20160211; KR 2017001129 W 20170202