

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 A4 20191023 (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 22/78** (2006.01); **C23F 1/14** (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)

Citation (search report)
• [I] KR 20140106938 A 20140904 - NOROO COIL COATINGS CO LTD [KR]
• [I] KR 20150102208 A 20150907 - NOROO COIL COATINGS CO LTD [KR]
• [A] JP 5647326 B1 20141224
• [A] WO 0175190 A1 20011011 - HENKEL CORP [US], et al
• [A] EP 2944797 A1 20151118 - DELPHI INT OPERATIONS LUX SRL [LU]
• See references of WO 2017138714A1

Designated contracting state (EPC)
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