

Title (en)

METHOD FOR INCREASING THE CORROSION RESISTANCE OF A COMPONENT FORMED OF A MAGNESIUM-BASED ALLOY AGAINST GALVANIC CORROSION, AND CORROSION-RESISTANT COMPONENT OBTAINABLE BY SAID METHOD

Title (de)

VERFAHREN ZUR ERHÖHUNG EINER KORROSIONSBESTÄNDIGKEIT EINES MIT EINER MAGNESIUMBASISLEGIERUNG GEBILDETEN BAUTEILES GEGEN GALVANISCHE KORROSION SOWIE DAMIT ERHÄLTliches KORROSIONSBESTÄNDIGES BAUTEIL

Title (fr)

PROCÉDÉ PERMETTANT D'AUGMENTER LA RÉSISTANCE À LA CORROSION GALVANIQUE D'UNE PIÈCE FORMÉE D'UN ALLIAGE À BASE DE MAGNÉSIUM, AINSI QUE PIÈCE RÉSISTANTE À LA CORROSION POUVANT ÊTRE AINSI OBTENUE

Publication

**EP 3899076 C0 20240228 (DE)**

Application

**EP 19823892 A 20191211**

Priority

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- AT 2019060433 W 20191211

Abstract (en)

[origin: WO2020124112A1] The invention relates to a method for increasing the corrosion resistance of a component formed of a magnesium-based alloy against galvanic corrosion, in particular micro-galvanic corrosion. According to invention, an increase in the corrosion resistance against galvanic corrosion is achieved in a simple manner in that a surface layer of the component having a predefined thickness, which surface layer is formed of the magnesium-based alloy, is heated such that the surface layer has a homogenized mixed-crystal phase, whereupon the surface layer is cooled such that the surface layer has a supersaturated mixed-crystal phase. The invention further relates to a corrosion-resistance component obtainable by a method of this type.

IPC 8 full level

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CPC (source: AT EP US)

**C22C 23/00** (2013.01 - EP US); **C22C 23/02** (2013.01 - EP US); **C22F 1/06** (2013.01 - EP US); **C23F 15/00** (2013.01 - AT US)

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