

Title (en)

PRETREATMENT BEFORE PAINTING OF COMPOSITE METAL STRUCTURES CONTAINING ALUMINUM PORTIONS

Title (de)

VORBEHANDLUNG ZUM FÄRBEN VON KOMPOSITMATERIALIEN, DIE ALUMINIUMTEILE ENTHALTEN

Title (fr)

PRETRAITEMENT AVANT PEINTURE DE STRUCTURES DE METAL COMPOSITE RENFERMANT DES PORTIONS D'ALUMINIUM

Publication

EP 1027170 A1 20000816 (EN)

Application

EP 98946801 A 19980904

Priority

- US 9818001 W 19980904
- US 5848197 P 19970910

Abstract (en)

[origin: WO9912661A1] In a process for the chemical pretreatment before painting of composite metal structures that contain aluminum or aluminum alloy portions together with steel, galvanized steel and/or alloy-galvanized steel portions, in a first step the metal structure is treated with a zinc phosphating solution that forms a surface-covering crystalline zinc phosphate layer on steel and on galvanized or alloy-galvanized steel, but without forming a zinc phosphate layer on the aluminum portions, and then in a second step the metal structure is brought into contact with a treatment solution that does not excessively dissolve the crystalline zinc phosphate layer on steel, galvanized and/or alloy-galvanized steel, but forms a conversion layer on the aluminum portions.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR)

C23C 22/12 (2013.01 - EP KR); **C23C 22/184** (2013.01 - EP KR); **C23C 22/73** (2013.01 - EP KR); **C23C 22/83** (2013.01 - EP KR)

Cited by

DE102010030697A1; CN109317382A; US10400337B2; US9550208B2; US11518960B2; US10125424B2; US10435806B2; US10920324B2; US11591707B2; WO2022101192A1

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