

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

**B05D 3/00**; **B05D 3/02**; **B05D 1/18**; **C23C 22/00**; **C23C 22/07**

IPC 8 full level

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CPC (source: EP KR)

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Cited by

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

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