

Title (en)
CHROMIUM-FREE CONVERSION-COATING TREATMENT OF ALUMINIUM

Title (de)
CHROMFREIE KONVERSIONSBEHANDLUNG VON ALUMINIUM

Title (fr)
TRAITEMENT DE REVETEMENT PAR CONVERSION SANS CHROME POUR L'ALUMINIUM

Publication
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Application
EP 94916970 A 19940517

Priority
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Abstract (en)
[origin: CA2163621A1] The invention concerns a method of pretreating aluminum or aluminum alloy surfaces before application of a permanent corrosion-protective conversion coating treatment, in particular before phosphating in acidic phosphating baths containing zinc, a chromating treatment, or a chromate free treatment. The method is characterized in that the surfaces are brought into contact with acidic aqueous treatment solutions containing complex fluorides of the elements boron, silicon, titanium, zirconium, or hafnium, alone or in mixtures with each other, at total concentrations between 100 and 4000 mg/L and at a pH between 0.3 and 3.5. Following the pretreatment, the aluminum or aluminum alloy parts may, after shaping if necessary, be joined by adhesive bonding and/or welding to each other or to parts made of steel, zinc plated and/or zinc alloy plated steel, and/or aluminum or aluminum alloy plated steel.

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IPC 8 full level
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C23C 22/80 (2013.01 - KR)

Citation (examination)
• WO 9012902 A1 19901101 - HENKEL CORP [US]
• US 4017334 A 19770412 - MATSUSHIMA YASUNOBU, et al

Cited by
WO2006084491A1; DE102014225237B3; US10400337B2; WO0068458A1; US7709058B2; US10125424B2; US10920324B2;
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DE 4317217 A1 19941201; AU 675328 B2 19970130; AU 6844294 A 19941220; CA 2163621 A1 19941208; CA 2163621 C 20041026;
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JP H08510505 A 19961105; KR 100326612 B1 20021130; KR 960702539 A 19960427; US 5584946 A 19961217; WO 9428193 A1 19941208

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