

Title (en)  
PRETREATMENT PROCESS FOR COATING OF ALUMINIUM MATERIALS

Title (de)  
VORBEHANDLUNGSPROZESS FÜR DAS BESCHICHTEN VON ALUMINIUMWERKSTOFFEN

Title (fr)  
PROCESSUS DE TRAITEMENT DE SURFACE POUR L'ENDUCTION DE MATERIAUX EN ALUMINIUM

Publication  
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Application  
**EP 02785370 A 20021107**

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Abstract (en)  
[origin: US2005067296A1] The invention relates to a method for applying electro-deposited metal coatings (3) upon aluminium or aluminium alloy components (1). According to said method, the surface (4) of the component is cleaned in an appropriate solution, in particular a solution of oils, fats, emulsions, pigments, etc. Said surface (4) is then etched in an appropriate solution, such that a certain quantity of material or near-surface alloy constituents is dissolved. After cleaning and dissolution, water rinsing is carried out. Immediately after the dissolution of the near-surface regions, the surface (4) of said component (1) is activated in a solution, containing iron ions, with a sulphate base by the anodic coupling of said component (1). The functional layer (3) is then applied by the cathodic coupling of said component (1), without intermediate rinsing, in the same electrolyte or in a similar or equivalent electrolyte, said functional layer (3) being made of iron (5).

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