

Title (en)  
Process for modification of metallic surfaces

Title (de)  
Verfahren zur Modifizierung von Metalloberflächen

Title (fr)  
Procédé pour la modification de surfaces métalliques

Publication  
**EP 0672467 B1 19990107 (DE)**

Application  
**EP 95103462 A 19950310**

Priority  
DE 4409306 A 19940318

Abstract (en)  
[origin: EP0672467A1] Method of modifying cleaned or chemically pre-treated metal surfaces with aq. solns. of organic polymers contg. amino gps. In an example, a sample of Mn-modified, low Zn content, phosphatised steel that had been cleaned with water was immersed for 60s in a 0.1 wt.% aq. polyvinylamine soln. at 50 deg.C, then after drying in air the sample was immersed for 5s in deionised water and then after drying in air again the sample was cathodically electro-plated in a bath according to the comparative example in German patent application DE4208056-A2. The sample was plated at 320-380 V to give a 23 micron thick coating, and then fired for 25 mins. at 165 deg.C. A 0.1 mm wide incision was made in the lacquered sample, extending down to the metal surface and the sample was sprayed for 15 days with aq. NaCl soln. (5 wt.%) at 40 deg.C (salt water spray test), whilst another sample was immersed for 10 days in an aq. NaCl soln. (5 wt.%) warmed to 55 deg.C (salt water soak test). No rust was observed for the soak test, whilst only a slight amt. of rust was observed for the spray test.

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**B05D 3/10**; C09D 139/00

IPC 8 full level  
**B05D 3/10** (2006.01); **B05D 7/14** (2006.01); **C08L 39/00** (2006.01); **C09D 139/00** (2006.01); **C25D 13/20** (2006.01)

CPC (source: EP US)  
**B05D 3/102** (2013.01 - EP US); **B05D 7/14** (2013.01 - EP US)

Cited by  
RU2504601C2; AU2009309946B2; WO2010049198A1; DE102008053517A1; US8142897B2

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