

Title (en)  
PROCESS AND PRODUCT FOR THE PASSIVATION OF IRON AND STEEL SURFACES

Publication  
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Application  
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Priority  
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Abstract (en)  
[origin: WO8200665A1] Metal surfaces are treated with 0,5 to 5% by weight of aqueous solutions (pH 7.5 to 10.5) containing a combination of anticorrosive substances giving a clear aqueous solution. This combination includes: a) one or several alkylamides of n-monomaleic or isomaleic acid with 6 to 14, preferably 8 to 10 carbon atoms. b) one or several alkanolamines, preferably mono-, di and/or triethanolamine and c) complexing phosphonic oxides, preferably 1-hydroxy-alkyl-1, 1-diphosphonic oxyde, 1-aminoalkyl-1 acid, 1-diphosphonic, phosphonocarbonic acid and/or a phosphonic acid having the formula: (FORMULA) Preferred phosphonic acids are 1-hydroxyethane-1, 1-diphosphonic, 2-phosphonobutane-1,2,4-tricarboxylic and/or nitrilotrimethylenephosphonic acid. The ratio a:b in the solutions has to be from 1:0,3 to 1:10, the ratio a:c has to be from 1:0.01 to 1:0,5. The solutions may further contain surfactants, preferably phosphates and/or borates. These solutions provide a better protection against corrosion than that obtained with the means used heretofore.

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