

Title (en)  
METHOD FOR GENERATING A PHOSPHATE CONVERSION COATING AND NICKEL-FREE PHOSPHATING SOLUTION

Title (de)  
VERFAHREN ZUM ERZEUGEN EINER PHOSPHATIERSCHICHT UND NICKELFREIE PHOSPHATIERLÖSUNG

Title (fr)  
PROCÉDÉ DE GÉNÉRATION D'UN REVÊTEMENT DE CONVERSION DE PHOSPHATE ET SOLUTION DE PHOSPHATATION EXEMPT DE NICKEL

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Application  
**EP 20713264 A 20200319**

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Abstract (en)  
[origin: WO2021185449A1] The invention provides a method for generating a phosphate conversion coating on a surface of a steel flat product provided with a metallic protective coating, the polluting effect of which method is minimized. To this end, according to the invention, a nickel-free aqueous phosphating solution is applied to the metallic protective coating, which solution contains 0.1 - 10 g/l phosphoric acid, 0.5 - 15 g/l of a zinc salt, 1 - 100 g/l of an alkaline earth metal salt, and 0.5 - 25 g/l of a monovalent or polyvalent organic carboxylic acid comprising 1-8 carbon atoms or a salt of said carboxylic acid and optionally at least one additive selected from the group of surfactants and iron salts, in contents of up to 10 g/l each.

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