

Title (en)  
ELECTROLYTIC IRON PLATING ON ZINC SURFACES

Title (de)  
ELEKTROLYTISCHE VEREISENUNG VON ZINKOBERFLÄCHEN

Title (fr)  
PLACAGE ÉLECTROLYTIQUE DE FER SUR DES SURFACES EN ZINC

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Abstract (en)  
[origin: CA2840117A1] The invention relates to a method for the metallized pre-treatment of galvanized and/or alloy-galvanized steel surfaces or joined metallic components that at least partially have surfaces made of zinc, wherein a thin coating layer of iron is separated on the zinc surfaces from water soluble compounds containing an aqueous electrolyte, which are a source for iron cations. The method according to the invention is carried out at least partially or permanently under the creation of an electrolysis voltage, wherein the galvanized and/or alloy-galvanized steel surfaces are connected as cathodes. The aqueous electrolyte additionally contains an accelerator selected from oxoacids of the elements phosphorous, nitrogen and/or sulfur, wherein the elements phosphorous, nitrogen and/or sulfur are present in average oxidation states.

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