

Title (en)  
METHOD FOR THE THERMOCHEMICAL PASSIVATION OF STAINLESS STEEL

Title (de)  
VERFAHREN ZUM THERMOCHEMISCHEN PASSIVIEREN VON EDELSTAHL

Title (fr)  
PROCÉDÉ DE PASSIVATION THERMOCHIMIQUE D'ACIER INOXYDABLE

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Application  
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Abstract (en)  
[origin: US2010132844A1] The present invention relates to a process for improving the heat and corrosion resistance of stainless steel by means of a novel passivation process. This process comprises a chemical treatment with an aqueous solution comprising a complexing agent combination of at least one oxidant, a subsequent rinsing and a subsequent treatment at elevated temperature in an oxygen-containing atmosphere. The stainless steel surfaces obtained according to the invention have a homogeneous passive layer having increased chemical resistance and resistance to thermal discoloration.

IPC 8 full level  
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