

Title (en)

AUSTENITIC STAINLESS STEEL AND PROCESS FOR HYDROGEN REMOVAL THEREOF

Title (de)

AUSTENITISCHER EDELSTAHL UND WASSERSTOFFENTFERNUNGSVERFAHREN DAFÜR

Title (fr)

ACIER INOXYDABLE AUSTÉNITIQUE ET PROCÉDÉ POUR LE RETRAIT D'HYDROGÈNE À PARTIR DE CELUI-CI

Publication

EP 2248918 A1 20101110 (EN)

Application

EP 09714474 A 20090209

Priority

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Abstract (en)

The present invention focuses on diffusible hydrogen and non-diffusible hydrogen that cause hydrogen embrittlement in an austenitic stainless steel, and provides the austenitic stainless steel having diffusible hydrogen and non-diffusible hydrogen removed therefrom, and a method for removing hydrogen therefrom. In order to remove diffusible hydrogen and non-diffusible hydrogen, which cause hydrogen embrittlement in the austenitic stainless steel, an aging treatment is performed to the austenitic stainless steel at a temperature ranging from 200 to 1100°C while being kept in an air atmosphere. As a result, the hydrogen (H) content in the austenitic steel is removed to 0.001 wt% (1 wt ppm) or less.

IPC 8 full level

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CPC (source: EP KR US)

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