

Title (en)

METHOD OF POST WELD HEAT TREATMENT OF A LOW ALLOY STEEL PIPE

Title (de)

VERFAHREN ZUR WÄRMENACHBEHANDLUNG EINES NIEDRIGLEGIERTEN STAHLROHRES

Title (fr)

PROCÉDÉ DE TRAITEMENT THERMIQUE APRÈS SOUDAGE D'UN TUYAU EN ACIER FAIBLEMENT ALLIÉ

Publication

**EP 2803741 A1 20141119 (EN)**

Application

**EP 12864721 A 20121217**

Priority

- JP 2012004204 A 20120112
- JP 2012082608 W 20121217

Abstract (en)

A low alloy steel subjected to post weld heat treatment, containing, by mass percent, of C: 0.01 to 0.15%, Si: 3% or less, Mn: 3% or less, and Al: 0.08% or less, one or more kinds of elements selected from Ti, V and Nb: the range satisfying Formula (1), and the balance being Fe and impurities, wherein in the impurities, N: 0.01% or less, P: 0.05% or less, S: 0.03% or less, and O: 0.03% or less: where, the symbol of element in the formula represents the content (mass%) of each element. In the alloy steel, a HAZ subjected to PWHT, especially short-time PWHT, has excellent hydrogen embrittlement resistance in wet hydrogen sulfide environments or the like.

IPC 8 full level

**C22C 38/00** (2006.01); **C21D 9/08** (2006.01); **C21D 9/50** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/08** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/18** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP US)

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