

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 B1 20190807 (EN)

Application
EP 12864721 A 20121217

Priority
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• JP 2012082608 W 20121217

Abstract (en)
[origin: EP2803741A1] 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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