

Title (en)  
LOW ALLOY STEEL

Title (de)  
LEGIERUNGSSTAHL

Title (fr)  
ACIER FAIBLEMENT ALLIÉ

Publication  
**EP 2803741 A4 20151202 (EN)**

Application  
**EP 12864721 A 20121217**

Priority  
• JP 2012004204 A 20120112  
• 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)  
**C21D 9/08** (2013.01 - EP US); **C21D 9/50** (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/08** (2013.01 - EP US); **C22C 38/12** (2013.01 - EP US); **C22C 38/14** (2013.01 - EP US); **C22C 38/18** (2013.01 - EP US); **C22C 38/22** (2013.01 - US); **C22C 38/24** (2013.01 - US); **C22C 38/26** (2013.01 - US); **C22C 38/28** (2013.01 - US); **C22C 38/32** (2013.01 - US); **C22C 38/38** (2013.01 - US); **C22C 38/42** (2013.01 - US); **C22C 38/44** (2013.01 - US); **C22C 38/48** (2013.01 - US); **C22C 38/54** (2013.01 - US)

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