

Title (en)

Constructional steel resistant to stress corrosion cracking.

Title (de)

Spannungsrisskorrosionsbeständiger Baustahl.

Title (fr)

Acier de construction résistant à la fissuration par corrosion sous contraintes.

Publication

**EP 0256429 A1 19880224 (DE)**

Application

**EP 87111293 A 19870805**

Priority

DE 3627668 A 19860814

Abstract (en)

Structural steel of high resistance to intergranular stress corrosion cracking, especially in nitrate solutions, and of good weldability consists of (in per cent by mass): 0.01 to 0.04 % of carbon up to 0.012% of nitrogen 0.08 to 0.22% of titanium, with the proviso that Ti = 3.5 (C+N) 0.2 to 2.5% of manganese 2.0 to 5.5% of chromium 0.01 to 0.10% of aluminium up to 0.5% of silicon up to 1.0% of nickel up to 0.02% of phosphorus up to 0.02% of sulphur, the remainder being iron and unavoidable impurities. <IMAGE>

Abstract (de)

Die Erfindung betrifft einen Baustahl mit hoher Beständigkeit gegen interkristalline Spannungsrißkorrosion, insbesondere in Nitratlösungen, und guter Schweißbarkeit, bestehend aus (in Masse-%) : 0,01 bis 0,04 % Kohlenstoff bis 0,012 % Stickstoff 0,08 bis 0,22 % Titan mit der Maßgabe Ti = 3,5 (C+N) 0,2 bis 2,5 % Mangan 2,0 bis 5,5 % Chrom 0,01 bis 0,10 % Aluminium bis 0,5 % Silicium bis 1,0 % Nickel bis 0,02 % Phosphor bis 0,02 % Schwefel Rest Eisen und unvermeidbare Verunreinigungen.

IPC 1-7

**C22C 38/28**

IPC 8 full level

**C21B 9/10** (2006.01); **C22C 38/00** (2006.01); **C22C 38/28** (2006.01); **C22C 38/38** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)

**C22C 38/28** (2013.01 - EP US); **C22C 38/50** (2013.01 - KR)

Citation (search report)

- [X] GB 1568616 A 19800604 - BRITISH STEEL CORP
- [A] GB 2058133 A 19810408 - ARMCO INC
- [A] US 2315156 A 19430330 - LARRSBEE CLIFFORD P
- [A] FR 1333278 A 19630726 - YAWATA IRON & STEEL CO
- [AD] FR 2418277 A1 19790921 - NIPPON STEEL CORP [JP]
- [X] PATENT ABSTRACTS OF JAPAN, Band 9, Nr. 130 (C-284)[1853], 5. Juni 1985; & JP-A-60 17 055 (NIHON STAINLESS K.K.) 28-01-1985

Designated contracting state (EPC)

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