

Title (en)

Nitrogen-containing martensitic steel with low carbon content and process for its manufacture

Title (de)

Stickstoff enthaltendes martensitisches Stahl mit niedrigem Kohlenstoffgehalt und Verfahren zur Herstellung

Title (fr)

Acier martensitique à l'azote à faible teneur en carbone et son procédé de fabrication

Publication

EP 0638658 B1 19980930 (FR)

Application

EP 94401751 A 19940729

Priority

FR 9309858 A 19930811

Abstract (en)

[origin: EP0638658A1] Martensitic stainless steel including: a - from 0.5 to 0.85 % by weight of carbon + nitrogen b - from 0.15 to 0.24 % by weight of nitrogen c - from 0 to 0.50 % by weight of silicon d - from 0 to 0.70 % by weight of manganese e - from 0 to 0.50 % by weight of nickel f - from 14 to 17 % by weight of chromium g - from 1 to 2.5 % by weight of molybdenum h - from 0.10 to 0.70 % by weight of vanadium, the remaining fraction consisting of iron and of residues and the respective contents of each of these elements being determined so as to restrict the residual austenite content to a value lower than 10 % by volume.

IPC 1-7

C22C 38/22; C22C 38/24; C22C 38/00

IPC 8 full level

C22C 38/00 (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01)

CPC (source: EP)

C22C 38/001 (2013.01); **C22C 38/22** (2013.01); **C22C 38/24** (2013.01)

Cited by

EP0710731A3; EP1201775A1; EP0721995A3; CN1068073C; EP2159295A3; EP1304393A4; EP1626097A1; EP1238118A4; EP0694622A1; CN107567507A; DE102004051629A1; DE102004051629B4; CN115109891A; JP2019196530A; US7181847B2; US8591673B2; US11560613B2; JP2007530784A; CN100463996C; DE19924515A1; AU2005226606B2; WO2006045383A1; WO2019216145A1; WO2005093112A1; WO2016146857A1; WO2016174500A1

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