

Title (en)

HIGH CHROMIUM CAST STEEL FOR HIGH-TEMPERATURE PRESSURE CONTAINER AND METHOD FOR THE THERMAL TREATMENT THEREOF

Publication

**EP 0188995 B1 19910123 (EN)**

Application

**EP 85730139 A 19851011**

Priority

- JP 21632284 A 19841017
- JP 21632384 A 19841017

Abstract (en)

[origin: EP0188995A1] A high chromium steel for high-temperature, pressure container consisting of, in weight percent, 0.08-0.12% of carbon, up to 0.7% of silicon, up to 0.8% of manganese, 0.4-0.7% of nickel, 9-11% of chromium, 0.65-1.00% of molybdenum, 0.13-0.20% of vanadium, 0.03-0.07% of niobium, 0.03-0.07% of nitrogen, optionally, up to 0.7% of cobalt, the balance being iron and inevitable impurities, is described. A method for the thermal treatment of this cast steel is also described, according to which the cast steel is heated to a temperature of 1000-1100 DEG C and normalized, cooled down to a temperature not higher than 250 DEG C, followed by tempering once in a temperature range of 550-750 DEG C and cooling down to a temperature under 150 DEG C. The resulting steel is finally tempered at 680-750 DEG C.

IPC 1-7

**C21D 6/00; C22C 38/44; C22C 38/46; C22C 38/48**

IPC 8 full level

**C22C 38/00** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/48** (2006.01)

CPC (source: EP)

**C22C 38/001** (2013.01); **C22C 38/44** (2013.01); **C22C 38/46** (2013.01); **C22C 38/48** (2013.01)

Cited by

GB2179674B; EP0767250A3; US5961284A; EP0860511A1; US6007767A; US6123897A; WO9200158A1

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

**EP 0188995 A1 19860730; EP 0188995 B1 19910123; DE 3581527 D1 19910228**

DOCDB simple family (application)

**EP 85730139 A 19851011; DE 3581527 T 19851011**