

Title (en)

High strength stainless austenitic steel with high structural stability and its uses

Title (de)

Hochfester rostfreier austenitischer Stahl mit hoher Gefügebeständigkeit und seine Verwendungen

Title (fr)

Acier inoxydable austénitique à hautes caractéristiques ayant une grande stabilité structurale et utilisations

Publication

**EP 0649913 B1 20000126 (FR)**

Application

**EP 94402202 A 19941003**

Priority

FR 9312578 A 19931021

Abstract (en)

[origin: EP0649913A1] The steel contains, by weight, from 0.35 to 0.8 % of nitrogen and from 1 to 5 % of tungsten. The chemical composition of the steel preferably comprises, in weight contents, 23 to 28 % of Cr, 15 to 28 % of Ni, 0.5 to 6 % of Mn, from 3 to 8 % of Mo, in addition to the nitrogen and tungsten. As a result of its high corrosion resistance the steel can be employed for the manufacture of massive components for any application, especially for the manufacture of equipment for oil platforms and for chemical factories, of containers for the transport of corrosive products, of ships' hulls and of plated sheets.

IPC 1-7

**C22C 30/00**; **C22C 38/58**; **C22C 38/00**

IPC 8 full level

**C22C 30/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP US)

**C22C 30/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP US)

Citation (examination)

JP H04218643 A 19920810 - HITACHI METALS LTD

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

**EP 0649913 A1 19950426**; **EP 0649913 B1 20000126**; AT E189268 T1 20000215; CA 2118288 A1 19950422; CA 2118288 C 20041005; DE 69422772 D1 20000302; DE 69422772 T2 20000608; DK 0649913 T3 20000619; ES 2141808 T3 20000401; FI 109032 B 20020515; FI 944908 A0 19941019; FI 944908 A 19950422; FR 2711674 A1 19950505; FR 2711674 B1 19960112; GR 3033188 T3 20000831; NO 302710 B1 19980414; NO 943942 D0 19941018; NO 943942 L 19950424; PT 649913 E 20000630; US 5494636 A 19960227

DOCDB simple family (application)

**EP 94402202 A 19941003**; AT 94402202 T 19941003; CA 2118288 A 19941017; DE 69422772 T 19941003; DK 94402202 T 19941003; ES 94402202 T 19941003; FI 944908 A 19941019; FR 9312578 A 19931021; GR 20000400882 T 20000412; NO 943942 A 19941018; PT 94402202 T 19941003; US 31899394 A 19941006