

Title (en)

Cast stainless steel alloy and method for its manufacture.

Title (de)

Rostfreie Gussstahllegierung und Verfahren zu ihrer Herstellung.

Title (fr)

Acier moulé inoxydable et procédé pour sa fabrication.

Publication

EP 0207697 A1 19870107 (EN)

Application

EP 86304758 A 19860620

Priority

US 74915385 A 19850626

Abstract (en)

Cast metal parts such as turbocharger housings which are subject to operating temperatures up to about 2000 DEG F (1093 DEG C) and require good thermal cyclic durability (resistance to thermal cracking) and burst containment properties, are made from a low nickel duplex stainless steel with nitrogen addition by the use of grey and ductile iron casting technology.

IPC 1-7

C22C 38/60; **C22C 38/00**; **C22C 38/48**

IPC 8 full level

C21D 6/00 (2006.01); **C22C 38/00** (2006.01); **C22C 38/48** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP)

C22C 38/60 (2013.01)

Citation (search report)

- [A] US 3563729 A 19710216 - KOVACH CURTIS W, et al
- [AD] US 3969109 A 19760713 - TANCZYN HARRY
- [A] US 4405389 A 19830920 - LARSON JOHN A [US]

Cited by

US6165288A; US2014099196A1; EP1472382A4; CN109766634A; GB2193726B; EP2980253A1; EP3168318A1; CN103534459A; US10309415B2; US9896752B2; WO2017194282A1; WO2012170188A3; US10975718B2; US9534281B2; US10316694B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0207697 A1 19870107; **EP 0207697 B1 19890906**; AT E46194 T1 19890915; BR 8505304 A 19870217; DE 3665488 D1 19891012; ES 556779 A0 19870801; ES 8707569 A1 19870801; JP H0672294 B2 19940914; JP S624855 A 19870110

DOCDB simple family (application)

EP 86304758 A 19860620; AT 86304758 T 19860620; BR 8505304 A 19851023; DE 3665488 T 19860620; ES 556779 A 19860625; JP 22976885 A 19851015