

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

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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