Title (en)

HIGH-ALLOY SPHEROIDAL GRAPHITE CAST IRON HAVING AN AUSTENITIC STRUCTURE, USE OF SAID CAST IRON FOR MANUFACTURING STRUCTURAL COMPONENTS AND STRUCTURAL COMPONENT MADE OF SAID CAST IRON

Title (de)

HOCHLEGIERTES KUGELGRAPHITGUSSEISEN MIT EINEM AUSTENITISCHEN GEFÜGE, VERWENDUNG DES GUSSEISENS ZUR HERSTELLUNG VON BAUTEILEN SOWIE STRUKTURBAUTEIL AUS DIESEM GUSSEISEN

Title (fr)

FONTE À GRAPHITE SPHÉROÏDAL FORTEMENT ALLIÉE AYANT UNE STRUCTURE AUSTÉNITIQUE, UTILISATION DE LADITE FONTE POUR FABRIQUER DES COMPOSANTS STRUCTURAUX ET COMPOSANT STRUCTURAL CONSTITUÉ DE LADITE FONTE

Publication

EP 2710164 A2 20140326 (EN)

Application

EP 12726221 A 20120515

Priority

- IT MI20110861 A 20110517
- IB 2012052429 W 20120515

Abstract (en)

[origin: WO2012156910A2] The present invention relates to a high-alloy spheroidal graphite cast iron having an austenitic structure comprising the following ingredients in the following percentages by weight: Chrome (Cr) ranging from 1,6% to 2,0%, Molybdenum (Mo) ranging from 0,9% to 1,1%, Niobium (Nb) ranging from 0,3% to 0,5%, Nickel (Ni) ranging from 34% to 36%, Silicon (Si) ranging from 6,1% to 6,7%, Carbon (C) ranging from 1,6% to 2,0%, Tungsten (W) ranging from 0,5% to 0,7%, Manganese (Mn) ranging from 0,5% to 0,65%; the present invention relates also to a structural component intended to operate in the temperature range of exhaust gases ranging from 920°C to 1020°C and particularly for exhaust manifolds, turbines and/or turbo manifolds for automotive industry.

IPC 8 full level

C22C 37/10 (2006.01)

CPC (source: EP)

C22C 37/10 (2013.01)

Citation (search report)

See references of WO 2012156910A2

Cited by

US11111819B2; WO2018036757A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012156910 A2 20121122; **WO 2012156910 A3 20130110**; BR 112013029563 A2 20170321; CN 103687972 A 20140326; EP 2710164 A2 20140326; EP 2710164 B1 20150909; ES 2555481 T3 20160104; HU E028165 T2 20161228; IT MI20110861 A1 20121118; PL 2710164 T3 20160531; PT 2710164 E 20151228; RS 54426 B1 20160428; SI 2710164 T1 20160229

DOCDB simple family (application)

IB 2012052429 W 20120515; BR 112013029563 A 20120515; CN 201280023616 A 20120515; EP 12726221 A 20120515; ES 12726221 T 20120515; HU E12726221 A 20120515; IT MI20110861 A 20110517; PL 12726221 T 20120515; PT 12726221 T 20120515; RS P20150813 A 20120515; SI 201230379 T 20120515