

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)

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

Publication

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Application

**EP 12726221 A 20120515**

Priority

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- 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)

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Cited by

US11111819B2; WO2018036757A1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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