

Title (en)
SPHEROIDAL CAST ALLOY AND METHOD FOR PRODUCING CAST PARTS FROM SAID SPHEROIDAL CAST ALLOY

Title (de)
SPHÄROGUSSLEGIERUNG UND VERFAHREN ZUR HERSTELLUNG VON GUSSTEILEN AUS DER SPHÄROGUSSLEGIERUNG

Title (fr)
ALLIAGE COULE NODULAIRE ET PROCEDE POUR PRODUIRE DES PIECES COULEES A PARTIR DE CET ALLIAGE COULE NODULAIRE

Publication
EP 1834005 B1 20100818 (DE)

Application
EP 05803315 A 20051114

Priority

- EP 2005012160 W 20051114
- DE 102004056331 A 20041122

Abstract (en)
[origin: US2009047164A1] A spheroidal cast alloy for producing cast iron products with great mechanical strength, high-wear resistance and a high degree of ductility. The alloy comprises the following as non-iron components: between 2.5 and 2.8 wt. % C, between 2.4 and 3.4 wt. % Si, between 0.02 and 0.08 wt. % P, between 0.02 and 0.06 wt. % Mg, between 0.01 and 0.05 wt. % Cr, between 0.002 and 0.02 wt. % Al, between 0.0005 and 0.015 wt. % S, between 0.0002 and 0.002 wt. % B and conventional impurities. The alloy contains between 3.0 and 3.7 wt. % C, between 2.6 and 3.4 wt. % Si, between 0.02 and 0.05 wt. % P, between 0.025 and 0.045 wt. % Mg, between 0.01 and 0.03 wt. % Cr, between 0.003 and 0.017 wt. % Al, between 0.0005 and 0.012 wt. % S and between 0.0004 and 0.002 wt. % B. The alloy is used for example to produce chassis parts or brake discs in the automobile industry.

IPC 8 full level
C22C 37/04 (2006.01)

CPC (source: EP KR US)
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CN 100529135 C 20090819; CN 101072890 A 20071114; DE 102004056331 A1 20060524; DE 502005010119 D1 20100930;
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