

Title (en)
Spheroidal graphite cast iron with addition of boron

Title (de)
Sphärogusslegierung mit Beimengung von Bor

Title (fr)
La fonte nodulaire avec addition de Bore

Publication
EP 1270747 A3 20040102 (DE)

Application
EP 02006104 A 20020319

Priority
DE 10129382 A 20010620

Abstract (en)
[origin: EP1270747A2] Spheroidal graphite iron contains C, Si, Mn, Cu, Mg and S as non-ferrous component; and one or more elements selected from group IIIb elements as addition. An Independent claim is also included for a process for the production of a cast iron product from the spheroidal graphite iron. Preferred Features: The Si content is 2.6-2.9 %. The alloy contains 2-200 ppm B as addition.

IPC 1-7
C21C 1/10; **C22C 37/04**

IPC 8 full level
C21C 1/10 (2006.01); **C21D 5/02** (2006.01); **C22C 37/04** (2006.01); **C22C 37/10** (2006.01); **C21D 1/30** (2006.01); **C21D 7/06** (2006.01)

CPC (source: EP US)
C21C 1/10 (2013.01 - EP US); **C21D 5/02** (2013.01 - EP US); **C22C 37/04** (2013.01 - EP US); **C22C 37/10** (2013.01 - EP US);
C21D 1/30 (2013.01 - EP US); **C21D 7/06** (2013.01 - EP US)

Citation (search report)
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• [X] EP 0525540 A1 19930203 - MAN B & W DIESEL AG [DE]
• [X] FR 1193067 A 19591030 - BOUCHAYER & VIALLET ETS
• [A] US 5876523 A 19990302 - NAGAYOSHI HIDEAKI [JP], et al
• [L] SPIEKERMANN P: "LEGIERUNGEN - EIN BESONDERES PATENTRECHTLICHES PROBLEM? - LEGIERUNGSPRUEFUNG IM EUROPÄISCHEN PATENTAMT -", MITTEILUNGEN DER DEUTSCHEN PATENTANWÄLTE, HEYMANN, KOLN., DE, 1993, pages 178 - 190, XP000961882, ISSN: 0026-6884

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EP3170578A1; EP3243920A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1270747 A2 20030102; **EP 1270747 A3 20040102**; **EP 1270747 B1 20061004**; AT E341650 T1 20061015; BR 0202323 A 20030408; BR 0202323 B1 20101103; CY 1107543 T1 20130313; DE 10129382 A1 20030102; DE 50208313 D1 20061116; DK 1270747 T3 20070205; ES 2269539 T3 20070401; MX PA02006048 A 20030820; PT 1270747 E 20070131; US 2002195180 A1 20021226; US 6861029 B2 20050301

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