

Title (en)
NODULAR GRAPHITE IRON ALLOY

Title (de)
SPHÄROGUSSLEGIERUNG

Title (fr)
ALLIAGE DE FONTE NODULAIRE

Publication
EP 1468126 A1 20041020 (DE)

Application
EP 02792934 A 20021207

Priority
• DE 10201218 A 20020114
• EP 0213895 W 20021207

Abstract (en)
[origin: WO03057937A1] The invention relates to a nodular graphite iron alloy for cast iron products with a high modulus E of elasticity which comprises the chemical components C, Si, Cu, Ni and/or Mo, Mn, Mg and S. Said alloy is composed of, in weight percents: C < 2.9 %, Si 3.8 to 4.3 %, Cu 0.5 to 1.0 %, Ni and/or Mo 0 to 4 %, the maximum molybdenum content being 1.0 %, Mn 0.1 to 0.8 %, Mg 0.03 to 0.07 %, and a maximum content of S of 0.015 %. The components C and Si of the mixture are very close to the eutectic phase.

IPC 1-7
C22C 37/04

IPC 8 full level
F16C 3/06 (2006.01); **C22C 37/04** (2006.01); **C22C 37/10** (2006.01)

CPC (source: EP US)
C22C 37/04 (2013.01 - EP US); **C22C 37/10** (2013.01 - EP US)

Citation (search report)
See references of WO 03057937A1

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

DOCDB simple family (publication)
WO 03057937 A1 20030717; AT E309396 T1 20051115; AU 2002358642 A1 20030724; CN 100340689 C 20071003; CN 1496418 A 20040512; DE 10201218 A1 20030724; DE 50204908 D1 20051215; EP 1468126 A1 20041020; EP 1468126 B1 20051109; ES 2248629 T3 20060316; JP 2005514519 A 20050519; JP 4326959 B2 20090909; US 2004091382 A1 20040513; US 6939414 B2 20050906

DOCDB simple family (application)
EP 0213895 W 20021207; AT 02792934 T 20021207; AU 2002358642 A 20021207; CN 02806464 A 20021207; DE 10201218 A 20020114; DE 50204908 T 20021207; EP 02792934 A 20021207; ES 02792934 T 20021207; JP 2003558227 A 20021207; US 46965003 A 20030902