

Title (en)
PROCESS FOR THE PRODUCTION OF SPHEROIDAL GRAPHITE CAST IRON

Publication
EP 0357521 B1 19930512 (FR)

Application
EP 89420304 A 19890810

Priority
FR 8811190 A 19880812

Abstract (en)
[origin: EP0357521A1] The invention relates to a process for the production of cast iron containing spheroidal or vermicular graphite from a basic cast iron. It consists of a late treatment of the said basic cast iron by means of a single additive, acting as a nodulating and nucleating agent, which has the following composition, expressed in per cent by weight: Silicon 41 to 65 Magnesium 2 to 30 Bismuth 0.1 to 4 Rare earths 0.5 to 4 Ca, Ba, Sr < 4 (for each element) Aluminium < 1.5 Iron remainder The late treatment of the basic cast iron is performed either by introducing the divided additive into the nozzle for pouring the cast iron at the entry of the mould or by the so-called "in-mould" technique.

IPC 1-7
C21C 1/10; C22C 35/00

IPC 8 full level
C21C 1/10 (2006.01); **C22C 35/00** (2006.01)

CPC (source: EP KR)
C21C 1/10 (2013.01 - KR); **C21C 1/105** (2013.01 - EP); **C22C 35/00** (2013.01 - EP)

Cited by
FR2838134A1; FR2839082A1; FR2750142A1; CN102492888A; FR2697766A1; FR2855186A1; EP0410360A1; EP0816522A1; FR2750143A1; US5733502A; US7569092B2; US6177045B1; WO2004104252A1; WO03093514A3; WO9726376A1

Designated contracting state (EPC)
BE DE ES GB IT

DOCDB simple family (publication)
EP 0357521 A1 19900307; EP 0357521 B1 19930512; BR 8904037 A 19900320; CA 1337148 C 19951003; DE 68906489 D1 19930617; DE 68906489 T2 19930909; ES 2055140 T3 19940816; FR 2635534 A1 19900223; FR 2635534 B1 19920403; JP H0280505 A 19900320; KR 900003382 A 19900326; KR 930011403 B1 19931206

DOCDB simple family (application)
EP 89420304 A 19890810; BR 8904037 A 19890810; CA 607776 A 19890808; DE 68906489 T 19890810; ES 89420304 T 19890810; FR 8811190 A 19880812; JP 20556689 A 19890808; KR 890011457 A 19890811