

Title (en)
SPHEROIDAL GRAPHITE CAST IRON EXCELLENT IN GAS DEFECT RESISTANCE

Title (de)
KUGELGRAPHITGUSSEISEN MIT HERVORRAGENDER GASDEFEKT FESTIGKEIT

Title (fr)
FONTE À GRAPHITE SPHÉROÏDAL PRÉSENTANT UNE EXCELLENTE RÉSISTANCE AUX DÉFAUTS GAZEUX

Publication
EP 3358026 B1 20210602 (EN)

Application
EP 16850700 A 20160229

Priority
• JP 2015192682 A 20150930
• JP 2016055973 W 20160229

Abstract (en)
[origin: EP3358026A1] There is provided with spheroidal graphite cast iron having excellent gas defect resistance where gas defects such as pinholes attributable to the free N are small in number and having mechanical characteristics and machinability equal to or greater than the conventional ones. The spheroidal graphite cast iron consists of, in mass ratio, C: 3.3 to 4%; Si: 2 to 3%; P: not more than 0.05%; S: not more than 0.02%; Mn: not more than 0.8%; Cu: not more than 0.8% (0 is not included); Mg: 0.02 to 0.06%; Ti: 0.01 to 0.04%; V: 0.001 to 0.01%; Nb: 0.001 to 0.01%; and N: 0.004 to 0.008%, with the remnant substantially consisting of Fe and an inevitable impurity.

IPC 8 full level
C21C 1/10 (2006.01); **C22C 33/08** (2006.01); **C22C 37/04** (2006.01); **C22C 37/10** (2006.01)

CPC (source: EP KR US)
C21C 1/10 (2013.01 - EP US); **C22C 33/08** (2013.01 - EP US); **C22C 37/04** (2013.01 - EP KR US); **C22C 37/10** (2013.01 - EP US)

Citation (opposition)
Opponent : KSB SE & Co. KGaA
"Gusseisen mit Kugelgraphit", WIKIPEDIA, 29 July 2015 (2015-07-29), XP055913979

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