

Title (en)

PROCESS FOR MANUFACTURE OF CAST IRON WITH VERMICULAR GRAPHITE AND CAST IRON SO PRODUCED

Publication

EP 0032282 B1 19850724 (EN)

Application

EP 80300136 A 19800115

Priority

EP 80300136 A 19800115

Abstract (en)

[origin: EP0032282A1] A process for the production of cast iron with vermicular graphite in which molten grey cast iron is introduced in the mould cavity of a conventional pouring system which pouring system additionally includes one or more intermediate chambers containing a vermicularizing agent in an amount sufficient to convert the graphite at least in part to vermicular graphite. A nodular graphite inhibitor may be added to the molten grey cast iron before it is introduced in the mould cavity. By a particular selection of process parameters the amount of vermicularizing agent in the resulting cast iron may be closely controlled. The pouring system is known for the production of cast iron with nodular graphite but not the the production of iron with vermicular graphite. A pouring system is shown in the drawing and includes a downsprue (1), an intermediate chamber (2) which contains the vermicularizing agent, a gate (3), a runner bar and an ingate (5).

IPC 1-7

C21C 1/08

IPC 8 full level

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CPC (source: EP)

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Citation (examination)

EP 0020819 A1 19810107 - BUDERUS AG [DE]

Cited by

EP1458518A4; DE3321312A1; EP0131092A3; AT398984B; EP0249897A1; EP3519602A4; US6863114B2; WO0154844A1

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