

Title (en)

Process for manufacture of cast iron with vermicular graphite and cast iron so produced.

Title (de)

Verfahren zur Herstellung von Gusseisen mit Vermicular-Graphit und nach diesem Verfahren hergestelltes Gusseisen.

Title (fr)

Procédé de fabrication de fonte à graphite vermiculaire et fonte ainsi obtenue.

Publication

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Application

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Priority

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Abstract (en)

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).

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CPC (source: EP)

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Citation (search report)

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