

Title (en)

CASTING MOULD FOR CASTING COMPLEXLY SHAPED CAST PARTS AND USE OF SUCH A CASTING MOULD

Title (de)

GIESSFORM ZUM GIESSEN VON KOMPLEX GEFORMTEN GUSSTEILEN UND VERWENDUNG EINER SOLCHEN GIESSFORM

Title (fr)

MOULE DE COULÉE POUR COULER DES PIÈCES COULÉES FAÇONNÉES COMPLEXES ET UTILISATION D'UN TEL MOULE DE COULÉE

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Application

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Abstract (en)

[origin: WO2018134672A1] The present invention relates to a casting mould (1) for casting complexly shaped, large-volume cast parts (Z) from molten metal, wherein the casting mould (1) has a mould cavity (5), producing an impression of the cast parts (Z), and a feeding system for feeding into the mould cavity (5) the molten metal that is to be cast into the cast parts (Z), wherein the feeding system comprises a sprue (10), a runner (7), connected to the sprue, and a feeder system (8), which is connected to the runner (7), and wherein the casting mould cavity (5) is connected to the feeder system (8) or the runner (7) by way of links (9a, 9b), and relates to the use of such a casting mould (1). The casting mould (1) according to the invention reliably allows highly complexly shaped cast parts to be created even from alloys that can only be cast with difficulty, and unreliably with regard to the quality of the cast result, in the case of the conventional procedure. This is achieved by the runner (7) - seen in the direction of flow (S) of the molten metal flowing from the sprue (10) into the runner (7) while casting operation - being made to extend with a branch (18, 19) directed away from the sprue (10) along the feeder system (8) and with a directed-back branch (20), which adjoins the directed-away branch (18, 19), along the feeder system (8) in a direction opposite to the directed-away branch (18, 19), and by the feeder system (8) being connected both by the directed-away branch (18, 19) and by the directed-back branch (20) by means of two or more gates (21-24) arranged distributed along the respective branch (18, 19, 20).

IPC 8 full level

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Citation (search report)

See references of WO 2018134672A1

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