

Title (en)

METAL-CASTING METHOD AND APPARATUS, CASTING SYSTEM AND CAST-FORGING SYSTEM

Title (de)

METALLGIESSVERFAHREN UND -VORRICHTUNG, SYSTEM UND GIESS-SCHMIEDE-SYSTEM

Title (fr)

PROCEDE ET APPAREIL DE COULEE DE METAL, SYSTEME DE COULEE ET SYSTEME DE FORGEAGE DE PIECES COULEES

Publication

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Application

**EP 01961268 A 20010831**

Priority

- JP 0107553 W 20010831
- JP 2000266271 A 20000901
- JP 2000266665 A 20000904
- JP 2000297636 A 20000928
- US 25137900 P 20001206
- US 25138200 P 20001206
- US 25138100 P 20001206

Abstract (en)

[origin: WO0218072A1] An automatic continuous casting system for producing a cast body, comprising: a casting apparatus that makes use of unidirectional solidification of molten metal and includes a molten metal reservoir (4) and a mold (5), in which molten metal in a molten metal source (2) is supplied through transfer means (3) to the molten reservoir, and the molten metal (45) supplied into the molten metal reservoir is supplied through an opening/closing plug (43) into the mold; target weight calculation/storing means (8) for calculating, on the basis of compositional proportions of metal elements contained in the molten metal (45), a specific gravity of an alloy obtained through solidification of the molten metal, calculating a target weight of a cast body on the basis of the specific gravity of the alloy and a capacity of the mold, and memorizing and storing the target weight; and first molten metal supply amount regulation means (9) for regulating an amount of the molten metal supplied from the molten metal reservoir into the mold by obtaining a measurement weight of the cast body and comparing a measurement weight of the cast body and comparing the measurement weight with the target weight.

IPC 1-7

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Citation (search report)

- [Y] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 11 28 November 1997 (1997-11-28)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 014, no. 379 (M - 1012) 16 August 1990 (1990-08-16)
- See references of WO 0218072A1

Cited by

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