

Title (en)

Mold, method of producing mold and casting method.

Title (de)

Giessform, Verfahren zur ihrer Herstellung und Giessverfahren.

Title (fr)

Moule, son procédé de fabrication et procédé de coulée.

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Application

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- JP 765886 A 19860117
- JP 765986 A 19860117
- JP 766086 A 19860117
- JP 766186 A 19860117
- JP 766286 A 19860117
- JP 766386 A 19860117
- JP 766486 A 19860117
- JP 1091686 A 19860121

Abstract (en)

Disclosed are a porous calcia mold containing not less than 40 wt% CaO, a mold containing 95 to 10 wt% CaO and 5 to 50 wt% graphite, a mold containing not less than 40 wt% CaO, not more than 5 wt% low-eutectic temperature oxide and not more than 40 wt% high-eutectic temperature oxide, and a mold provided with a layer containing not less than 40 wt% CaO on the surface which comes into contact with a molten metal. A method of producing a porous mold by baking a molded body obtained by a slip casting method or an injection molding method, and a method of producing a mold by baking a molded body (1) while bringing a member for preventing the deformation of a molded body (2) into contact with the molded body (1) are also disclosed. In addition, a method of casting a highly active metal, a high-melting point metal, or an alloy containing such a metal by using one of the above-described molds, and a casting method comprising the steps of placing a bottomless porous calcia mold on a metal chill plate, pouring a molten metal by top-pouring and gradually solidifying the molten metal from the lower part while insulating the riser are also disclosed.

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CPC (source: EP)

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Citation (applicant)

- JP S54849 A 19790106 - NIPPON ELECTRIC CO
- US 3981346 A 19760921 - HAYES DOUGLAS R, et al

Citation (search report)

- US 2876122 A 19590303 - WHITTEMORE JR OSGOOD J
- DE 2047041 A1 19710401 - TOYODA CHUO KENKYUSHO KK
- US 1902419 A 19330321 - PLANT ROY A, et al
- US 2201366 A 19400521 - GRODSKY VLADIMIR A
- US 3460606 A 19690812 - BODDEY RONALD FREDERICK
- GB 1346576 A 19740213 - SECR DEFENCE
- US B511885 I5 19760127

Cited by

JP2014205897A; EP0320811A1; FR2624770A1; US4923672A

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