

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.

Publication

**EP 0233478 A1 19870826 (EN)**

Application

**EP 87100559 A 19870116**

Priority

- 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.

IPC 1-7

**B22C 1/00**; **B22C 9/06**

IPC 8 full level

**B22C 1/00** (2006.01); **B22C 9/06** (2006.01)

CPC (source: EP)

**B22C 1/00** (2013.01); **B22C 9/061** (2013.01)

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

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**EP 0233478 A1 19870826**; **EP 0233478 B1 19910424**; DE 3769489 D1 19910529

DOCDB simple family (application)

**EP 87100559 A 19870116**; DE 3769489 T 19870116