Title (en)

APPARATUS FOR SUPPLYING MOLTEN METAL AT PREDETERMINED RATE

Title (de)

VORRICHTUNG ZUM ZUFÜHREN VON METALLSCHMELZE IN VORGEGEBENEN MENGEN

Title (fr)

DISPOSITIF D'ALIMENTATION DE METAL EN FUSION A UNE VITESSE DETERMINEE

Publication

**EP 0901854 A1 19990317 (EN)**

Application

**EP 98901083 A 19980130**

Priority

- JP 9800416 W 19980130
- JP 2115997 A 19970204

Abstract (en)

A system for feeding molten metal in constant quantity to a die casting machine comprises a sealed pot 1 having an ingress port 2 and an egress port 3 and arranged in the inside of a molten metal holding furnace 5; a molten metal delivery tube 7 having one end communicated with the egress port 3; a pair of valves 8, 38 for opening and closing the ingress port 2 and the egress port 3 of the pot 1 due to the perpendicular motion; a level detecting mechanism 10 for detecting the upper limit level L1 and the lower limit level L2 of the molten metal in the inside of the pot; an inside pressure controller system 20 adapted for increasing an inside pressure in the pot by charging an inactive gas and for decreasing the inside pressure in the pot by discharging the once compression-charged inactive gas to the open air or by sucking the once compression-charged inactive gas forcibly from the pot; wherein the molten metal let in through the ingress port 2 into the inside of the pot 1 is depressed from an upper limit level L1 to a lower limit level L2 by the pressure of the charged gas and so is delivered from the inside of the pot through the egress port 3 with the delivery tube 7. <IMAGE>

IPC 1-7

**B22D 39/06**; B22D 35/00

IPC 8 full level

**B22D 39/06** (2006.01)

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