ABSTRACT

Depressurization Method In Plasticization And Metering Process For A Motor-Driven Injection Molding Machine

A motor-driven injection molding machine comprises an injection device which includes a heating cylinder for heating resin powder therein to melt the resin powder into molten resin and a screw disposed in the heading cylinder for feeding the molten resin in the heating cylinder forward to meter the molten resin. A controller positions, in response to a position detected signal detected by a position detector, the screw at a metering position using an injection servomotor on and immediately after completion of the plasticization and metering process. In addition, the controller rotates, in response to a pressure detected signal detected by a load cell, the screw in the opposite direction using a screw-rotation servomotor on and immediately after the completion of said plasticization and metering process to carry out depressurization of the molten resin in the heating cylinder that is metered ahead of the screw.

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