

ABSTRACT OF THE DISCLOSURE

TITLE: BUILT-IN MOTOR TYPE ELECTRIC INJECTION MOLDING APPARATUS

ABSTRACT: There is disclosed a built-in motor type electric injection molding apparatus. In a metering stage, the metering motor is driven in order to rotate its rotor. The rotation produced by the metering motor is transmitted to a screw via a drive force transmission mechanism, so that the screw is retracted with rotation so as to meter resin. In an injection stage, the injection motor is driven in order to rotate its rotor. The rotational motion produced by the injection motor is converted into linear motion by a motion conversion mechanism, and the linear motion is transmitted to the screw, so that the screw is advanced so as to inject the resin. Since a ventilation unit ventilates first and second motor accommodation chambers, heat generated by driving the metering motor and the injection motor is released to the outside of a casing.

SELECTED DRAWING: FIG. 2