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ABSTRACT OF THE DISCLOSURE

Title: INJECTION APPARATUS

Abstract: An injection apparatus includes an injection frame; a cylinder member attached to the injection frame; an injection member disposed within the cylinder member such that the same can rotate and can advance and retreat; a rotary slide member attached to the injection member; a stator attached to the injection frame, and a rotor disposed radially inward of the stator to be rotatable relative to the stator. The rotor includes a hollow, cylindrical member disposed radially outward of the rotary slide member and movably relative to the rotary slide member, and a magnet attached to the cylindrical member. In this case, the rotor has a cylindrical member and a magnet and can transmit generated rotation directly to the rotary slide member. Therefore, a transmission mechanism which consists of an output gear, a counter drive gear, a counter driven gear, a rotary member, etc. becomes unnecessary; and generation of noise due to meshing engagement of gears and other components can be prevented.

Accordingly, the number of components can be reduced, generation of torque loss can be prevented, and cost of the injection apparatus can be reduced.

Figure for Publication: FIG. 2