

ABSTRACT OF THE DISCLOSURE

Title: INJECTION APPARATUS

Abstract: A stationary plate is fixed to a rear end of a cylinder section. A movable plate is disposed such that it can be advanced and retracted relative to the stationary plate. An injection member is disposed within the cylinder section such that it can be advanced and retracted. The rear end of the injection member is rotatably supported by the movable plate. A drive unit generates rotation when driven. Conversion units disposed between the stationary plate and the movable plate and are adapted to covert a rotational force to a thrust force. A transmission unit is disposed between the drive unit and one of the conversion units and is adapted to transmit a rotation generated by the drive unit to the conversion unit. A synchronization unit is provided in order to synchronize the rotation of the one of the conversion units with rotations of the remaining conversion units. In this case, rotation generated by the drive unit is transmitted via the transmission unit to one of the conversion units, and the rotation of the one conversion unit is synchronized with rotation of the remaining conversion units.

Figure for Publication: FIG. 4