



ABSTRACT OF THE DISCLOSURE

An injection apparatus comprises a cylinder member, an injection member, a first support member, a drive unit, a transmission shaft, a second support member, and load detection unit. The injection member is disposed within the cylinder member such that the injection member can advance and retract. The first support member supports the injection member such that the injection member can rotate. The transmission shaft is connected to the injection member such that the transmission shaft can rotate relative to the injection member and has a rotation transmission portion, to which rotation of the drive unit is transmitted, as well as a motion conversion portion for converting rotational motion to linear motion. The second support member is adapted to allow relative rotation between the injection member and the transmission shaft. The load detection unit is disposed between the first support member and the second support member. When the rotation of the drive unit is transmitted to the transmission shaft via the rotation transmission portion, the rotational motion is converted to linear motion by the motion conversion portion, so that the injection member is advanced so as to perform injection. At this moment, the load detection unit detects the injection force.