

ABSTRACT

An injection molding apparatus capable of fitting each distal end portion of a plurality of injection nozzles to corresponding nozzle reception portions formed on the mold clamp unit so that the central axis of the injection hole at the vertex of the above mentioned distal end portion always coincide with the central axis of the resin introduction orifice at the center of the above mentioned nozzle reception portion. A passage (2) to introduce a molten resin to the inside of a nozzle pipe (1b) at a first position in the longitudinal direction of injection nozzles (1) of which distal end portion (1a) is part-spherical, and ring-like elastic members (3a), (3b) are attached at a second position in the upper direction and a third position in the lower direction spaced the same distance from the passage (2) with a disc type screw (4a), and a ring type screw (4b). Then by threading a columnar screw (7) to a through hole (80b) of the first plate-like body (8b) in the state that the injection nozzles (1) to which the ring-like elastic members (3a), (3b) are attached are inserted to each hole of a plurality of cylindrical holes (80a) of a manifold (8) where first and second plate-like bodies (8b), (8c) are fitted to the upper and lower surfaces of a manifold main body (8a), the injection nozzles (1) are attached so that a predetermined length of the distal end portions (1a)

thereof project outside the manifold (8). The injection nozzles (1) are fixed by the contact of the ring-like elastic members (3a), (3b) to the inside of the cylindrical hole (80a) of the manifold main body (8a), and the contact of the lower end portion of the ring type screw (4b) to the second plate-like body (8c), and the compression of the rear end portion of the injection nozzle (1) (disc type screw (4a)) by the spring (5), and the distal end portion (1a) can move to any orientation in response to the external force applied thereto.