elliptical region 100 in FIG. 2, and sealing the openings of the machined holes with plugs.

[0031]

The upper and lower ends of a hollow cylindrical reservoir case 41 housed in the upper housing are in contact with the upper surface of the connecting block 2 and the lower surface of the upper cover plate 15 and are sealed by O-rings or the like, thereby forming a reservoir 4 consisting of an enclosed space.

[0032]

A cylindrical manifold block 6 arranged in the reservoir 4 is attached to the connecting block 2, and a flow path for hydraulic oil and a storage space 66 for the pump 7 are formed inside. A circular recess 63 into which the lower end of a single-body hydraulic cylinder 5 is inserted is formed on the upper surface of the manifold block 6. An opening (hereinafter sometimes referred to as a "recess opening 64") that communicates with the internal flow path is formed at the bottom of this recess 63, and a port 54 that allows hydraulic oil to flow in and out through this recess opening 64 is provided at the lower end of the cylinder tube 51 of the hydraulic cylinder 5. In addition, an opening 65 that communicates with the internal flow path and to which valves (61, 62) are attached is formed on the upper surface of the manifold block 6. In addition, openings (hereinafter sometimes referred to as "exhaust ports") for returning the hydraulic oil in the flow path to the reservoir 4 is formed on an appropriate surface of the manifold block 6. In the thruster 1 according to the first embodiment, exhaust ports (FIG. 1B, reference numerals 69a, 69b) corresponding to each of the valves