CLAIMS

1. A nozzle rotation mechanism comprising a nozzle having a discharge outlet through which a liquid material is discharged while the nozzle is moved relative to an application object, a nozzle unit having a channel that is formed in the nozzle unit and is communicated with the nozzle and with a liquid material supply source, a base member, and a rotation device disposed on the base member and rotating the nozzle unit,

wherein the nozzle is disposed on the nozzle unit such that a centerline (207) of the discharge outlet of the nozzle forms an angle with respect to a rotational centerline (306) of the nozzle unit, and

the nozzle unit is removably mounted to the rotation device~~.~~ characterized in that

the rotation device includes a motor having a hollow portion that is extended to penetrate through the motor along the rotational centerline (306) in an axial direction, and the nozzle unit is fitted to the hollow portion.

2. The nozzle rotation mechanism according to claim 1, wherein the channel in the nozzle unit has a supply-side opening (210) that is disposed coaxially with the rotational centerline (306) at an end of the channel on the side communicating with the liquid material supply source.

3. The nozzle rotation mechanism according to claim 2, further comprising a connection pipe (501) connected to the supply-side opening, and a connection pipe fixing member (502), which is disposed on the

base member away from the nozzle unit and which fixedly holds the connection pipe.

4. The nozzle rotation mechanism according to claim 3, wherein the connection pipe (501) is substantially linear in shape and has a projection (503) for direct coupling to the liquid material supply source.

5. The nozzle rotation mechanism according to any one of claims 1 to 4, further comprising a rotational position detecting mechanism that includes a detection member disposed on the nozzle unit and a sensor unit disposed on the base member.

6. The nozzle rotation mechanism according to claim 5, wherein the detection member is disposed at a position opposite to the nozzle with the rotational centerline (306) interposed therebetween.

7. The nozzle rotation mechanism according to any one of claims 1 to 6, wherein the nozzle is disposed such that the discharge outlet is tilted toward the rotational centerline (306) and is positioned below the nozzle unit inside an outer periphery thereof.

8. An application device comprising the nozzle rotation mechanism according to any one of claims 1 to 7, a relatively moving mechanism for moving the nozzle rotation mechanism and an application object relative to each other, a liquid material supply source, and a control device.