A spin-coating device comprises a turntable for concentrically supporting a substrate; a spindle motor for rotating the turntable about a central axis thereof and connected via a rotating shaft thereto; a supply mechanism for feeding and dripping a fluid coating material onto the substrate; and a holding mechanism for maintaining that the central axis of rotation of the turntable carrying the substrate is placed to be inclined at a predetermined angle with respect to a gravitational direction while the fluid coating material is dripped onto the rotating substrate.

4 Claims, 5 Drawing Sheets