

device further comprises a push-button switch that is manipulated when the shaft is moved in the axial direction, and a printed wiring board that is mounted with the push-button switch.

**8.** The haptic-sense-generation input device according to claim 4, further comprising an illumination lamp mounted on a printed wiring board, for illuminating the manipulation knob.

**9.** The haptic-sense-generation input device according to claim 7, further comprising an illumination lamp mounted on a printed wiring board, for illuminating the manipulation knob, wherein the printed wiring board is a single printed wiring board that is mounted with the push-button switch, the illumination lamp, and the rotation detecting means.

**10.** The haptic-sense-generation input device according to claim 1, wherein the rotation detecting means is a light transmission type encoder.

**11.** The haptic-sense-generation input device according to claim 4, further comprising a fourth gear that is engaged with the internal gear.

**12.** The haptic-sense-generation input device according to claim 11, wherein the second gear, the third gear, and the fourth gear are located at respective apices of an equilateral triangle.

**13.** The haptic-sense-generation input device according to claim 3, wherein the shaft is movable in an axial direction

thereof, and wherein the haptic-sense-generation input device further comprises a push-button switch that is manipulated when the shaft is moved in the axial direction, and a printed wiring board that is mounted with the push-button switch.

**14.** The haptic-sense-generation input device according to claim 8, wherein the shaft is movable in an axial direction thereof, wherein the haptic-sense-generation input device further comprises a push-button switch that is manipulated when the shaft is moved in the axial direction, and wherein the printed wiring board is a single printed wiring board that is mounted with the push-button switch, the illumination lamp, and the rotation detecting means.

**15.** The haptic-sense-generation input device according to claim 3, wherein the rotation detecting means is a light transmission type encoder.

**16.** The haptic-sense-generation input device according to claim 12, wherein the rotation detecting means is a light transmission type encoder.

**17.** The haptic-sense-generation input device according to claim 14, wherein the rotation detecting means is a light transmission type encoder.

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