CLAIMS

1. A processing apparatus for an electronic component (1, 1A, 1B) comprising:

a component holder (12) configured to hold an electronic component (W);

a turning unit (14) configured to hold the component holder (12) toward an outside of a predetermined circular track (CR, CR1, CR2);

a turning drive unit (16) configured to turn the turning unit (14) around a first axis (Ax1, Ax12) along a central axis of the circular track (CR, CR1, CR2); ~~and~~

a rotation drive unit (18) provided on the turning unit (14) and configured to rotate the component holder (12) around a second axis (Ax2) along a radial direction of the circular track (CR, CR1, CR2)~~.~~; and

a posture detection unit (110) arranged to be apart from the turning unit (14) so that the posture detection unit (110) does not move with a turning of the turning unit (14), and configured to detect an inclination of the component holder (12) around the second axis (Ax2) by acquiring information of an outer shape of the component holder (12) based on light irradiated on the component holder (12).

2. The processing apparatus (1, 1A, 1B) according to claim 1, wherein the turning drive unit (16) is configured to turn the turning unit (14) around the first axis (Ax1, Ax12) so that the component holder (12) repeats moving and stopping along the circular track (CR, CR1, CR2), and

wherein the posture detection unit (110) is configured to detect the inclination of the component holder (12) around the second axis (Ax2) at a stop position (SP) where the component holder (12) stops in a path in the circular track (CR, CR1, CR2) in which the component holder (12) in a state of not holding the electronic component (W) passes.

3. The processing apparatus (1, 1A, 1B) according to claim 1 or 2, wherein the posture detection unit (110) is configured to detect the inclination of the component holder (12) around the second axis (Ax2) based on received light after irradiating a surface of the component holder (12) with light, the surface of the component holder (12) being a surface which is not held by the turning unit (14) and which is different from a surface facing toward the outside of the circular track (CR, CR1, CR2).

4. The processing apparatus (1, 1A, 1B) according to claim 1 or 2, wherein the posture detection unit (110) is configured to detect the inclination of the component holder (12) around the second axis (Ax2) by capturing a surface of the component holder (12) which is not held by the turning unit (14).

~~2.~~5. The processing apparatus (1, 1A, 1B) according to ~~claim 1~~ any one of claims 1 to 4, further comprising:

a container holder (32, 62) configured to hold a container (42, 72) that stores the electronic component (W) supplied to the component holder (12) such that the container (42, 72) faces the component holder (12); and

a position adjuster (34, 64) configured to change a position of the container holder (32, 62) along a plane intersecting a direction in which the container (42, 72) and the component holder (12) face each other.

~~3.~~ 6. The processing apparatus (1, 1A, 1B) according to claim ~~2~~ 5, further comprising:

a storage state detection unit (120) configured to detect a storage state of the electronic component (W) stored in the container (42, 72).

~~4. The processing apparatus according to any one of claims 1 to 3, further comprising:~~

~~a posture detection unit configured to detect an inclination of the component holder around the second axis.~~

~~5. The processing apparatus according to any one of claims 1 to 4, further comprising:~~

~~a second container holder configured to hold a second container that stores the electronic component collected from the component holder such that the second container faces the component holder; and~~

~~a second position adjuster configured to change a position of the second container holder along a plane intersecting a direction in which the second container and the component holder face each other.~~

~~6. The processing apparatus according to claim 5, further comprising:~~

~~a holding state detection unit configured to detect a holding state of the electronic component held by the component holder; and~~

~~a region detection unit configured to detect a region in which the electronic component is to be stored in the second container.~~

7. The processing apparatus (1, 1A. 1B) according to any one of claims 1 to 6, further comprising:

an advance and retract driving portion (28a, 28b) configured to move both the component holder (12) and the rotation drive unit (18) along the radial direction of the circular track (CR, CR1, CR2).