CLAIMS

1. A workpiece positioning mechanism comprising:

a tray on which a workpiece is placed;

a frame in which a notch defining a height position of the tray positioned in an inspection region is formed;

a plurality of pins that are provided on the frame and position the tray; and

a bias applier that positions the tray in the inspection region by biasing a bottom surface,

wherein each of the plurality of pins is composed of:

a body portion that is connected to the frame, has a side circumferential surface having a constant outer diameter, and defines a planar position of the tray by abutting against a periphery of the tray with the side circumferential surface; and

a tapered portion that has a conical surface formed by narrowing an outer diameter from the body portion toward a tip and guides the tray to the inspection region by making the conical surface slide into contact with the periphery of the tray.

2. The workpiece positioning mechanism according to claim 1, further comprising a mover on which the tray released from bias is placed, wherein:

the inspection region is composed of a first inspection region and a second inspection region that are adjacent to each other; and

the mover is configured to guide the tray from the first inspection region to the second inspection region.

3. A workpiece inspection apparatus comprising:

the workpiece positioning mechanism according to claim 1;

an inspection device that inspects the workpiece in the inspection region;

a housing that accommodates the inspection device; and

a stage that displaces the housing by a same interval as an arrangement interval between workpieces on the tray.

4. A workpiece inspection apparatus comprising:

the workpiece positioning mechanism according to claim 2;

a first inspection device that inspects the workpiece in the first inspection region;

a second inspection device that inspects the workpiece in the second inspection region;

a housing that accommodates the first inspection device and the second inspection device at a same

arrangement interval as an arrangement interval between the first inspection region and the second inspection region; and

a stage that displaces the housing by a same interval as an arrangement interval between workpieces on the tray.