ABSTRACT

It is possible to improve the inter-plane/in-plane uniformity of a film formed on a substrate. There is provided that includes a substrate holder configured to arrange and hold substrates; and a reaction tube in which the substrate holder is accommodated. The substrate holder includes a plurality of pillars installed around the arranged substrates and extending in a direction substantially perpendicular to the substrates, a top plate configured to fix one ends of the pillars to each other and having an opening at a center of the top plate, and a bottom plate configured to fix other ends of the pillars to each other. The reaction tube includes a protrusion protruding inward. The protrusion is installed to be inserted into the opening of the top plate in a state where the substrate holder is accommodated in the reaction tube, and is configured to be closer to a substrate arranged closest to the top plate of the substrate holder than the top plate.

FIG. 2