

Summary

It is an object of the present invention to provide a rotation type silicon wafer cleaning device to further raise the stability of a silicon wafer by providing a better hydrogen termination on the silicon wafer after completion of chemical
5 and pure water cleaning treatments.

According to the present invention, a rotation type silicon wafer cleaning device has a silicon wafer support/rotation driving mechanism inside the case body for cleaning the silicon wafer at the post chemical cleaning with pure water, having a silicon wafer drying device comprising a gas supply panel
10 attached to the case body to supply a mixed gas of the hydrogen gas and inert gas containing a hydrogen gas of more than 0.05%, a mixed gas supply pipe coupled to a gas mixer of the afore-mentioned gas supply panel at one end, a mixed gas heating device to heat the mixed gas in the afore-mentioned mixed gas supply pipe, and a hydrogen radical formation apparatus equipped with a
15 platinum coating film to form hydrogen radical at the gas contacting part whereto a high temperature gas heated with the afore-mentioned mixed gas heating device touches, thus to gush out the mixed gas containing hydrogen radical formed with the afore-mentioned radical formation apparatus onto the rotating silicon wafer after cleaning is completed so that drying and hydrogen
20 termination treatments are performed on the outer surface of the silicon wafer.



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