

ABSTRACT

A nozzle cleaning device and a nozzle cleaning method for a coating and developing apparatus, the nozzle cleaning device comprising: a cleaning tank (31), for containing a cleaning liquid; a vibration generator (32), for providing vibration waves to the cleaning tank (31); and a temperature control unit, for controlling the temperature of the cleaning liquid, configured to heat the cleaning liquid first and then cool the cleaning liquid during a nozzle cleaning process; wherein the nozzle cleaning device and the nozzle cleaning method for the coating and developing apparatus combine vibration control and temperature control to control the vibration and temperature of the cleaning liquid during the cleaning process, such that the cleaning liquid is first rapidly heated and then rapidly cooled while being vibrated. The heating reduces the adhesion of contaminants on a nozzle to assist the cleaning effect brought by vibration, and the cooling causes contaminants stubbornly attached to the nozzle surface to shrink again, further weakening the adhesion of contaminants and thereby causing contaminants to detach.