REAGENT SPLITTING/DISPENSING METHOD BASED ON REAGENT DISPENSING NOZZLE AND REAGENT SPLITTING/DISPENSING MECHANISM

ABSTRACT

The present invention provides a reagent splitting/dispensing method that can prevent contamination of an operation fluid when a reagent dispensing nozzle is in a waiting state and prevent falling of a droplet. The reagent splitting/dispensing method includes a waiting process of disposing a first air layer between an interface of the operation fluid and a nozzle tip end in the reagent dispensing nozzle, a first moving process of moving the reagent dispensing nozzle to the position right above the reagent, a second moving process of depositing the nozzle tip end in the reagent, a reagent splitting process of filling the reagent into the reagent dispensing nozzle, a third moving process of evacuating the tip end of the reagent dispensing nozzle from the reagent, a reagent protecting process of disposing a second air layer in the nozzle tip end, a fourth moving process of moving the reagent dispensing nozzle to the reagent dispensation position, a reagent dispensing process of ejecting the split reagent, an operation fluid protecting process of disposing the first air layer in the nozzle tip end, after dispensing the reagent, and a fifth moving process of evacuating the reagent dispensing nozzle to the waiting position, in a state where the first air layer is disposed in the nozzle tip end.

Fig. 7