

ABSTRACT

Provided are a double-sided coating apparatus and a method for double-sided coating with a coating solution configured to uniformly apply a coating solution to both surfaces of a substrate having a central opening in a simple process while preventing ingress of the coating solution to the central opening. A coating apparatus 1 according to the invention applies a coating solution to both main surfaces of a substrate 2 having a central opening 2a. The coating apparatus 1 includes: a rotation driving mechanism 3 with a chuck 11 which holds the substrate 2 by blocking the central opening 2a; a first coating solution nozzle 18 which ejects a coating solution to a first main surface of the substrate 2; a first pivot driving mechanism 17 which operates the first coating solution nozzle 18 to move to scan the first main surface of the substrate 2; a second coating solution nozzle 28 which ejects the coating solution to a second main surface of the substrate 2; a second pivot driving mechanism 31 which operates the second coating solution nozzle 28 to move to scan the second main surface of the substrate 3, and a device to independently control an ejection amount of the coating solution from the first coating solution ejection port 23 and an ejection amount of the coating solution from the second coating solution ejection port 29.



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