CLAIMS

1. A substrate holding device comprising:

a suctioning member capable of suctioning and holding a front surface or a back surface of a substrate,

a position determiner capable of pushing the substrate in contact with a side surface of the substrate, and positioning the suctioned substrate, and

a driver that enables the position determiner to come in contact with the side surface of the substrate, wherein the driver brings the position determiner into contact with the side surface of the substrate, and the position determiner thereby positions the substrate,

wherein a first portion of the driver is capable of coming in contact with the substrate,

when the suctioning member suctions the front surface or the back surface of the substrate, the first portion comes in contact with the substrate, to apply a force to the driver, and the driver is movable, and

when the driver moves, a second portion of the driver enables the position determiner to come in contact with the side surface of the substrate and to push the substrate.

2. A substrate holding device comprising:

a suctioning member capable of suctioning and holding a front surface or a back surface of a substrate,

a position determiner capable of pushing the substrate in contact with a side surface of the substrate, and positioning the suctioned substrate, and

a driver that enables the position determiner to come in contact with the side surface of the substrate, wherein the driver brings the position determiner into contact with the side surface of the substrate, and the position determiner thereby positions the substrate,

wherein a second portion of the driver is attached to the driver via an elastic body.

3. The substrate holding device according to claim 2, wherein a first portion of the driver is capable of coming in contact with the substrate,

when the suctioning member suctions the front surface or the back surface of the substrate, the first portion comes in contact with the substrate, to apply a force to the driver, and the driver is movable, and

when the driver moves, the second portion of the driver enables the position determiner to come in contact with the side surface of the substrate and to push the substrate.

4. The substrate holding device according to claim 1 or 3, wherein the driver has a rod shape, the first portion is one end of the rod shape, the second portion is the other end of the rod shape,

the position determiner includes a first component contactable with the second portion, and a second component contactable with the side surface of the substrate,

when the first portion of the driver comes in contact with the substrate and the driver moves, the second portion of the driver moves the first component of the position determiner, and

when the first component of the position determiner moves, the second component of the position determiner moves to come in contact with the side surface of the substrate.

5. The substrate holding device according to any one of claims 1 to 4, wherein the suctioning member is Bernoulli suctioning member that jets a gas to the front surface or the back surface of the substrate and thereby suctions the front surface or the back surface of the substrate that receives the jetted gas.

6. The substrate holding device according to any one of claims 1 to 5, wherein the substrate is rectangular.

7. The substrate holding device according to any one of claims 1 to 6, comprising a measuring sensor that measures a position of the substrate.

8. The substrate holding device according to any one of claims 1 to 7, wherein the holdable substrate has a quadrangular shape, a contact portion when the position determiner comes in contact with the substrate is present on a side of the quadrangular shape, and

the contact portion is present within 1/4 of a length from a vertex of the quadrangular shape to the side on which the contact portion is present.

9. An electroplating apparatus comprising:

a transporter that transfers the substrate,

a substrate attaching/detaching device that attaches and detaches the substrate to and from a substrate holder to hold the substrate, and

an electroplating treatment module that receives the substrate holder holding the substrate in the substrate attaching/detaching device, to subject the substrate to an electroplating treatment, wherein the transporter includes the substrate holding device according to any one of claims 1 to 8, and transfers the substrate to the substrate attaching/detaching device or from the substrate attaching/detaching device.

10. A storage medium that stores a program to allow a computer to execute a control method of a substrate holding device capable of suctioning and holding a front surface or a back surface of a substrate,

the storage medium storing a program to allow the computer to:

by a suctioning member, suction and hold the front surface or the back surface of the substrate; and

by a driver, bring, into contact with a side surface of the substrate, a position determiner capable of pushing the substrate in contact with the side surface of the substrate, and positioning the suctioned substrate,

wherein a first portion of the driver is capable of coming in contact with the substrate,

when the suctioning member suctions the front surface or the back surface of the substrate, the first portion comes in contact with the substrate, to apply a force to the driver, and the driver is movable, and

when the driver moves, a second portion of the driver enables the position determiner to come in contact with the side surface of the substrate and to push the substrate.

11. A storage medium that stores a program to allow a computer to execute a control method of a substrate holding device capable of suctioning and holding a front surface or a back surface of a substrate,

the storage medium storing a program to allow the computer to:

by a suctioning member, suction and hold the front surface or the back surface of the substrate; and

by a driver, bring, into contact with a side surface of the substrate, a position determiner capable of pushing the substrate in contact with the side surface of the substrate, and positioning the suctioned substrate,

wherein a second portion of the driver is attached to the driver via an elastic body.