# CLAIMS

1. A method for manufacturing a magnetic-disk glass substrate, comprising:

cleaning processing for cleaning a surface of the glass substrate; and

drying processing for drying the surface after the cleaning processing,

wherein the cleaning processing includes first liquid treatment in which the glass substrate is immersed in a first liquid containing water and a water-soluble solvent having a boiling point lower than that of water;

the drying processing is processing in which the glass substrate is disposed in vapor of a second liquid containing water and the water-soluble solvent having a boiling point lower than that of water, at least a portion of droplets on the glass substrate are allowed to drip from the glass substrate while droplets are allowed to form on the surface of the glass substrate, and the glass substrate is dried;

the first liquid contains the water-soluble solvent as a main component, and water in an amount of 3.0 wt% or more; and

a water content of the second liquid is lower than a water content of the first liquid.

2. The method for manufacturing a magnetic-disk glass substrate according to claim 1, wherein

the water content of the second liquid is more than 1.0 wt%.

3. A method for manufacturing a magnetic-disk glass substrate, comprising:

cleaning processing for cleaning a surface of the glass substrate; and

drying processing for drying the surface after the cleaning processing,

wherein the cleaning processing includes first liquid treatment in which the glass substrate is immersed in a first liquid containing water and a water-

soluble solvent having a boiling point lower than that of water;

the drying processing includes disposing the glass substrate in vapor of a second liquid containing water and the water-soluble solvent having a boiling point lower than that of water, and allowing a portion of droplets on the glass substrate to drip from the glass substrate while allowing droplets to form on the surface of the glass substrate;

a water content of the first liquid is higher than a water content of the second liquid; and

the second liquid contains the water-soluble solvent as a main component, and the water in an amount of more than 1.0 wt%.

4. The method for manufacturing a magnetic-disk glass substrate according to any one of claims 1 to 3, wherein

the glass substrate contains an alkali metal component, and

the cleaning processing includes water treatment in which the surface is cleaned by immersing the glass substrate in water having a temperature of 40°C or more and 50°C or less.

5. The method for manufacturing a magnetic-disk glass substrate according to claim 4, wherein

the glass substrate undergoes processing in the order of the water treatment, the first liquid treatment, and the drying processing.

6. The method for manufacturing a magnetic-disk glass substrate according to any one of claims 1 to 5, wherein

the water-soluble solvent is isopropyl alcohol.

7. The method for manufacturing a magnetic-disk glass substrate according to any one of claims 1 to 6, wherein

a total content of alkali metal components in the glass substrate is 22.0

mol% or less in terms of oxides.

8. A method for manufacturing a magnetic-disk, comprising:

manufacturing a magnetic-disk glass substrate according to any one of claims 1 to 7; and

stacking a magnetic layer on a surface of the magnetic-disk glass substrate.

9. A cleaning apparatus for a glass substrate, comprising:

an cleaning tank storing a first liquid in which the glass substrate is immersed, the first liquid containing water and a water-soluble solvent having a boiling point lower than that of water; and

a dry processing tank storing a second liquid containing water and the water-soluble solvent having a boiling point lower than that of water, and vapor of the second liquid in a space above the second liquid;

wherein the space of the dry processing tank is configured to allow at least a portion of droplets on the glass substrate to drip from the glass substrate subjected to immersion in the first liquid while allow droplets to form on the surface of the glass substrate by disposing the glass substrate in the vapor of the second liquid for drying the glass substrate,

the first liquid contains the water-soluble solvent as a main component, and water in an amount of 3.0 wt% or more; and

a water content of the second liquid is lower than a water content of the first liquid.

10. The cleaning apparatus according to claim 9, wherein the water content of the second liquid is more than 1.0 wt%.

11. A cleaning apparatus for a glass substrate, comprising:

an cleaning tank storing a first liquid in which the glass substrate is

immersed, the first liquid containing water and a water-soluble solvent having a boiling point lower than that of water; and

a dry processing tank storing a second liquid containing water and the water-soluble solvent having a boiling point lower than that of water, and vapor of the second liquid in a space above the second liquid;

wherein the space of the dry processing tank is configured to allow at least a portion of droplets on the glass substrate to drip from the glass substrate subjected to immersion in the first liquid while allow droplets to form on the surface of the glass substrate by disposing the glass substrate in the vapor of the second liquid for drying the glass substrate,

a water content of the first liquid is higher than a water content of the second liquid, and

the second liquid contains the water-soluble solvent as a main component, and the water in an amount of more than 1.0 wt%.

12. The cleaning apparatus according to any one of claims 9 to11, further comprising a water cleaning tank storing water in which the glass substrate is immersed, the water having a temperature of 40°C or more and 50°C or less.

13. The cleaning apparatus according to claim 12, wherein

cleaning processing in the cleaning tank storing the first liquid is performed to the glass substrate subjected to immersion in the water of the water cleaning tank.

14. The cleaning apparatus according to any one of claims 9 to 13, wherein the water-soluble solvent is isopropyl alcohol.

15. The cleaning apparatus according to any one of claims 9 to 14, wherein the glass substrate is a magnetic-disk glass substrate.