CLAIMS

[Claim 1]

A liquid material supplying apparatus for a gypsum plate for supplying a liquid material to a covering material of a gypsum plate, the liquid material supplying apparatus comprising:

a liquid material supply pipe configured to supply the liquid material;

a displacement device configured to displace a position of the liquid material supply pipe;

an edge detection device configured to detect a position of an edge of the covering material in a width direction; and

a controller configured to displace, by the displacement device, the position of the liquid material supply pipe according to the position of the edge of the covering material in the width direction detected by the edge detection device.

[Claim 2]

The liquid material supplying apparatus for the gypsum plate according to claim 1, wherein

the edge detection device includes a first laser sensor and a second laser sensor arranged along the width direction of the covering material, and

when the covering material is positioned at a light projection position of the first laser sensor and the covering material is not positioned at a light projection position of the second laser sensor, the controller is configured to displace, by

the displacement device, the position of the liquid material supply pipe according to the position of the edge of the covering material in the width direction.

[Claim 3]

The liquid material supplying apparatus for the gypsum plate according to claim 2, further comprising a support to which the liquid material supply pipe and the edge detection device are fixed, wherein

the displacement device is configured to displace the position of the liquid material supply pipe and a position of the edge detection device by displacing a position of the support along the width direction of the covering material, and

the controller is configured to displace, by the displacement device, the position of the support such that the covering material is positioned at the light projection position of the first laser sensor and that the covering material is not positioned at the light projection position of the second laser sensor.

[Claim 4]

The liquid material supplying apparatus for the gypsum plate according to any one of claims 1 to 3, wherein the liquid material supply pipe is provided for each of both edges of the covering material in the width direction.

[Claim 5]

The liquid material supplying apparatus for the gypsum plate according to any one of claims 1 to 3, wherein

the edge detection device is configured to detect a position of one of both edges of the covering material in the width direction, and

the displacement device is configured to displace a position of the liquid material supply pipe provided for the one of the both edges of the covering material in the width direction.

[Claim 6]

A gypsum plate manufacturing apparatus comprising the liquid material supplying apparatus for the gypsum plate of any one of claims 1 to 3.

[Claim 7]

A method of manufacturing a gypsum plate, the method comprising:

a liquid material supply process of supplying, by the liquid material supplying apparatus for the gypsum plate of any one of claims 1 to 3, the liquid material to the covering material.