unit that can heat the cleaning liquid 11 may be used.

The material of the dispense head 6 preferably has heat resistance in order to dispense the heated cleaning liquid 11, and metal or a heat-resistant resin is preferably used.

[0026] The coating removing equipment 101 includes a hot-air generator 13 as a unit of heating the coated film 2 and the nozzles 14 connected to the hot-air generator 13. By raising the temperature of the coated film 2 to 40°C or higher with hot air, the cleaning liquid 11 supplied to the coating surface quickly dissolves the water-soluble resin contained in the coating film, and the coating film can be more efficiently removed off. As the unit of heating the coated film 2, any unit may be used. For example, the coated film 2 may be brought into direct contact with a heating roll, or an infrared heater may be installed in the booth 8 for the heating, although the heating unit is not limited to these.

[0027] The booth 8 of the removing equipment 101 is provided so as to enclose the area from the dispense head 6 to the removing equipment 7 to prevent the cleaning liquid 11 in the form of droplets from dispersing around the area and to prevent the temperature of the heated cleaning liquid and/or the coated film 2 from decreasing. The material of the booth 8 preferably has heat resistance because the temperature inside the booth 8 becomes high, and metal or glass, for example, is preferably used.

[0028] In the removing equipment 101 according to the embodiment of the present invention, as the removing equipment 7, a metal plate with a sharp tip that comes into direct contact with the coated film 2 being conveyed is provided, but the removing equipment is not limited to this. A resin plate with a sharp tip may be provided, or a

Claims

1. A method for removing a coating film from a coated film including a coating film containing a water-soluble resin on at least one side of a base film, the method comprising:

supplying a cleaning liquid in a form of droplets to a surface of the coating film, and retaining the cleaning liquid in the form of droplets on the surface of the coating film; and

subsequently removing the coating film containing the cleaning liquid from the coated film.

2. The method for removing a coating film from a coated film according to claim 1, wherein a method of supplying the cleaning liquid is a method other than a steam injection.[1]

3. The method for removing a coating film from a coated film according to claim 1 or 2, wherein the cleaning liquid is supplied to the surface of the coating film while being heated to 40°C or higher.

4. The method for removing a coating film from a coated film according to any one of claims 1 to 3, wherein the coated film is heated to 40°C or higher.

5. The method for removing a coating film from a coated film according to any one of claims 1 to 4, wherein the coating film contains a curable silicone resin.

6. The method for removing a coating film from a coated film according to any one of claims 1 to 5, wherein the cleaning liquid is water.

7. The method for removing a coating film from a coated film according to any one of claims 1 to 6, wherein a diameter of the droplets of the cleaning liquid is 1 mm or less.

8. An equipment for removing a coating film from a coated film including a coating film containing a water-soluble resin on at least one side of a base film, the equipment comprising:

a cleaning-liquid supplying mechanism configured to dispense a cleaning liquid in a form of droplets toward a surface of the coating film such that the cleaning liquid is able to be retained in the form of droplets on the surface of the coating film; and

a removing mechanism configured to remove the coating film containing the cleaning liquid from the coated film in which the cleaning liquid has been supplied to the surface of the coating film.

9. The equipment for removing a coating film from a coated film according to claim 8, wherein the cleaning-liquid supplying mechanism is a mechanism other than a steam injection.[2]

10. The equipment for removing a coating film from a coated film according to claim 8 or 9, wherein the cleaning-liquid supplying mechanism includes a unit

configured to heat the cleaning liquid.

11. The equipment for removing a coating film from a coated film according to any one of claims 8 to 10, further comprising a unit configured to heat the coated film.