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(54)Method of modifying surface layer of molded resin

A modification method of the surface layer of a molded resin article which comprises the steps of: placing, in a first closed space, an organic compound having sublimation properties and an affinity for a resin of a molded resin article to be coated;

on the other hand, placing the molded resin article in a second closed space;

controlling a temperature in the second closed space so as to be equal to or higher than the temperature in the first closed space; bringing a pressure in the first closed

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space to a saturated sublimation pressure state of the organic compound;

controlling a pressure in the second closed space so as to be equal to or lower than the pressure in the first closed space;

subsequently, connecting the first closed space to the second closed space to form a third closed space in which the first closed space is combined with the second closed space, and further controlling the temperature and the pressure so that the whole of the third closed space may

be in the saturated sublimation pressure state of the organic compound;

allowing a vapor of the organic compound with which the first closed space before the connection is filled to diffuse into the second closed space before the connection; uniformly depositing the vapor of the organic compound on the surface of the molded resin article; and allowing the deposited organic compound to penetrate/ disperse from the surface of the molded resin article into its inside.