

ABSTRACT OF THE DISCLOSURE

While steam is supplied to flow channels to heat inner cavity surfaces to a temperature equal to or higher than the heat distortion temperature of a molding resin, the resin mixed with a supercritical fluid is injected from an injection molding machine into a mold cavity. When the injection of a predetermined quantity of the resin is completed, the supply of the steam to the flow channels is stopped, and cooling water starts to be supplied to the flow channels. The inner cavity surfaces are thus quickly switched from a heated state to a cooled state, cooling and solidifying the resin into a molded product of good appearance which is free of broken cell marks on its surface.