Claims

1. An apparatus for producing at least one container product from plastic material, which is molded by a molding device (1), provided with a predeterminable container content by means of a filling device, and sealed by a sealing device, wherein the respective finished manufactured container product is supplied to a post-treatment zone in which the temperature-influencing effect is exerted to the respective container product and/or the respective container contents, charcterized in that the molding device (1) has individual molding parts (7), which can be moved toward and away from one another in pairs to close or open a manufacturing mold in which the respective container product is molded, provided with a container content, and sealed.

2. The apparatus according to claim 1, charcterized in that the post-treatment zone allows convective cooling of the container product, preferably of at least 20 seconds duration, during which at least approximately the same orientation is maintained for the container product as during filling of the container.

3. The apparatus according to claim 1 or 2, charcterized in that, in the post-treatment zone, at least one tempering device is provided as a post-treatment devince (4), in particular in the form of a cooling device.

4. The apparatus according to claim 1 or 2, charcterized in that the dwell time for the container product in the sealed production state is set to be less than 7 seconds.

5. The apparatus according to one of the preceding claims, charcterized in that the post-treatment device (4) includes an apparatus (6) for generating a cooling air flos for at least acting upon the respective container product.

6. The apparatus according to claim 4, charcterized in that the post-treatment device includes a flow guide device for generating a direct air flow (20, 22) of compressed cooling air.

7. The apparatus according to one of the preceding claims, charcterized in that the post-treatment device (4) includes a type of cooling tunnel (51) having a passage (52) for the passage of the respective container product and having tunnel walls (53) at least partially defining the passage (52), which may be cooled by means of a cooling medium flowing through the walls (53).

8. The apparatus according to one of the preceding claims, charcterized in that the post-treatment device (4) includes a freezer device, for example in the form of a basin with flowing liquid nitrogen or liquid air.

9. The apparatus according to one of the preceding claims, charcterized in that the post-treatment device (4) has a conveyor device (61) effecting the advancing of the container products, having conveyor elements (65, 67, 71, 73) acting on the container products, wherein the conveying elements (65, 67, 71, 73) can be cooled by means of a coolant flow flowing through them.

10. The apparatus according to one of the preceding claims, charcterized in that the post-treatment device (4) exerts a cooling effect on the container products, which have at least approximately the same orientation over the duration of the post treatment.

11. A method for producing blow-molded and filled container products made of plastic material by means of a molding device (1), having individual molding parts (7), which can be moved towards and away from one another in pairs to close or open a manufacturing mold in which the respective container product is molded, provided with a container content, and sealed, characterized in that, after an exit point (2) of the respective container product from the molding device (1), it is supplied to a post-treatment zone in which the respective container product and/or on the respective container contents are subjected to a temperature-influencing effect.

12. The method according to claim 11, characterized in that, in the post-treatment zone, convective cooling of the container product of preferably at least 20 seconds duration is carried out during which at least approximately the same orientation is maintained for the container product as during filling of the container.

13. The method according to claim 11 or 12, characterized in that, in the post-treatment zone, at least one tempering device is provided as a post-treatment device (4), in particular in the form of a cooling device.

14. The method according to one of the claims 11 or 13, characterized in that the dwell time in the sealed manufacturing state for the container product is set to be less than 7 seconds.