

- 1 -

Sweet-toy**DESCRIPTION**

The invention relates to a sweet-toy comprising a plurality of poured slices or disc-shaped parts made of fruit gum and/or foam mass which substantially arranged in parallel adjacent to each other and which are kept in position pressed against one another by means of a cover in particular a transparent packaging in their final packaging for sales purposes.

The Applicant's European patent 0 349 841 discloses a sweet-toy with the features of the generic term of claim 1. This known sweet-toy consists of individual, separate layers, the uppermost and the lowermost layers consist of a foamed sugar member having a rounded shape and intermediate layers consist of fruit gum layers and the like.

As further prior art sweets of a mixture of different sweet masses are known, of which one is a fruit gum and the other a foamed sugar mass. For example ornaments or decorations made of foamed sugar are applied to flat fruit gum poured sweets; in contrast there are large surface foamed sugar mass sweets to which fruit gum is applied. In the case of this prior art the foamed sugar mass is either poured onto the fruit gum mass or vice versa.

The invention is based on the object of simplifying a sweet-toy with the features of claim 1, which is comparatively difficult to produce, without losing the pleasant optical impression. This object is solved by the characterizing features of claim 1, advantageous further developments of the invention are resulting from the subclaims.

The core of the invention is regarded as being the fact to offer a sweet-toy, which consists at least of four in particular, however, of five layers whereas in each case two

layers are joined to one another inseparably by the production-pouring-process. The individual parts similar to slices or the like produced thus are then placed adjacent to each other in a way that intermediate layers or parts are surrounded by two outer foam layers. Placed thus the two or three individual parts are wrapped and in this way fixed to one another by the packaging as is already known. The invention is based on the finding that in the case of the known sweet-toy of the prior art part of the production costs occur, because lots of individual parts have to be put together and have to be wrapped in this position. By means of the invention the number of individual parts is lowered considerably and assembly of the individual parts is simpler, quicker and more cost effective.

In particular the sweet-toy is to be formed such that the intermediate layers surrounded by the outer layers of foamed sugar are made alternately of fruit gum and foam layers. Thereby a sweet-toy having especially extensive variants is created that encourages children to fill the sweet again and again and thus vary the sequence of the sweet virtually imitating a hamburger or a filled roll. Despite the simplified production this can be done by simply turning over the double layers.

Further subclaims concern advantageous and optically appealing embodiments of the sweet-toy.

Claims 14 and 15 relate to a production process of such a sweet-toy, which in contrast to conventional process costs can be carried out at a reasonable price.

The invention will be described in further detail by way of the examples shown in the drawings, in which:

Fig. 1 shows a sweet-toy with five layers in a pulled apart position (partial fig. a) and in wrapped position (partial fig. b);

Fig. 2 shows a sweet-toy with five layers where two intermediate layers are poured together;

Fig. 3 shows a sweet-toy with six layers;

Fig. 4 shows a double layer part of a sweet-toy, where foam mass is poured onto a fish-shaped bottom part;

Fig. 5 shows a double layer part of a sweet-toy, where a disc-shaped foam mass is poured onto a rod-shaped base member;

Fig. 6 shows a considerably simplified illustration of the principle of the sweet-toy's production process according to the present invention or parts thereof.

The sweet-toy 1 illustrated in Fig. 1 consists of five layers (A - E), the layers A, B and the layers D, E are components of double layer parts (3, 4; 13, 14), the layer C is a single disc of foamed sugar. The diameter of the foamed sugar layers A, C and E project in radial direction over the diameters of the fruit gum layers B and D. With respect to the center line of the single layer slice 2 the double layer parts 3 and 4 are situated symmetrically opposite each other.

Fig. 2 also shows a sweet-toy 11 having five layers, however, here the middle part 12 and part 13 consist of double layers, whereas bottom part 14 only consists of one layer.

In its essential parts the embodiment illustrated in Fig. 3 is similar to that in Fig. 2 and also has the same reference numbers, however, the radius of the different layers is different to the radius of those in Fig. 2.

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Fig. 4 shows a round foamed sugar layer 31 which is poured onto a fish shaped fruit gum layer 30. Therefore the foamed sugar layer 31 freely projects over the upper and lower edge of the fruit gum layer 30. However, the head and tail end of the fish element shaped of the fruit gum layer 30 project over the periphery of the foamed sugar layer 31.

This pouring process is interesting insofar, as pouring of double layer parts is achieved in a pouring process immediately following one another, whereas a dome-shaped cap of foamed sugar having a bigger radius than the cross-section of the previously poured forms is poured onto the not yet cooled fruit gum mass. Therefore the spherical cap of foamed sugar projects over the stamped mold and lies - as is shown clearly in Fig. 6 - with its bottom sides 21 on the surface areas 20 of the base's cornflour layer adjacent to the mold 15 stamped in cornflour and hardens there.

The structure of the sweet toy illustrated in Fig. 5 essentially complies with that of Fig. 4, however, shape and dimension of the fruit gum layer 30 in Fig. 4 vary.

The cover embodied as transparent packaging 40 is only shown in Fig. 1 b. In order to keep the individual parts/layers of the sweet-toy in shape it is also employed in the case of the embodiments shown in figures 2 to 5.

Fig. 6 shows a considerably simplified illustration of the principle of the production, for example of the double layer middle part 12 of the sweet-toy in Fig. 2. Here, the sweet mass, for example fruit gum mass, is poured into a prepared pouring mold 15, which in the case of a sweet mass in the form of fruit gum can consist of compressed cornflour. Thus a sweet mass layer or, for example, fruit gum layer 30 is formed. In the following a second layer, in particular consisting of foam mass, is poured onto the freshly poured, in particular not yet cooled sweet mass of the first layer. Thus a second layer, for example foam layer 31, joined to the first layer, for example fruit gum layer 30, is formed. After cooling down of the joined parts the double layer member is powdered and

- 5 -

assembled into a sweet-toy having at least four layers by means of further double layer form members. After that the two double layer form members can be fixed by means of a transparent packaging 40 (see Fig. 1b). Foam layer 31 can be poured in the most different forms, for example shaped as a disc or a dome-shaped cap, and in the most different colors and/or tastes.



CLAIMS

1. Sweet-toy comprising a plurality of poured slices or disc-shaped parts made of fruit gum and/or foam mass, which substantially are arranged in parallel adjacent to each other and which are kept in position pressed against one another by means of a cover (transparent packaging) in their final packaging for sales purposes

characterized in that

the sweet-toy (1, 11) comprises at least four layers (A, B; D, E) altogether, whereas two layers (AB) and (DE) each are joined to each other inseparably by the production-pouring-process forming at least one outer foam layer A and a second foam layer E, each having a further layer (B, D), in particular a fruit gum layer, a double layer slice or a double layer disc-shaped part (3, 4).

2. Sweet-toy according to claim 1,

characterized in that

it consists of five layers (A - E) and three individual parts (2, 3, 4) or slices.

3. Sweet-toy according to claim 1 or 2,

characterized in that

the two outer layers (A, E) are foam layers and the intermediate layers (B, C, D) consist of fruit gum and foam layers, which are arranged alternately.





4. Sweet-toy according to any one of the preceding claims,

characterized in that

it comprises six layers, which are formed by three double layer slices (12, 13, 14) each of them consisting of foam and/or fruit gum.

5. Sweet-toy according to claim 1,

characterized in that

intermediate layers exclusively consist of fruit gum.

6. Sweet-toy according to claim 1,

characterized in that

intermediate layers exclusively consist of foam.

7. Sweet-toy according to any one of the preceding claims,

characterized in that

both of the outer layers (A, E) are identically colored and all intermediate layers have different colors which differ from the colours of the outer layers.





8. Sweet-toy according to any one of the preceding claims,

characterized in that

the outer layers (A, E) have the same taste and the tastes of the intermediate layers are different to them and differ from the taste of the outer layers.

9. Sweet-toy according to any one of the preceding claims,

characterized in that

all layers (A, E) have different colors.

10. Sweet-toy according to any one of the preceding claims,

characterized in that

both of the poured together layers (AB, DE) of the double layer slices (3, 4; 13, 14) or parts are of different shape/diameter, color and taste.

11. Sweet-toy according to any one of the preceding claims,

characterized in that

disc-shaped fruit gum layers (30) have a smaller diameter than the disc-shaped foam layers (31) joined with them by pouring.





12. Sweet-toy according to any one of the preceding claims,

characterized in that

at least one rod or sausage shaped fruit gum layer (30) is provided, which is poured together with a foam layer (31) such that the sausage or rod ends project over the diameter of the substantially circular-shaped or oval foam layer (31).

13. Sweet-toy according to any one of the preceding claims,

characterized in that

a fruit gum layer (30) shaped like a fish is poured together with a foam layer (31) having a round or oval cross-section.

14. Process for producing a sweet-toy

characterized by the following steps:

- a) stamping the pouring molds for a first layer of a sweet mass into a layer of compressed cornflour, in particular fruit gum mass,
- b) pouring sweet mass, in particular fruit gum mass, into the prepared pouring molds,
- c) pouring a second layer, in particular foam mass, onto the freshly poured, not yet cooled sweet mass of the first layer,
- d) powdering of the double-layer-members after their joint cooling,



- 10 -

- e) assembling of a plurality of double-layer-shaped members into a sweet-toy having at least four layers in such a way that each time at least two double layer-shaped-members are fixed to one another by means of a transparent packaging.

15. Process according to the preceding claim,

characterized in that

disc or dome-shaped foam members are poured onto shaped fruit gum members of different color, shape and taste and after having cooled down are assembled into a two-part member having four layers or a three-part member having five layers, such that the layers of different shape, dimension, color and/or taste alternate or lie opposite each other in a definite sequence (for example abcba, whereas every letter defines a layer of definite shape, color, taste and dimension).

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