

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 September 2002 (19.09.2002)

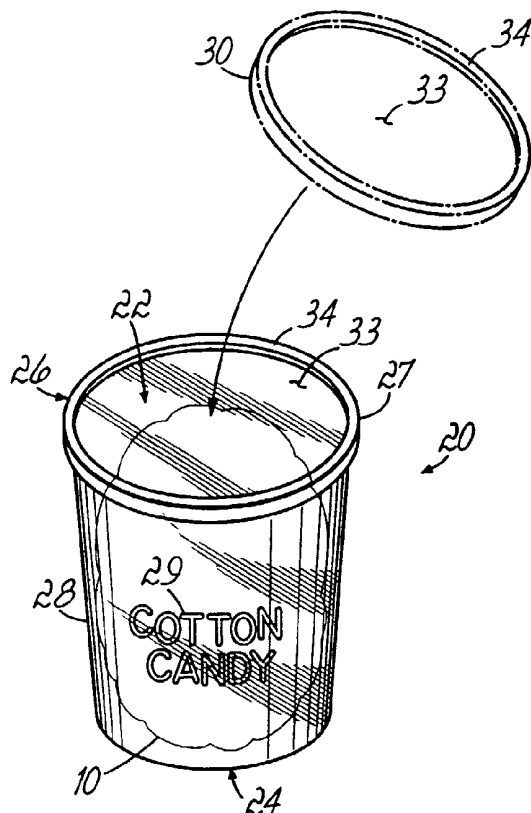
PCT

(10) International Publication Number
WO 02/071859 A2

- (51) International Patent Classification⁷: **A23G 3/10, 3/00**
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- (21) International Application Number: PCT/US02/05122
- (22) International Filing Date: 21 February 2002 (21.02.2002)
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/800,792 7 March 2001 (07.03.2001) US
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- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
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[Continued on next page]

(54) Title: IMPROVED COTTON CANDY MARKETING AND PACKAGING SYSTEM AND RELATED PRODUCT



(57) Abstract: A method and product for marketing and selling cotton candy (10) comprises forming cotton candy (10) from molten sugar to form a fluffy wad of cotton candy (10) and positioning the fluffy wad of cotton candy (10) in a rigid, sealed container (20) through an opening (22) in the container. The rigid container (20) defines a static volume which surrounds the cotton candy wad (10) and generally prevents the wad (10) from being easily compressed. The rigid container (20) is sealed with a lid (30) which covers the opening (22) in an airtight fashion and further defines a generally airtight static volume within the container (20) for surrounding the wad of cotton candy (10). The wad of cotton candy (10) in the rigid container (20) is presented for direct consumption by a consumer from the container (20).



Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

IMPROVED COTTON CANDY MARKETING AND PACKAGING SYSTEM AND RELATED PRODUCT

Field of the Invention

5 This invention relates generally to cotton candy and more particularly to an improved marketing and packaging system and product for presenting and selling cotton candy to a customer.

Background of the Invention

10 Cotton candy or candy floss is a favorite treat of many children and adults. Machines for turning granular sugar into sugar filaments or "cotton candy" are generally known and have been employed for some time in concession stands at various events, such as festivals, fairs, circuses, and sporting events. Generally, to make cotton candy, a cotton
15 candy machine heats sugar granules into molten sugar and then casts or spins the molten sugar into long, delicate fibers or strands using centrifugal force. The delicate candy fibers or strands are then directed into a collection basket where they cool and are gathered for sale and consumption.

Traditionally, cotton candy would be made fresh at the point of sale of the product, such as at an event. That is, cotton candy would be spun shortly before being sold to a consumer. After the molten sugar was spun or slung out of the spinner head of the machine, it would cool and solidify into delicate sugar strands and adhere to the inside of the collection basket. An operator or salesperson would then roll an end of a paper tube or stick around the basket and collect the delicate cotton candy strands into a large fluffy wad on the end of a conical tube. The finished product would then be sold and delivered directly to a customer, and would be torn or bitten from the tube and consumed, generally immediately.

While cotton candy has traditionally been made and sold fresh to the consumer, and in the past has primarily been associated with concession sales at periodic or seasonal events, such as fairs, circuses, and sporting events, the market for cotton candy and cotton candy products has evolved. One factor driving such evolution is that cotton candy consumers want to enjoy the treat year around. The desire and demand for cotton candy has therefore extended beyond the concessions at a seasonal or periodic event. As a result, cotton candy is now often made and sold all year at various indoor facilities, such as malls, candy stores, and other facilities where food concessions are offered.

At such facilities, as with seasonal concessions, cotton candy is still often made at the point of sale and delivered fresh to a consumer for immediate consumption. Such sales of cotton candy generally require

that one person make the cotton candy while another person takes the customer's money and delivers the product to the customer. As a result, the traditional cotton candy sales process, although producing fresh cotton candy, is labor intensive, time consuming, and extremely inefficient.

Furthermore, traditional sales of cotton candy have required that the consumer come to the location where the cotton candy is made so that it can be delivered fresh at the point of sale. Therefore, traditional sales and distribution methods for cotton candy have been somewhat inconvenient for the consumer, and have limited the volume of consumers to which the product is exposed.

More recently, the sale of cotton candy has expanded beyond the traditional method of making the cotton candy fresh right at the point of sale and there is now a significant desire for pre-made cotton candy products which are shipped to and sold in various locations. The desire to expand sales volume and market cotton candy all year to consumers in non-traditional cotton candy venues, such as super markets, convenience stores, and other such facilities, has driven the increased demand for pre-made cotton candy. As a result, cotton candy is now often pre-made in a remote facility, packaged, and then shipped or delivered to another facility which is the point of sale. A typical sales facility, for example, would be a concession vendor at a festival or sporting event, or a super market.

Since pre-made cotton candy is usually shipped and sold in a location other than where it is made, it became necessary to package the cotton candy. As noted, when sold freshly made, cotton candy would usually just be placed on a paper stick or cone. The current prior art methodology of packaging and marketing pre-made cotton candy has
5 been to place and sell the product in a thin plastic bag. For example, thin polypropylene bags having 0.001 to 0.002 inch thickness are used. Cotton candy is made at the remote facility and placed in the plastic bag which is then closed in an appropriate fashion, such as with a twist tie
10 or a plastic clip. The bags of cotton candy are then shipped to the point of sale and are marketed and displayed, usually on vertical display trees or racks which hold a number of the bags.

While such prior art methods of packaging and marketing cotton candy have addressed the desire to distribute cotton candy in a greater
15 number of locations and to a greater number of consumers, it has also created other issues which are not adequately addressed by the prior art.

One primary concern, which is not adequately addressed by the prior art, is the freshness and condition of the pre-made cotton candy product at the time of the sale and at the time that it is consumed. As
20 may be appreciated, cotton candy is fragile and therefore particularly susceptible to damage and degradation from conditions in the manufacturing, packing, shipping, and sales environment. In the past, when cotton candy was made fresh at the point of sale, freshness or its condition were not a particular concern. It was spun, collected, and

eaten more or less within a very short time period from a few minutes to an hour or so. However, when pre-making and pre-packaging cotton candy for later sale, the freshness and condition of the cotton candy must be protected and maintained prior to the sale. This can be many
5 hours or many days.

The prior art plastic bags which are used to hold the candy are significantly gas permeable, are not completely sealed by the twist ties and clips, and are compressible. Therefore, the inside environment of the bag is not airtight or moisture proof and the cotton candy product is
10 significantly exposed to damage and to the ambient atmosphere and the humidity and moisture in the atmosphere. As a result, prior art cotton candy products degrade and have a very limited shelf-life before they must be sold and consumed. The cotton candy wad can also be mashed, due to rough handling.

15 More specifically, cotton candy sold and marketed according to the prior art absorbs the ambient moisture or humidity which passes into the bag, through the bag wall or through the tie-wrapped opening. Upon absorbing the moisture, the cotton candy "wilts" or melts. Moisture which contacts cotton candy tends to degrade it to a syrup or gooey
20 form, therefore reducing or eliminating its fluffiness. That is, it simply becomes liquid sugar, rather than fluffy cotton candy. As may be appreciated, the gooey configuration is unappealing to the customer and certainly is not attractive on a sales display. As a result, a bag with evidence of sticky sugar or melted cotton candy is not going to sell.

Degraded cotton candy products do not sell well, and therefore must be replaced on a frequent basis. Prior art pre-made cotton candy has a very short shelf-life. The retailer will generally return the degraded product to the cotton candy wholesaler or manufacturer for refund, or
5 ask that it be removed and replaced with new product. This presents a substantial economic loss to the cotton candy maker, the wholesaler and possibly the retailer, as well. Degraded product which is not suitable for sale is usually then thrown away.

In the prior art, typical shelf-life for pre-made cotton candy might
10 be only 2-3 days. However, in humid climates or atmospheres, the shelf-life of cotton candy may be as short as 1 day.

Cotton candy manufacturers and retailers have had no choice but to address and accommodate the short shelf life of cotton candy. As a result, a retailer may only have or want enough product supply for a
15 typical 1 or 2 day sales volume, and may run short of product. This results in lost sales. The cotton candy product certainly cannot be successfully warehoused or inventoried. Therefore, cotton candy requires constant shelf and inventory maintenance by the manufacturer, wholesaler, retailer, or all three. As a result, prior art cotton candy
20 packaging and marketing methodologies present the risks of significant losses to the cotton candy manufacturer and reduced sales due to product degradation and waste, and also presents costs associated with frequent attention required for the displayed inventory, and frustration for the retailer.

Furthermore, the prior art limits the markets in which cotton candy may be sold. If the distribution and sales process is longer than three days or so, cotton candy is generally not suitable for that market. Large volume retailers, such as K-Mart® and Wal-Mart®, usually will not want
5 to handle a product which is so fragile and requires constant maintenance and protection, and then must be sold in a day or two.

An additional drawback in prior art methodologies for pre-made cotton candy is that the product is difficult to display. Generally, the bags are hung from a vertically-extending tree or rack, and are pulled
10 from the tree when purchased. Such trees are often difficult to stock. Furthermore, it is sometimes difficult for the customer to remove the cotton candy from the tree, and the unstable trees are susceptible to falling over when a bag is pulled therefrom. A falling tree or rack creates a mess and may also be dangerous. Therefore, prior art cotton candy
15 packaging and marketing methodologies are not desirable either from the consumer standpoint or the standpoint of the parties who must make and sell the product.

Still another drawback presented by the prior art is the fragility of the product when it is shipped and displayed. Like a loaf of bread, cotton
20 candy packaged in a plastic bag is susceptible to being smashed. The plastic bag is flimsy and does not hold a form. Cotton candy is predominantly air, so when it is significantly smashed or damaged, and has lost its fluffiness, it is generally not suitable for sale.

Freshness and fluffiness are characteristics which consumers particularly desire for cotton candy. Therefore, such drawbacks in the prior art packaging and marketing methodology are significant.

5 Accordingly, it is an objective of the present invention to address the drawbacks associated with current methodologies of packaging and marketing cotton candy.

Particularly, it is another objective of the present invention to reduce degradation and maintain the freshness of the cotton candy product, and thereby increase its shelf life.

10 It is another objective to expand the market for cotton candy products.

It is another objective of the invention to prevent the cotton candy from losing its fluffiness or wilting to a granular sugar form.

15 It is still another objective of the present invention to prevent cotton candy from being damaged or degraded during shipment and display.

It is still a further objective of the present invention to provide a more desirable display method for cotton candy.

20 These and other objectives are addressed by the invention as set forth hereinbelow.

Summary of the Invention

The inventive method, described herein, of packaging, marketing and selling of cotton candy, and the resulting food product associated

therewith, provides significant advantages to cotton candy manufacturers and retailers by maintaining the freshness and fluffiness of the product, by reducing moisture degradation, and by increasing the shelf life of the cotton candy to thereby reduce economic losses associated with damaged product which must be removed, discarded, and replaced. The costs of frequently maintaining an inventory and shelf product with a very short life span are also reduced. Substantial new markets for cotton candy products are created by the invention. The invention further provides benefits in shipping and displaying the cotton candy product.

The invention comprises forming cotton candy from molten sugar to form a fluffy wad of cotton candy. The fluffy wad of cotton candy is positioned within a rigid container body through an opening in the container body, such as in the top of the container body. One suitable embodiment of the invention utilizes a generally cylindrical or slightly tapered container body, generally having the shape of a cup. The rigid container body is significantly gas impermeable and defines a static volume in which the cotton candy wad is placed and in which the candy is protected from being easily compressed and from absorbing sufficient amounts of moisture such that it degrades.

In accordance with another aspect of the present invention, the rigid container body opening is sealed, such as with a lid, in a significantly airtight fashion to form the closed container. The closed container defines a significantly gas impermeable enclosure surrounding

the wad of cotton candy to reduce outside ambient moisture contact with the cotton candy and to maintain the freshness of the cotton candy. The wad of cotton candy is then presented in the rigid container for sale and consumption by a consumer.

5 In one aspect of the invention, the container has a significant gas impermeability characteristic which results in less than 0.3 grams of moisture per 100 square inches of container area at 73° Fahrenheit for 365 days at ambient pressures. One suitable container embodiment which has sufficient rigidity and significant gas impermeability is a
10 container formed of polypropylene having a wall thickness in the range of 0.007 to 0.015 inches, and more preferably, a wall thickness of 0.011 inches.

 The inventor has discovered that the inventive methodology and food product provides a significantly gas impermeable, non-crushable
15 environment for the cotton candy such that it yields an effective shelf-life for the cotton candy product of at least two weeks, generally over one month, and preferably at least two months. In the prior art, the average shelf life for cotton candy marketed according to the prior art is approximately only 2-3 days or less. The invention thereby opens up a
20 significantly larger market for cotton candy products by reducing the frequency of product and shelf maintenance, and by providing a larger window for sale or consumption of the cotton candy product before it must be discarded and replaced with new, fresher cotton candy. As a

result, the invention provides significant economic benefits not realized in the prior art.

In accordance with another aspect of the present invention, the container is sufficiently rigid to stackably support another container without compression of the cotton candy in any of the containers. In that way, a plurality of containers filled with cotton candy may be stacked and placed in a shipping structure or on a display shelf. The rigid container provides the wholesaler and retailer with a product which may be easily shipped, stored, and handled without damage to the delicate cotton candy. In one embodiment of the invention, the container has a flat bottom and therefore may be stacked on a flat display shelf along with other traditional food items. The present invention therefore eliminates the need for an awkward and cumbersome display tree or rack for displaying the cotton candy product. The product is easy to remove and re-stock on a shelf. Special delicate handling of the product is also no longer necessary.

In accordance with another embodiment of the invention, the rigid container is formed of a suitable plastic or other synthetic material, such as polypropylene, and comprises a cylindrical container body with a lid which forms a snap seal with the body to seal it. The snap seal is airtight and generally waterproof. Such material is lightweight and relatively inexpensive and provides the desired generally gas impermeable and rigid volume for containing the wad of cotton candy. Furthermore, the container also provides a generally water-proof static volume for further protecting the cotton candy wad from damage from

liquid in addition to the environmental moisture and humidity damage protection provided by the significantly gas impermeable qualities of the container.

5 Preferably, the container is transparent so that the cotton candy product may be seen to provide a visual incentive for purchase of the cotton candy. Furthermore, graphics are placed on the container to convey information about the cotton candy wad, and other desirable information, such as one or more trademarks.

10 Further advantages and features of the invention will become more readily apparent in the description of the invention given below.

Brief Description of the Figures

15 The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate embodiments of the invention and, together with a general description of the invention given below, serve to explain the principles of the invention.

Figure 1A is a perspective view of a fluffy wad of cotton candy.

20 Figure 1B is a perspective view of a container of cotton candy for packaging and marketing the cotton candy in accordance with the invention.

Figure 2 is a side, cross-sectional view of a shipping container of cotton candy product in accordance with one aspect of the invention.

Figure 3 is a front view of a display shelf of cotton candy product in accordance with another aspect of the present invention.

Figure 4 is a partial cross-sectional view of a container as illustrated in Figure 1B in accordance with an aspect of the present invention.

5 **Detailed Description of the Invention**

Referring to Figure 1A, a perspective view is shown of a fluffy wad of cotton candy. As noted above, a wad of cotton candy 10 is essentially a mass of delicate and fine spun molten sugar strands which have been collected together to form a wad. As such, prior art packages of pre-made cotton candy have required delicate handling to prevent damage or degradation of the cotton candy. Various machines and methods for making cotton candy are disclosed in various U.S. Patents, such as Nos. 10 3,036,532; 5,145,687; 5,441,754; 5,498,144; and 4,872,821.

The fluffy wad 10 of cotton candy is predominantly air surrounded by the spun strands of molten sugar which have solidified. Therefore, 15 the wad 10 forms a very fragile volume of cotton candy. The lightness or fluffiness of the cotton candy gives it its visual and taste appeal to consumers. Generally, a consumer would tear away a chunk of the fluffy wad to eat it, or may simply bite into the fluffy wad. Once in the mouth 20 of the consumer, the fluffy wad of cotton candy melts into a sweet, granular or liquid sugar form.

As noted above, the fluffy wad 10 of cotton candy may be damaged by being smashed or otherwise compressed so that it loses its fluffiness, or may revert to the wilted or gooey sugar form when exposed

to atmospheric or other moisture. In the damaged or wilted form, the cotton candy loses its visual appeal and therefore will not sell, resulting in economic loss. With current marketing methodologies wherein the cotton candy is packaged, shipped, displayed, sold, and otherwise
5 handled in a flimsy plastic bag, the fluffy wad 10 is constantly exposed to such possible damage and degradation. Furthermore, the freshness of the cotton candy product is generally lost shortly after it is made and displayed for sale, such that the shelf life is very short using prior art methods. The present inventive methodology of marketing and selling
10 cotton candy addresses these drawbacks and other drawbacks in the prior art, as noted above, and is directed primarily to the packaging and marketing of pre-made cotton candy which is made at a remote location and sold at various different retail locations. With pre-made and shipped cotton candy, freshness and product condition is of particular concern.
15 Of course, the invention is also suitable for use with fresh concession cotton candy, as well.

In the inventive methodology, the cotton candy may be formed from molten sugar to form the fluffy wad 10 shown in Figure 1A, according to various known methods. In the past, such a fresh wad has
20 generally been placed or wound onto the end of an elongated paper cone or stick for supporting the wad. Alternatively, as pre-made cotton candy, it was placed in a flimsy plastic bag.

In the invention, the fluffy wad 10 of cotton candy is positioned within a rigid container body 20 through an opening 22 in the container

body. In one embodiment of the invention, the rigid container body 20 comprises a bottom 24, a top 26 where the opening 22 is formed, and a generally vertical side wall 28 therebetween. The embodiment of the container body illustrated in the Figures is generally cylindrical in shape and forms a cup shape; however, other shapes might also be utilized for container 20. In the embodiment illustrated, for purposes of stacking the container, the body 20 actually tapers inwardly from top to bottom, similar to a truncated cone, but will be designated as generally cylindrical.

Container body 20 is referred to herein as a "rigid" container body, and is preferably formed of a suitable moldable synthetic or plastic material, such as polypropylene. The rigidity of container body 20 is relative, and the container body is significantly rigid relative to the non-rigidity or flimsiness of a plastic bag which is utilized in the prior art for packaging and marketing pre-made cotton candy. The container body 20 is rigid enough to define a generally static volume within and hold its shape and generally prevent the fluffy wad 10 from being easily compressed or smashed. Particularly, the container body 20 is sufficiently rigid to hold its shape and withstand greater pressures thereon than would a flimsy prior art plastic bag. While polypropylene is one suitable plastic material for forming rigid container body 20, other plastics and suitable materials might also be utilized to mold container body 20. A container formed of polypropylene of a particular construction has been found to be suitably rigid, and to provide a

significantly gas impermeable environment for the cotton candy, as discussed below.

As will be readily understood, container body 20 might be crushed if a sufficient amount of weight or force is applied thereto, and the purpose of the rigidity of container body 20 is not to withstand all possible forces, but rather to keep a defined shape to protect the fragile cotton candy and to provide greater protection than prior art methodologies, particularly in the normally expected circumstances of packing, shipping, displaying, and selling this product.

Another consideration in packaging and marketing cotton candy is the weight and cost of the container. Since cotton candy is light and fluffy, and therefore the weight of the wad 10 will not, itself, provide significant forces or stresses on container body 20, a rigid yet lightweight container is used in accordance with the invention. Furthermore, since the marketing of the cotton candy and its profitability take into account the cost of the container, the container should be relatively inexpensive. The container described herein, and used according to the invention, meets that criteria. Furthermore, the savings of cotton candy product provided by the maintained freshness and the increased shelf life of the inventive methodology justifies any increased cost of a container body 20 over the cost of a typical prior art plastic bag. As discussed further hereinbelow, in one aspect of the present invention, the containers are configured to be stacked (Figure 2). Therefore, the rigidity of container body 20 is preferably sufficient to withstand the stacking of multiple

containers, one on the other, without compression and damage of the cotton candy products therein.

Container body 20 is preferably transparent so that the cotton candy may be seen when the container is sealed and displayed. Cotton
5 candy is often sold as an impulse product, and thus the visual stimulation provided by sight of the cotton candy provides a significant sales incentive to a customer. Clear plastic bags, as utilized in the prior art, have maximized that sales incentive, and the methodology of the present invention utilizes a container body 20 which maintains a similar
10 sales incentive by showing the cotton candy wad 10 through the walls 28, bottom 24, and top 26 of the container body 20. Referring to Figure 1B, the transparent container may include graphics 29 thereon, such as for showing the ingredients or other aspects of the product, such as a trademark indicating the brand of cotton candy.

15 However, the significant improvement provided by the present invention is that it drastically improves the freshness, condition and marketability of the cotton candy product over prior art methodologies. Furthermore, because of the increased duration at which freshness is maintained, new markets for cotton candy are created.

20 In accordance with another aspect of the present invention, the rigid container body 20 is significantly gas impermeable and surrounds the cotton candy wad. The container body is sealed in a significantly airtight fashion to form a closed container which defines a significantly gas impermeable container with static internal volume to reduce ambient

moisture (as with humidity) contact with the cotton candy and maintain its freshness. As noted above, environmental moisture or humidity will wilt or melt cotton candy and thus degrade its condition and destroy its freshness and sales appeal. In the prior art, the cotton candy is exposed to such moisture and damage because prior art flimsy plastic bags breathe and allow environmental humidity to contact the cotton candy. Furthermore, the bags are loosely sealed with twist ties or clips which are not sufficient to form an airtight seal.

The term "significantly gas impermeable" as used herein to describe the invention is a relative term with relation to the prior art. That is, the invention utilizes a container, which is significantly gas impermeable with respect to the gas permeable or breathable nature of flimsy prior art plastic bags. Therefore, the container used in the present invention might not be absolutely gas impermeable. Given sufficient time and pressure, the container may allow moisture from the environment to pass therethrough. However, the inventor has found that the significantly gas impermeable nature of the invention, as described, will maintain the freshness of the cotton candy and prevent moisture damage for a significantly longer time than the prior art. As noted below, the invention has increased the shelf life of a pre-made cotton candy product drastically from 1 to 2 days, typically, to over two weeks, and usually around 1 to 2 months and longer. This not only significantly reduces economic losses to the cotton candy wholesaler and retailer, but ensures

a tastier, fresher product and opens new markets, and significantly larger markets, for cotton candy products.

In one embodiment of the invention, the container has a significant gas impermeability which results in less than 0.3 grams of moisture exposure for the cotton candy per 100 sq. in. of container area at an ambient temperature of 73° Fahrenheit over a time period of 365 days. To achieve such gas impermeability, one embodiment of the container is formed of polypropylene having a wall thickness in the range of 0.007 to 0.015 inches. In one specific embodiment, the container has a wall thickness of approximately 0.011 inches. The container body, and the opening therein through which the cotton candy is placed in the container, is sealed in a generally airtight fashion to form a closed container with the significant gas impermeable qualities of the invention. In one embodiment, a lid is utilized and forms a significantly gas impermeable seal with the container body. For example, the seal could be a snap seal which is formed by the lid with the container body. In another example, the seal could be a tamper-proof seal.

As illustrated in Figure 4, the lid 30 comprises a flat upper surface 33 and a raised rib 34. The rib 34 defines a channel which receives the upper lip 27 of the container when the container body 20 is sealed with the lid 30. Figure 4 shows a cross-sectional view of one suitable snap seal structure wherein the side wall 28 of the container, at the top thereof, forms lip 27 which is engaged by the rib 34 to fit in a trough or channel created thereby. The rib is flexible and resilient and snaps over

the lip 27 to form the snap seal. The contact between the upper surface of the lip 27 and the surface 35 of the channel formed by rib 34 provides a seal in an airtight and significantly gas impermeable fashion for protecting the freshness of the cotton candy wad in accordance with the principles of the present invention. The seal and overall container are further significantly liquid-tight. An indentation 36 may be formed on lid 30 so that the lid may be snapped onto lip 27 of the container 20 for holding the two lip and lid surfaces together in a significantly gas impermeable and liquid-tight seal, as well.

As noted above, the freshness, and therefore, shelf life, of cotton candy marketed in prior art breathable or leaky plastic bags, is generally limited to approximately 1-3 days. Sometimes, it may be as short as 1 day for particularly humid environments. Therefore, prior art cotton candy must be sold or replaced at that short interval, with the degraded and unsold product usually being thrown away or discarded. The short shelf life presents a significant economic loss to the cotton candy maker and/or the retailer. It limits sales, because retailers will only want to display what they can sell. It also increases the cotton candy maker and or wholesaler's cost by requiring relatively frequent maintenance of the shelf inventory of pre-made cotton candy. As such, in the prior art, cotton candy products have had to be sold relatively quickly for rapid inventory turnover in order to present the desirable freshness and quality and avoid product loss and the negative economic effects thereof .

The inventor has discovered that by utilizing the unique inventive methodology for packaging, marketing, and selling cotton candy, significant cost savings will result. The cotton candy marketed according to the invention maintains its freshness for over two weeks and usually over one month, and usually over two months. Therefore, the cotton candy product marketed and sold according to the invention has a shelf life within a supermarket which is over two weeks and usually around 1 to 2 months. This significantly reduces product loss and economic loss attributable to degraded and unsold product which must be removed and discarded. Furthermore, it reduces the frequent, periodic maintenance associated with a product which has a 1-3 day shelf life, resulting in further cost savings. The generally gas impermeable feature provided by the invention also keeps the cotton candy fresher and thus enhances the quality of the product along with improving its taste and ultimately its saleability.

A further benefit of the inventive methodology is that it essentially creates new channels of trade and opens entirely new markets in which cotton candy products might be sold, and therefore increases the sales volume and profitability of the cotton candy maker. More specifically, cotton candy which is marketed and sold utilizing the inventive methodology may be sold in venues which require a significantly longer shelf-life than 1-3 days, or even a week. For example in large retailers, such as K-Mart® or Wal-Mart®, the products will be in the distribution chain, and then ultimately on the shelf, significantly longer than the

typical 1-3 day time period corresponding to the shelf-life of prior art cotton candy products. Furthermore, in such sales venues, the product will often have to be stored and inventoried. Prior art cotton candy products cannot be inventoried or stored for any significant length of time and therefore have not been particularly suitable for such sales channels or venues. With the invention, cotton candy may now be offered to a greater number of consumers through such sales venues without significant concern for the degradation or ultimate freshness of the product, and without concern for the transit time to deliver the product to the shelf, or for the actual time that the product is inventoried or remains on the shelf before being sold and consumed. Therefore, the inventive methodology provides significant benefits to cotton candy makers to assist in presenting their product to market, and actually increases sales by opening up and defining new markets for the sale of the cotton candy products. The invention also improves the overall profitability of the enterprise by reducing the costs associated with discarded product and frequent inventory maintenance.

In accordance with another aspect of the present invention, the inventive rigid container also provides a significantly liquid-tight containment for the wad of cotton candy. This protects the cotton candy wad from damage from moisture and water or other liquid, in addition to any moisture from the air, which may be encountered when the product is warehoused or otherwise stored.

In accordance with another aspect of the present invention, cotton candy is presented to a consumer within a significantly rigid container for direct consumption from the container. The container is configured to stackably engage another container. More specifically, the lid 30 is
5 configured to stackably engage a bottom of another similar rigid container body, and the container is sufficiently rigid to stackably support another container without compressing the cotton candy therein. Referring to Figure 2, the plurality of stacked containers may then be placed in a rectangular shipping structure 40, such as a box, for
10 shipment. The rigid container protects the fragile cotton candy wad 10, and prevents it from being smashed or otherwise damaged due to the weight of the other product stacked above each wad. This further increases the profitability of the cotton candy maker.

Generally, in the prior art, if the flimsy bags of cotton candy were
15 stacked, the lowermost bags are smashed by the weight of the uppermost bags of product. That is, a wad of cotton candy would be smashed or compressed by any other wad of cotton candy or other item placed on top of it. Compression damage, which reduces the desirable fluffiness of the cotton candy, may make the product difficult or
20 impossible to sell. Prior art marketing and sales of pre-made cotton candy, including shipment of the cotton candy product, is not particularly efficient since special shipping procedures are necessary to prevent the fragile cotton candy from being smashed or otherwise damaged. Such inefficiencies and the special handling required by the prior art increase

the overall cost of marketing the product. The present invention allows for shipping of cotton candy product in a manner similar to the way other products are shipped, such as on pallets of stacked containers, wherein individual cotton candy wads are stacked on other wads in their respective rigid containers.

The container 20 is preferably tapered from top to bottom in one embodiment, as illustrated in the Figures. The bottom 24 of the container is not as wide as the top 26 and is received by surface 33 on lid 30 of a lower container (see Figures 2 and 3). The bottom 24 is contained by the rib 34 from sliding off of the lid 30, and the lid 30 thereby stackably engages the bottom of another container.

In accordance with another aspect of the present invention, the lid 30 of the container is configured to form a snap seal and is resealable. That is, the lid may be unsealed to unseal the container for access to the cotton candy, and then replaced and resealed to again cover the opening 22 of the container in a significantly gas impermeable and airtight fashion. Referring to Figure 1B, a lid might be removed and unsealed from the container, simply by pulling it from the container. The flexibility of the lid, which would usually be made of the same material as the container, will allow the indent 36 to be pulled away such that the edge of the lid 30 may be unsnapped and removed from the lip 27 of the container. The resiliency of the lid material, such as polypropylene, will allow it to be snapped again onto the top of the container in significantly airtight and moisture-tight fashion. In that way, the container may be

readily sealed if all the cotton candy is not consumed immediately. The container will then continue to function to protect and maintain the freshness of the cotton candy wad.

5 In accordance with another aspect of the invention, the inventive methodology provides for easier display and maintenance of the cotton candy product on a store shelf. As noted above, prior art pre-made cotton candy products in flimsy bags were generally hung from a vertical display tree, rack, or other stand. The cotton candy displayed in such a way is difficult to remove from the tree, is subject to significantly more
10 damage while on the tree, is difficult to restock, and presents a hazard because the unstable tree might be knocked over by a customer, including a child, either accidentally, or when trying to pull the product from the tree. The container according to the method of the present invention, however, includes a generally flat bottom 24 so that
15 containers full of cotton candy may be stacked generally on a flat display shelf, as illustrated in Figure 3. Shelf 50 is similar to various traditional store shelves, or other shelves, which are used to display and sell product. Such shelves generally include vertical support elements 52 with horizontal shelf elements 54 spanning therebetween. Alternatively,
20 the shelf element 54 might be suspended from a back wall (not shown) of the unit 50. Utilizing the methodology of the present invention, the cotton candy may be displayed readily on a shelf. Furthermore, it may be readily removed by a customer, and just as readily replaced by a stock person. Still further, as noted in Figure 2 with respect to shipment of

cotton candy according to the inventive methodology, the container 20 may be stacked two or more containers high, as illustrated in the lower part of the shelf unit 50 shown in Figure 3. Thus, the lid of the container which is configured to stackably engage a bottom of another rigid container provides an additional benefit in the display portion of the marketing and sales methodology of the present invention. The invention further eliminates the need for clumsy and unstable display trees.

The present invention lends itself to an assembly line or mass production of cotton candy for resale at locations removed from the manufacturing facility and also at a time significantly after the cotton candy is manufactured, as compared to traditional point of sale methods and prior art pre-made cotton candy sales methods. The inventive methodology, and food products resulting therefrom, presents a more efficient and cost effective way for marketing cotton candy. The invention reduces product loss, inventory maintenance, and labor requirements, and thereby increases profitability. The freshness and lack of degradation of the product increases sales. Shipping, display, and overall handling of the cotton candy is more efficient and less damaging to the product. The present invention enhances the market for cotton candy in supermarkets and convenience stores, and makes cotton candy a viable product for large retailers, which channels of trade are very desirable for large volume sales. The invention also provides the same benefits for sales of cotton candy in traditional concession venues.

Finally, it will be appreciated that the invention effectively separates the cotton candy spinning operation from the point of sale and consumption activities, significantly extending the time therebetween, without product degradation, and thus extends the product to previously
5 unexploited markets.

While the present invention has been illustrated by the description of the embodiments thereof, and while the embodiments have been described in considerable detail, it is not the intention of the applicant to restrict or in any way limit the scope of the appended claims
10 to such detail. Additional advantages and modifications will readily appear to those skilled in the art. Therefore, the invention in its broader aspects is not limited to the specific details representative apparatus and method, and illustrative examples shown and described. Accordingly, departures may be made from such details without departure from the
15 spirit or scope of applicant's general inventive concept.

What is claimed is:

1. A method of marketing and selling cotton candy comprising:
forming cotton candy from molten sugar to form a fluffy wad of
cotton candy;

5 positioning the fluffy wad of cotton candy in a rigid container body
through an opening in the container body, the container body being
significantly gas impermeable and surrounding the cotton candy wad to
generally protect the wad from being easily compressed;

sealing the container body opening in a significantly airtight
fashion to form a closed container, the closed container defining a
10 generally gas impermeable volume surrounding the wad of cotton candy
reduce moisture contact with the cotton candy and maintain its
freshness;

presenting the wad of cotton candy in the container for direct
consumption by a consumer from the container.

2. The method of claim 1, including the step of limiting gas transmission into said volume at a rate of less than 0.3 grams of moisture per 100 square inches of container area at 73° Fahrenheit for 365 days.
3. The method of claim 1, including the step of using a container of polypropylene having a wall thickness in the range of 0.007 to 0.015 inches.
4. The method of claim 3 wherein said container has a wall thickness of approximately 0.011 inches.
5. The method of claim 1 further comprising the step of sealing the container body opening with a lid, providing a significantly gas impermeable seal with the container body.
6. The method of claim 1 further comprising the step of sealing the container body opening with a lid, the lid forming a snap seal with the container body.
7. The method of claim 1 including the step of using a container which is sufficiently rigid to stackably support another container without compression of the cotton candy product therein.

8. The method of claim 5 wherein the lid is configured to stackably engage a bottom of another rigid container.
9. The method of claim 1 wherein the container includes a generally flat bottom.
10. The method of claim 1 wherein said rigid container body is made of a plastic material.
11. The method of claim 1 wherein said rigid container is at least partially transparent so the cotton candy may be seen inside the container.
12. The method of claim 1 wherein said container has a generally cylindrical shape.
13. The method of claim 1 further comprising placing graphics on said container to convey information about the cotton candy wad.
14. The method of claim 1 further including displaying the cotton candy within said container for sale for period of at least two weeks.

15. A food product comprising:
- a fluffy wad of cotton candy;
 - a rigid container enclosing the wad of cotton candy within a sealed volume;
- 5 the container defining a significantly gas impermeable sealed volume which surrounds the cotton candy wad and reduces moisture contact with the cotton candy to maintain the freshness of the cotton candy wad.

16. The food product of claim 15 wherein the container has a gas impermeability which results in the exposure of the cotton candy to less than approximately 0.3 grams of moisture per 100 square inches of container area at 73° Fahrenheit for 365 days.

17. The food product of claim 15 wherein the container is formed of polypropylene having a wall thickness in the range of 0.007 to 0.015 inches.

18. The food product of claim 17 wherein the container is formed of polypropylene having a wall thickness of approximately 0.011 inches.

19. The food product of claim 15 wherein said rigid container comprises a container body and a lid, the lid forming a significantly gas impermeable seal with the container body.

20. The food product of claim 15 wherein the rigid container comprises a container body and a lid, the lid forming a snap seal with the container body.

21. The food product of claim 15 wherein the container is sufficiently rigid to stackably support another container without compression of the cotton candy product therein, and further including a stack of a plurality of the containers filled with cotton candy.

22. The food product of claim 15 wherein said container is made of a plastic material.

23. The food product of claim 15 wherein said rigid container is at least partially transparent so the cotton candy may be seen in the container.

24. The food product of claim 15 wherein said container is generally cylindrical in shape.

25. A method of marketing and selling cotton candy comprising:
forming a fluffy wad of cotton candy;
positioning the fluffy wad of cotton candy in a rigid container and
sealing the rigid container around the wad of cotton candy;

5 the rigid container defining a static volume which surrounds the cotton
candy wad and the container protecting the wad from being easily
compressed and damaged; and

The container maintaining the cotton candy from moisture sufficient
to degrade the cotton candy for a period of at least two weeks.

26. The method of claim 25 wherein said container includes a body and a lid, the method further including snap sealing the lid with the container body for providing a significantly airtight seal for the container.

27. The method of claim 25 wherein said container is generally gas impermeable and significantly prevents the exposure of the cotton candy to moisture in the atmosphere to maintain the cotton candy for a period of at least one month.

28. The method of claim 25 wherein the container is configured to stackably support another similar rigid container without compression of the cotton candy wads therein.

29. The method of claim 25 including the positioning step of placing the cotton candy in a container is formed of polypropylene having a wall thickness in the range of 0.007 to 0.015 inches.

30. A food product comprising:
a fluffy wad of cotton candy;
a rigid container enclosing the wad of cotton candy within a sealed volume;

5 the rigid container body defining a static volume which surrounds the cotton candy wad and generally protects the wad from being easily compressed and damaged, and maintains the cotton candy from moisture sufficient to degrade the cotton candy for a period of at least two weeks.

31. A food product comprising:
- a fluffy wad of cotton candy;
 - a container enclosing the wad of cotton candy within a sealed volume;
 - the container being significantly gas impermeable and operable for
- 5 reducing the exposure of the wad of cotton candy to moisture in the ambient atmosphere to establish a shelf life of the food product of at least one month.

32. The food product of claim 31 wherein said container includes a body and a lid, the lid being snap sealed with the container body for providing the significantly gas impermeable container.

33. The food product of claim 31 wherein said container is formed of plastic having a wall thickness in the range of 0.007 to 0.015 inches.

34. The food product of claim 33 wherein said container is formed of a plastic having a wall thickness of about 0.011 inches.

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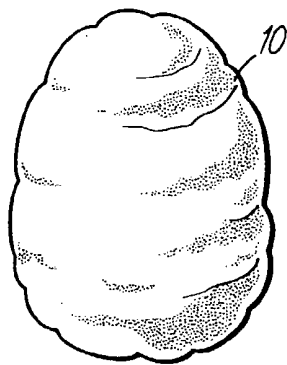


FIG. 1A

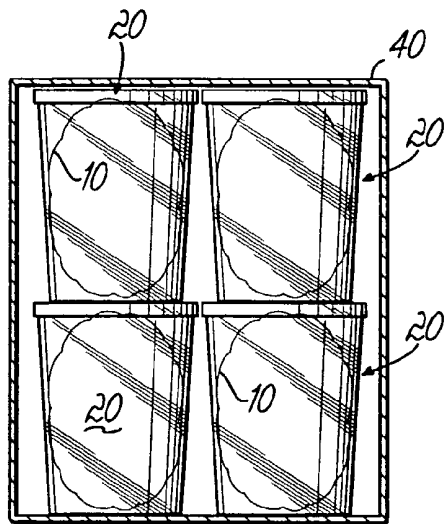


FIG. 2

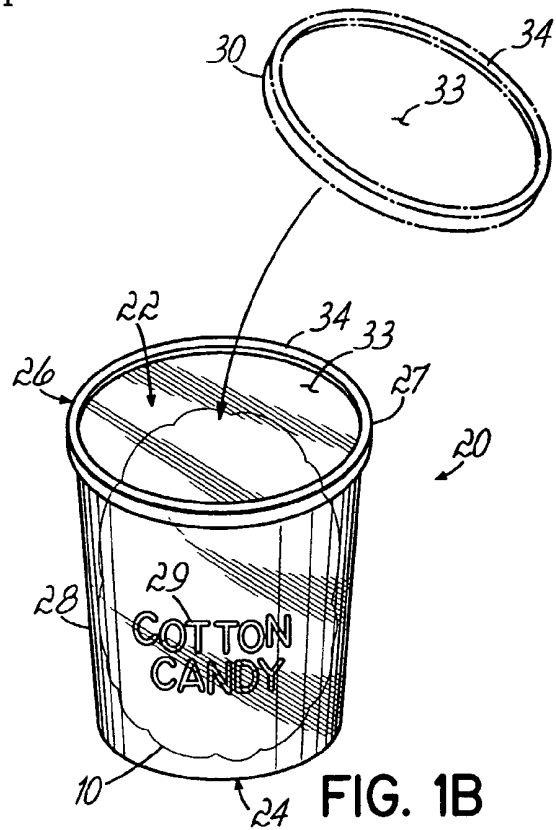


FIG. 1B

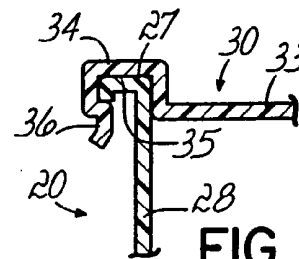


FIG. 4

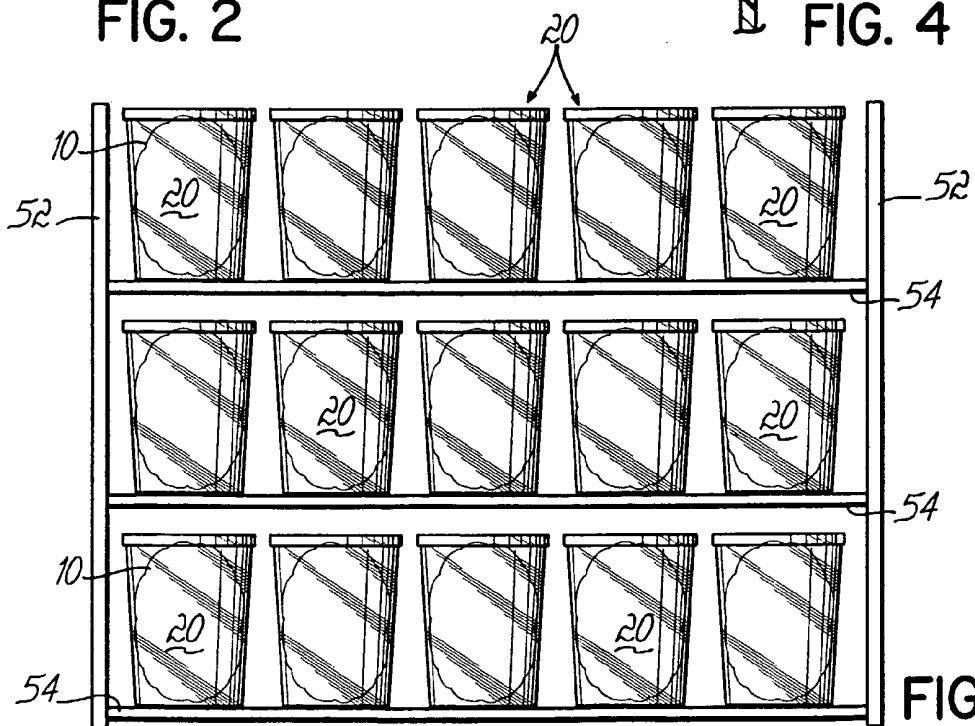


FIG. 3