A beverage can with a small external sweet reservoir is provided. The reservoir is rotate-ably attached to the bottom of the beverage can. A hole for introducing the sweet is developed at the bottom of the beverage can. The reservoir is a shallow cylindrical can, which is divided into pluralities of sections of same internal volume by pluralities of dividers that are installed inside of the reservoir and are extending radially from the center thereof. Each section is filled with sweet solution, except first section. Face of the reservoir toward the main can body is open. Rubber gaskets are attached at each end of the dividers and the open end of the reservoir, which contacts with the beverage can, to prevent leak of the sweet solution. As a customer turns the reservoir, additional sweet solution is introduced to the beverage can through the hole and the user can adjust sweetness of the beverage.
Fig. 1
BEVERAGE CAN WITH AN EXTERNAL RESERVOIR FOR ADDITIONAL SWEET

FIELD OF THE INVENTION

[0001] Current application relates to a beverage can, especially to a beverage can equipped with an additional sweet reservoir.

BACKGROUND OF THE INVENTION

[0002] Most of bottled or canned beverages on the market have fixed contents of sugar therein. However, as the interest to healthy food increases, more and more people ask for beverages with low sugar contents and low calories. As a result, same beverage with different sugar contents is needed. But, it is un-able to satisfy everybody’s taste at the same time. Therefore, beverages of one brand with different flavors or different contents of sugar are produced. However, producing one kind of beverage with different sugar contents and flavors at same time is not an easy job to be done at one facility for producing a beverage. Moreover, production cost increases as the number of grades increases. It is purpose of current application to provide a beverage can that is able to adjust sugar contents and other flavor’s content according to customer’s needs. As a result, many customers can enjoy beverage of specific brand, which has sugar contents and flavor that fits to their preference without burdening the manufacturer to produce many different grades of beverage under one same brand from their manufacturing site. Then, the manufacturer can cut down production cost and customers can enjoy various beverage of their taste at lower price.

DESCRIPTION OF PRIOR ART

[0003] U.S. Pat. No. 7,051,907 to Brincat illustrates a refillable container adapted to facilitate the purchase and use of larger volumes of consumer products. U.S. Pat. No. 6,997,359 to Boggs, et al. illustrates a bottle closure comprising a cylindrical inner member adapted to be threaded engaged on the outside of the neck of a bottle. U.S. Pat. No. 6,659,833 to Sloot illustrates a beverage can cap for attachment to a beverage can having a top wall surrounded by a peripheral and circular lip and a tab opener attached to the top wall is provided. U.S. Pat. No. 6,450,358 to Berro illustrates a hygienic beverage can attachment that is formed of a liquid-impervious, elastically resilient material that has a skirt with a radially inwardly directed lip at its outer periphery and with a drinking port. U.S. Pat. No. 5,947,324 to Palinechak illustrates an adapter in the shape of a bottle top which will provide a bottle-like spout which is releasably attached to an aluminum beverage can. U.S. Pat. No. 5,755,354 to Lang illustrates a metal beverage can with a cup portion closed at the bottom and open the lid, and a lid portion has a closable pouring opening and is flanged with a flanged edge onto a lid-facing edge of the cup portion with a gasket. U.S. Pat. No. 5,732,851 to Griffin, et al. illustrates a one-piece detachable drinking attachment for use with metal beverage cans comprising a top portion having a substantially cylindrical wall, an integral base that has a plurality of annular gripping collars of different diameters, and a C-shaped integral handle. U.S. Pat. No. 4,925,050 to Yu illustrates a beverage can which have mouth-fit upper portion, clean and hygienic upper portion, novel and attracting appearance, slippery preventing and easy to grasp body shape. U.S. Pat. No. 4,815,615 to Phaphongphanich illustrates a system for feeding infants, consisting of dispos-able nipples and including flexible milk bags stored in a tubular casing. U.S. Pat. No. 4,809,297 to Barbour illustrates a cleaning device includes a sponge material which has a pair of concentric upwardly extending cleaning ribs. U.S. Pat. No. 4,717,037 to van der Meulen illustrates a beverage can attachment having a substantially cylindrical body with clamping means for obtaining a liquid tight connection between the cap and a beverage can, an inner disk having means for engaging the upper rim of the can, a disk aperture which is align-able with the can lid opening, and disk means for receiving a can lid opening device. The attachment can be mounted to the top of a beverage can which has the opening device remaining attached to the can top after the can is opened. U.S. Pat. No. 4,679,702 to Maccaroni, et al. illustrates a sanitary drinking accessory is disclosed for use with a metal beverage can after it has been opened by actuating an integral “pop-top” feature. U.S. Pat. No. 4,228,913 to Mack, et al. illustrates a tab top can having a self contained drinking straw. The straw includes a resilient bellows structure on its bottom which serves to bias the top end of the straw against the underside of the tab top. U.S. Pat. No. 4,098,439 to Blok, Jr., et al. illustrates a sealing rib that is attached to a bottom portion of a cup shaped vessel adapted to fit snugly over the rim of a conventional beverage can is provided.

[0004] None of the prior art illustrates an additional reservoir attached to a beverage can to add additional sweets to a beverage can.

SUMMARY OF THE INVENTION

[0005] There are beverages of one brand with different flavors or different contents of sugar are produced. However, producing one kind of beverage with different sugar contents and flavors at same time is not an easy job to be done at one facility for producing a beverage. Moreover, production cost increases as the number of grades increases. Current application enables a beverage can that is able to adjust sugar contents and other flavor’s content. As a result, many customers can enjoy beverage of specific brand, which has sugar contents and flavor that fits to their preference without burdening the manufacturer to produce many different grades of beverage under same brand from their facility. Then, the manufacturer can cut down production cost and customers can enjoy various beverage of their taste at lower price. A beverage can with a small external sweet reservoir is provided. The reservoir is rotate-ably attached to the bottom of the beverage can. A hole for introducing the sweets is developed at the bottom of the beverage can. The reservoir is a cylindrical can, which is divided into pluralities of sections of same internal volume by pluralities of dividers, installed inside of the reservoir, extending radially from the center thereof. Each section is filled with sugar solution, except first section. Face of the reservoir toward the main body of the beverage bottle is open. Rubber gaskets are attached at each end of the dividers and the open end of the reservoir, which contacts with the beverage can, to prevent leak of the sugar solution. As a customer turns the reservoir, additional sugar solution is introduced to the beverage can through the hole and the user can adjust sweetness of the beverage.

BRIEF DESCRIPTION OF DRAWINGS

[0006] FIG. 1 is a perspective drawing of a beverage can with an external reservoir for additional sweet according to current application.
**FIG. 2** is an exploded view of the beverage can with an external reservoir for additional sweet according to current application.

**FIG. 3** is a cross-sectional view of the beverage can with an external reservoir for additional sweet according to current application along the line A-A' in FIG. 1.

**DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

**[0007]** FIG. 2 is an exploded view of the beverage can (1) with an external reservoir (2) for additional sweet according to current application. The bottle is comprised of a main can body (3) and an external reservoir (2). FIG. 2 is an exploded view of the beverage can (1) with an external reservoir (2) for additional sweet according to current application. The reservoir (2) is rotatable attached to the main can body (3) at the bottom thereof via a rotating pin (4) that penetrates a cylindrical hole (5), which is developed at the center of the reservoir (2) along the depth thereof, and is engaged to a concave groove (6) developed at the bottom of the main can body (3). A hole (7) for introducing the sweets is developed at the bottom of the main can body (3). A hole (7) for introducing the sweets is developed at the bottom of the main can body (3). And a concave groove is (6) developed at the bottom of the main can body (3). The reservoir (2) is a shallow cylindrical can, which is divided into pluralities of sections (2-1) of same internal volume by pluralities of dividers (8), installed inside of the reservoir, extending radially from the center thereof. One circular side of the reservoir (2) facing the main can body is open. Each section (2-1) is filled with sugar solution except the first section that faces with the hole (7), that is developed at the bottom of the main can body (3), for introducing the sweets. A cylindrical hole (5) is developed at the center of the reservoir (2) along the depth thereof. A rotating pin (4) penetrates a cylindrical hole (5) and is engaged to a concave groove (6) developed at the bottom of the main can body (3).

**[0009]** FIG. 3 is a cross-sectional view of the beverage can (1) with an external reservoir (2) for additional sweet according to current application. Rubbery silicon gasket (9) are attached at each one end of the dividers (8) facing the main can body (3) and the open end (10) of the reservoir (2), which contacts with the main can body (3), to prevent leak of the sugar solution.

**[0011]** Beverage in the can with an external reservoir for additional sweet according to current application is provided with minimum sugar contents. At the beginning the empty section faces the hole (7). Silicon gaskets (9) prevent the sweet solution in the reservoir (2) from leaking. A customer picks up the beverage can (1) of the current application and read the initial contents of sugar. If the customer thinks that more sweets are needed, the customer turns the can (1) of the current application up side down and turns the reservoir (2) in one direction. As the customer turns the reservoir (2), sugar solution introduces into the main can body (3). Then the user shakes the can (1) to mix the beverage with additional sweets. As a result, a customer can adjust sweetness of the beverage of favorite according to his/her taste.

**[0012]** In addition to sweets, any kind of flavors can be stored in the reservoir.

What is claimed is:

1. A beverage can with an external reservoir for additional sweet is comprised of
   - a main can body at the bottom thereof a hole for introducing the sweets and a concave groove are developed, and
   - an additional reservoir that is in a shape of a shallow cylindrical can, whose one circular side facing the main can body is open and a rubbery gasket is attached to open end, and
   - is divided into pluralities of sections of same internal volume by pluralities of dividers, that are installed inside of the reservoir, and rubbery silicon gaskets are attached whose open ends, and
   - are extending radially from the center thereof, and
   - is rotate-ably attached to the main can body at the bottom thereof via a rotating pin that penetrates a cylindrical hole, which is developed at the center of the reservoir along the depth thereof, and
   - is engaged to the concave groove developed at the bottom of the main can body.

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