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(54) **FOOD SEASONING QUANTITATIVE DISPENSER**

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(57) **ABSTRACT**

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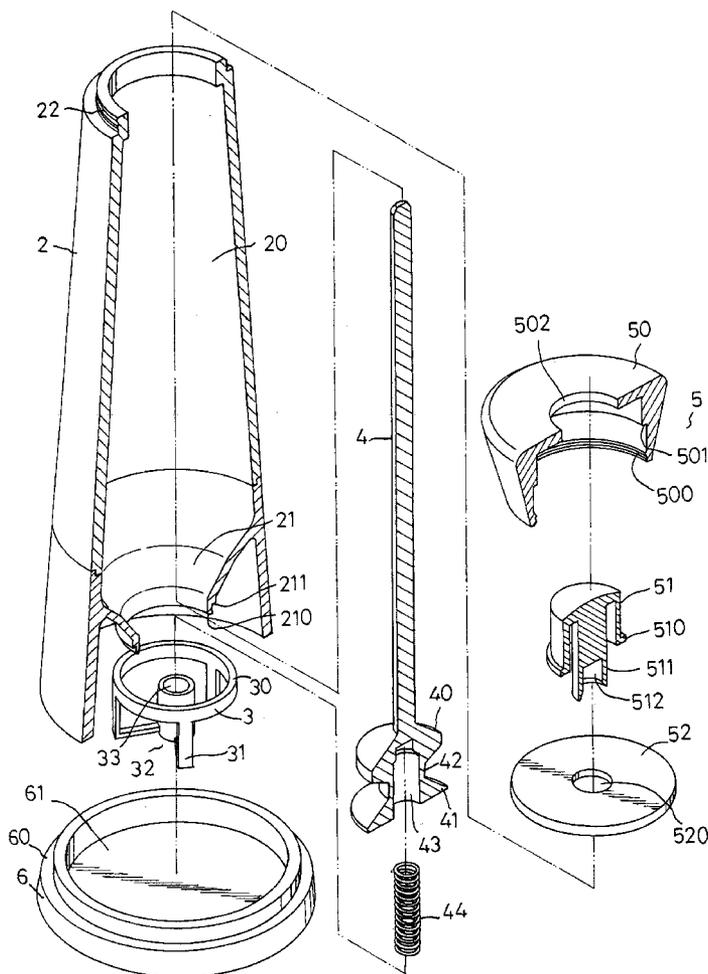
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A food seasoning quantitative dispenser includes a body, a supporter, a center rod, a cap unit and a base. The body has a chamber for storing seasoning, and a conical neck. The supporter has plural feet, an annular wall, a central tubular member and an outlet between the feet, and located under the conical neck. The center rod has two flanges, an annular groove between the flanges and a bottom hole for a spring to fit in. The cap unit has a cap body, a button and a stop disc. When the button is pressed down, the center rod is moved down to let the seasoning fall down through the open bottom of the body and received in the base closed on the bottom of the body. The fallen amount is definite for one time of pressing, so a user can adjust the amount by repeating pressing the button.



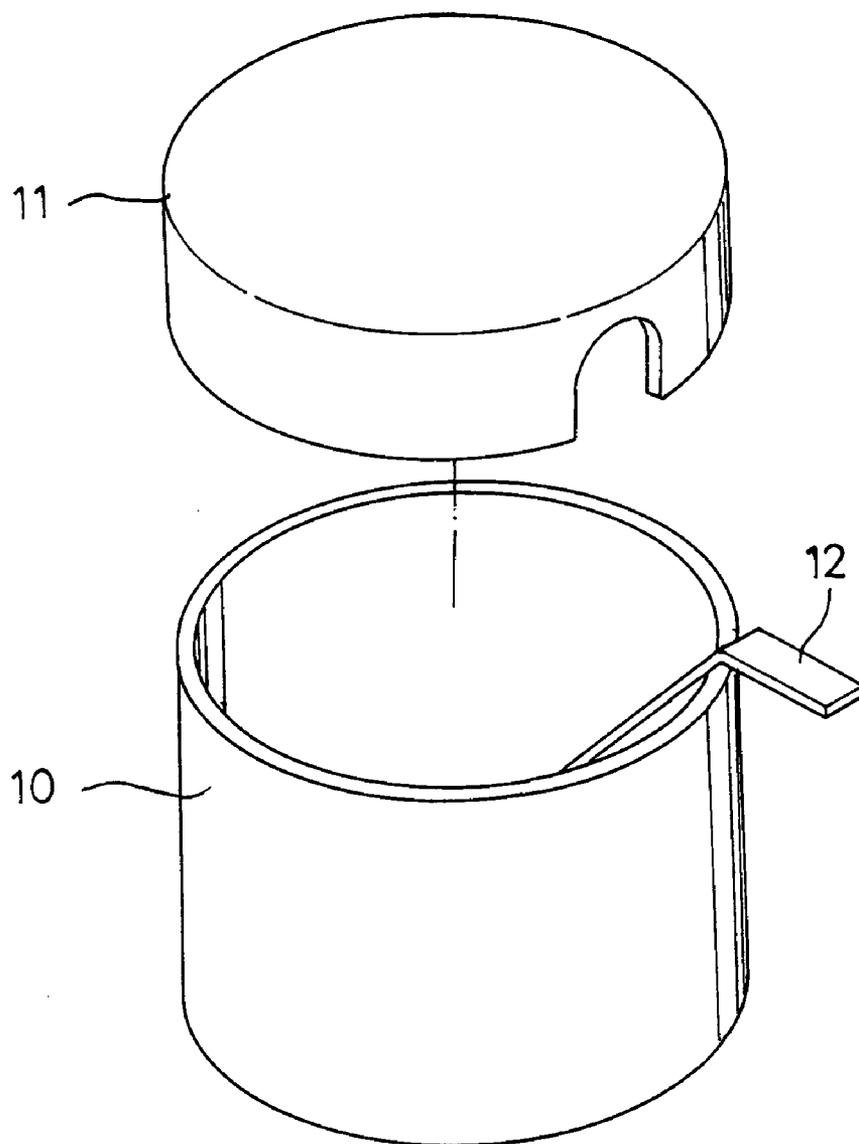


FIG. 1
(PRIOR ART)

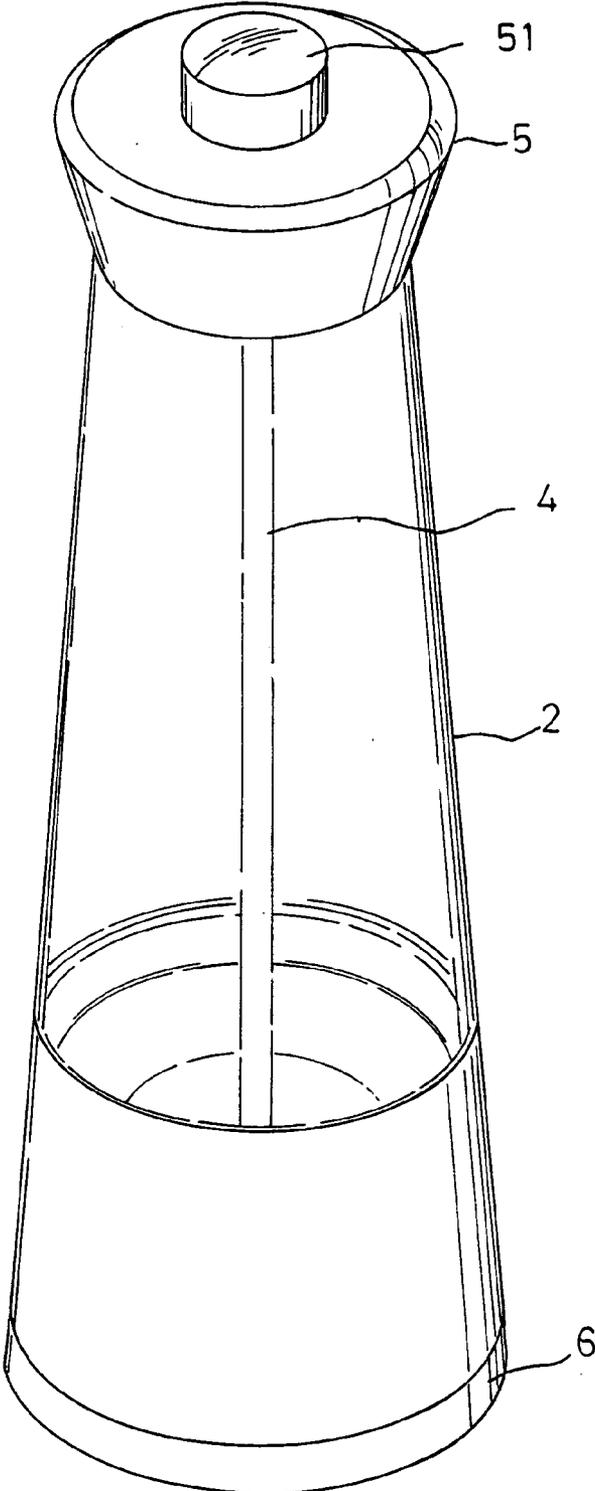


FIG.3

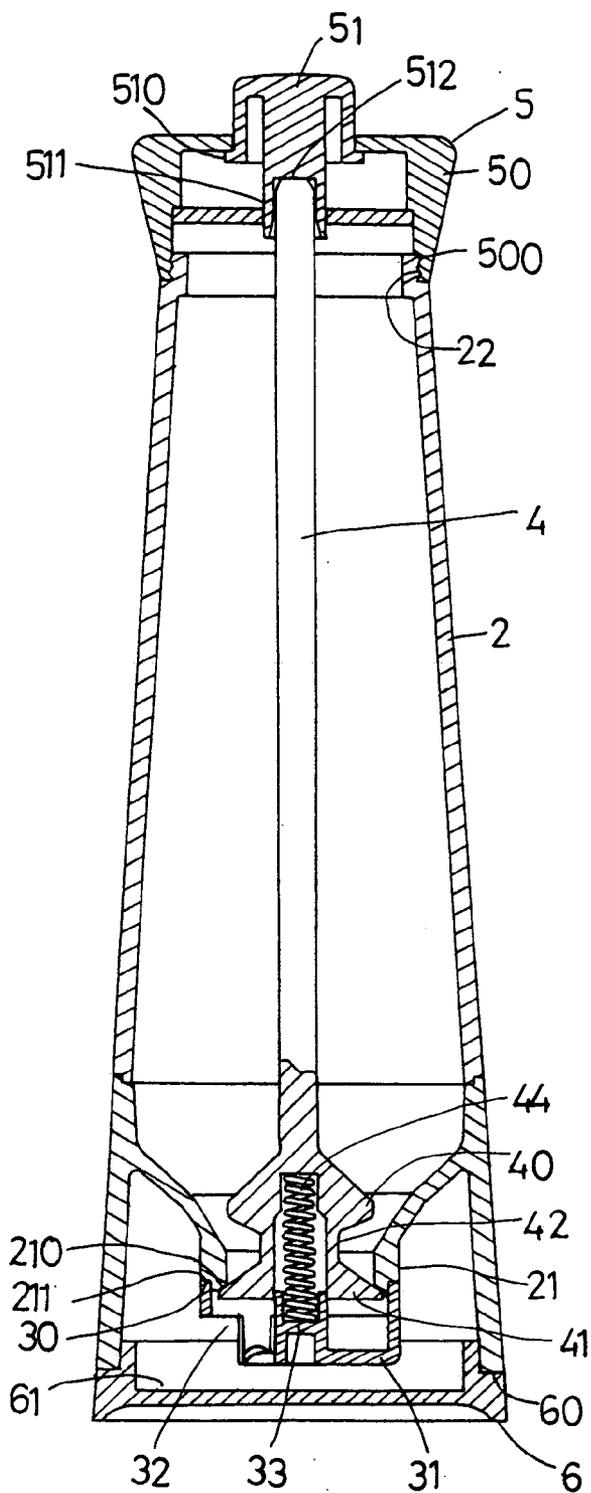


FIG. 4

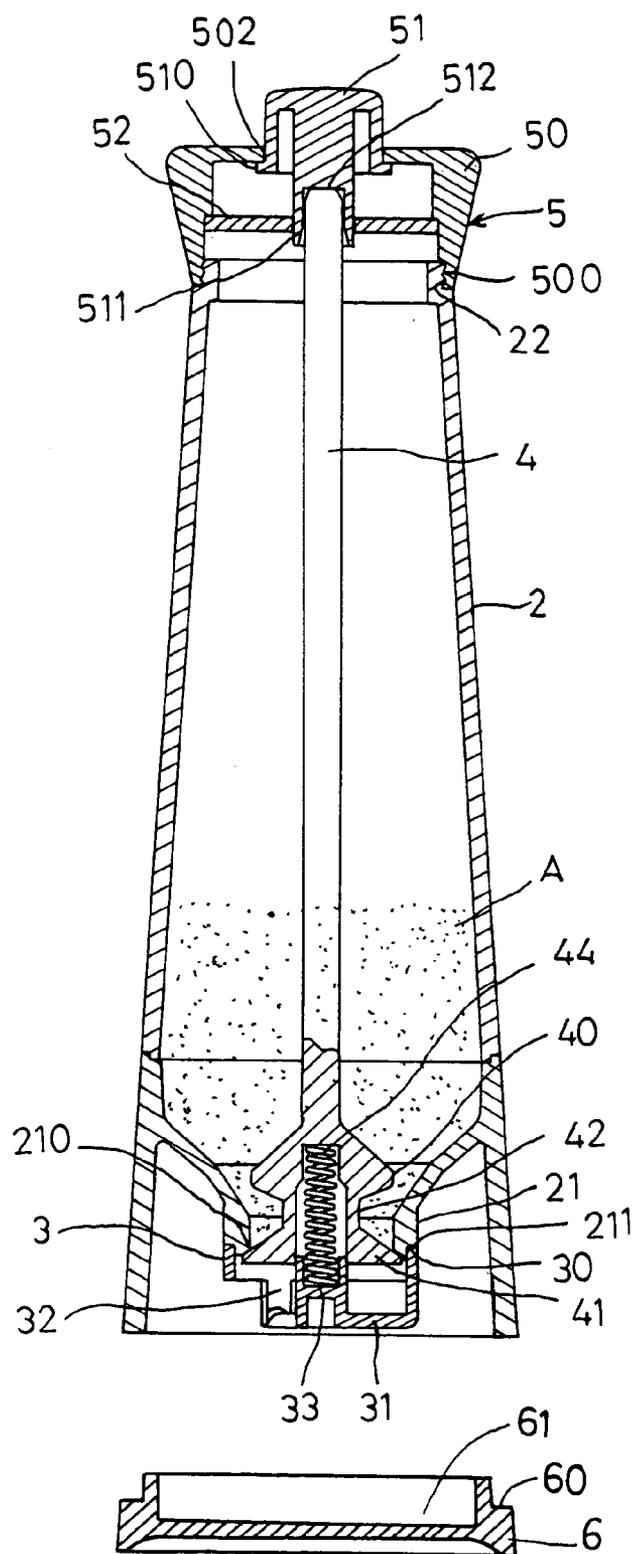


FIG. 5

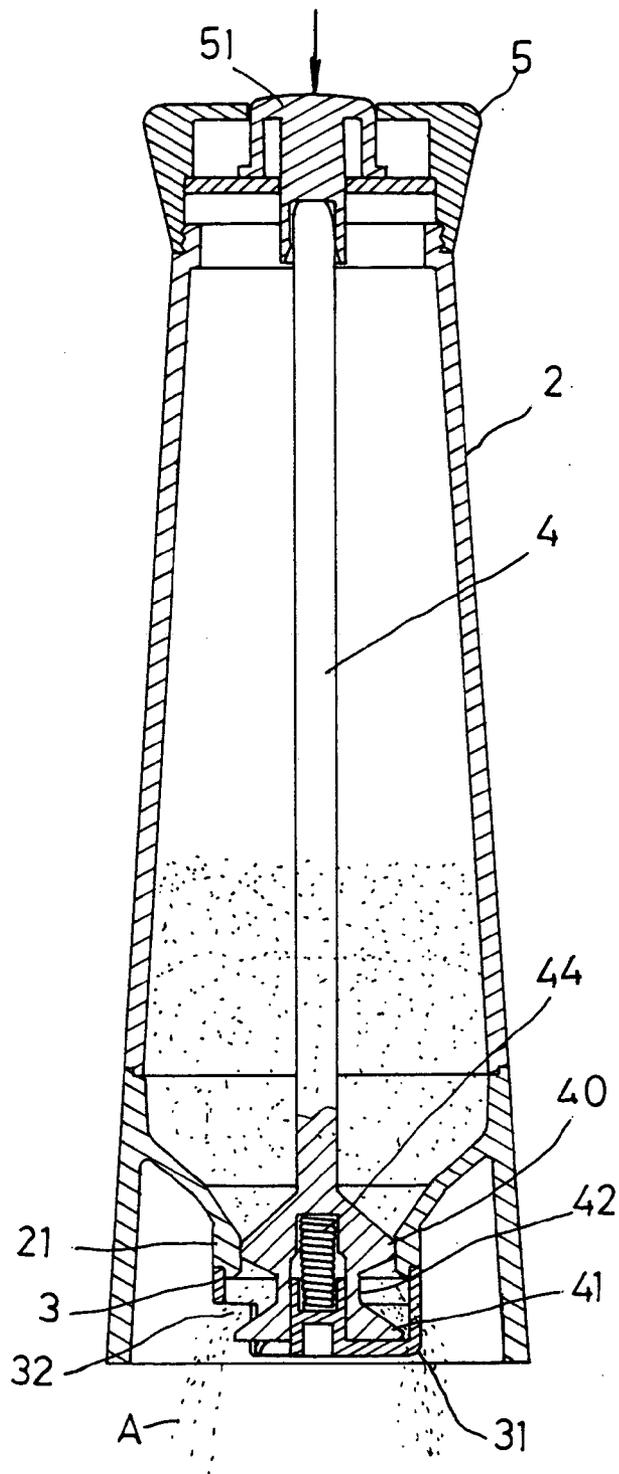


FIG.6

FOOD SEASONING QUANTITATIVE DISPENSER

BACKGROUND OF THE INVENTION

[0001] 1. Field of the Invention

[0002] This invention relates to a food seasoning quantitative dispenser, particularly to one consisting of a body, a supporter, a rod, a cap unit and a base. The body has a hollow chamber for storing seasoning, a conical neck for combining with a supporter provided with plural feet and an outlet between the feet, and the support rod supported on the conical neck with a spring fitting in the bottom hole of the rod and the center tubular member of the supporter, and a cap unit closing the upper end of the body and composed of a cap body, a button and a stop disc. When the button is pressed down once, the seasoning in the annular groove of the rod falls down with a definite amount through the open bottom end of the body to be received on the base closing the open bottom of the body. Thus a user can adjust the amount of the seasoning to be taken out by repeating pressing the button.

[0003] 2. Description of the Prior Art

[0004] Food material such as seasonings, coffer, creamer, sugar, or other very small particle or powder drinks are generally stored in a can **10**, as shown in **FIG. 1**, with a cap **11** closing up the can **10**. In using, a user takes off the cap **11** and uses a spoon **12** to scoop proper amount of the sugar in the can **10** and then pours in a hot coffee, black tea, etc. However, a user cannot take out just the proper amount for use, often either too much or too little than needed. Chances are that a user has to hold the can **1** with one hand and holds a spoon **12** with the other hand for scooping the material in the can, so the user may let the material on the spoon **12** fall down by accident, giving rise to some embarrassment. If worse, the can **10** may be overturned to let the content fall out on the ground to result in a mess.

SUMMARY OF THE INVENTION

[0005] The food seasoning quantitative dispenser in the invention includes a body, a supporter, a center rod, a cap unit, and a base. The body has a hollow chamber for storing seasoning and a conical neck in the lower portion and an engaging member in the upper end. The supporter is located under the conical neck, having an annular wall, plural L-shaped feet extending down from the annular wall, and a center tubular member connected with the lower ends of the feet. The center rod is located vertically in the chamber and supported by the supporter, having two flanges facing the conical neck and an annular groove between the two flanges, and a bottom hole for a spring to fit in and also received in the center tubular member for pushing up the center rod if pushed down. The cap unit consists of a cap body, a button and a stop disc, combined on the open upper end of the body. When the button is pressed down once, the seasoning in the annular groove falls down with a definite amount through the open bottom end of the body to be received in the base. The falling amount is definite for one time of pressing the button. So its amount to be taken out can be controlled by repeating the action of pressing the button.

BRIEF DESCRIPTION OF DRAWINGS

[0006] This invention will be better understood by referring to the accompanying drawings, wherein:

[0007] **FIG. 1** is a perspective view of a conventional food seasoning can;

[0008] **FIG. 2** is an exploded perspective view of a food seasoning quantitative dispenser in the present invention;

[0009] **FIG. 3** is a perspective view of the food seasoning quantitative dispenser in the present invention;

[0010] **FIG. 4** is a cross-sectional view of the food seasoning quantitative dispenser in the present invention;

[0011] **FIG. 5** is a cross-sectional view of the food seasoning quantitative dispenser under a first mode of handling in the present invention; and,

[0012] **FIG. 6** is a cross-sectional view of the food seasoning quantitative dispenser under a second mode of handling in the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0013] A preferred embodiment of a food seasoning quantitative dispenser in the present invention, as shown in **FIG. 2**, includes a body **2** with a hollow chamber **20**, and a conical neck **21** formed under the hollow chamber **20** and sloping down inward, an inner inclined stop surface **210** formed at the lower end of the conical neck **21**, an annular insert edge **211** formed on an outer surface of the conical neck **21**, and an engaging member **22** at the upper end of the body **2**.

[0014] The supporter **3** is located under the body **2**, having an upper annular wall **30** to contact with the insert edge **211** of the conical neck **21**, plural L-shaped feet **31** spaced apart equidistantly and extending down from an upper annular wall **30**, an outlet **32** formed between every two feet **31**, and a central tubular member **33**, which the lower ends of the feet **31** are connected with.

[0015] The center rod **4** is located vertical in the chamber **20** of the body **2**, having an upper and a lower stop flange **40** and **41** facing the conical neck **21** of the body **2**, and an annular groove **42** formed between the two stop flanges **40**, **41**, and a bottom hole **43** opening downward for a spring **44** to fit in. The spring **44** have its upper end pushing against the upper wall of the bottom hole **43**, and its lower end fitted and supported in the hole bottom of the central tubular member **33** of the supporter **3** so that the spring **44** can be compressed when the center rod **4** is pressed down by a button **51** of the cap unit **5**, and elastically pushes up the center rod **4** after the button **51** is released.

[0016] The cap unit **5** is to close on the body **2**, consisting of a cap body **50**, the button **51** and a stop disc **52**. The cap body **50** has an engaging member **500** in a lower inner surface to engage with the engaging member **22** of the body to combine the cap unit **5** with the body **2**, an annular recessed edge **501** on the engaging member **500**, and a center hole **502**. The button **51** extends up out of the center hole **502** of the cap body **50**, having a lower flange **510** with a larger diameter than that of the center hole **502** so as to prevent the button **51** from passing through and falling out of the center hole **502**. The button **51** further has a center post **511** extending downward and having a bottom hole **512** for the upper end of the center rod **4** to fit therein so that the button **51** can press down the center rod **4** for the seasoning in the chamber **20** to fall down. The stop disc **52** is located under the button **51**, having a center hole **520** for the center post **511** of the button **51** to insert in, and contacting with the annular recessed edge **501** of the cap body **50**.

[0017] The base **6** is to close up the open bottom of the body **2**, having a rim **60** to support the annular bottom edge of the body **2** and a central hollow **61** for the supporter **3** to extend therein as suspended.

[0018] In assembling, referring to **FIGS. 2, 3 and 4**, firstly the upper end of the spring **44** is inserted in the bottom hole **43** of the support rod **4** and the lower end of the spring **44** is inserted and supported by the bottom in the central tubular member **33** of the supporter **3**. Then the upper annular wall **30** of the supporter **3** is positioned under the bottom of the conical neck **21** of the body **2** and contacts with the insert edge **211**. Subsequently, the button **51** is combined with the cap body **5**, with the top of the button **51** passing up through the center hole **502**, and with the center post **511** passing down through the center hole **520** of the stop disc **52**. The stop disc **52** is positioned to contact with the annular recessed edge **501**, and the insert hole **512** of the button **51** is fitted with the top of the center rod **4**. Finally the cap body **50** has its engaging member **500** engaged with the engaging member **22**, and the base **6** is closed on the open bottom of the body **2**, finishing the assembly of the food seasoning quantitative dispenser.

[0019] In using, referring to **FIGS. 4, 5 and 6**, a user fills food seasoning (A), coffee, creamer, sugar, etc., in the chamber **20** of the body **2**, and when a user wants it, he/she presses down the button **51** of the cap unit **5** to lower the support rod **4**, compressing the spring **44** to compel the upper and the lower flanges **40** and **41** move down so as to let the annular groove **42** communicate with the outlets **32**. Then the food seasoning (A) located in the annular groove **42** may fall down through the outlets **32** and down in the base **6**. So the fallen seasoning is definite in its amount for one time of pressing the button **51**, and a user can push the button **51** for plural times to get the needed amount. If the button **51** is released, the spring **44** recovers its resilience, pushing up the center rod **4** to its original position, with the lower flange **41** moved up to contact with the stop edge **210** of the conical neck **21** so as to stop the seasoning (A) in the body **2** from falling down.

[0020] Further, the central hollow **61** of the base **6** can receive very fine or powder seasoning (A) in case of falling during not used condition, convenient for keeping clean and for cleaning. Of course, the base **6** can be used for receiving the fallen seasoning (A) in case of the button **51** is pressed so that the seasoning (A) on the base **6** may be poured in a cup for drinking.

[0021] The invention has the following advantages, as can be understood from the foresaid description.

[0022] 1. The amount to be taken out can be controlled.

[0023] 2. The button **51** can be repeatedly pressed for adjusting the amount to be taken out.

[0024] 3. As the conical neck is stopped by the stop flanges of the support rod, preventing the seasoning in the body from leaking out, and preventing the large area of the seasoning in the body from contacting with air so as not to harden.

[0025] 4. The amount to be taken out by one time of pressing the button is definite, so a user can adjust the needed amount by repeating the action of pressing the button.

[0026] 5. The base can receive seasoning falling down in case of the button being not in use, keeping clean the table and convenient for cleaning as well.

[0027] 6. The base also can receive the falling seasoning in its center hollow in case of the button pressed for taking it out for use.

[0028] While the preferred embodiment of the invention has been described above, it will be recognized and understood that various modifications may be made therein and the appended claimed are intended to cover all such modifications that may fall within the scope of the invention.

What is claimed is:

1. A food seasoning quantitative dispenser comprising:

a body having a hollow chamber, a conical neck formed in a lower portion, and an engaging member formed in an upper end;

a supporter located under said conical neck of said body, having plural L-shaped feet spaced apart equidistantly and extending down, an outlet formed between every two of said L-shaped feet, and a central tubular member which said plural L-shaped feet have their lower ends connected with;

a center rod located vertically in the center of said chamber of said body, having an upper and a lower flange, an annular groove formed between said upper and said lower flange, a bottom hole formed in the bottom and opening downward, and a spring fitted in said bottom hole with its upper end pushing against the upper end of said bottom hole and with its lower end fitting in and supported by the bottom of said central tubular member; and,

a cap unit combined in the upper end of said body, having a cap body, a button, and a stop dick, said cap body having an engaging member, a center hole in the upper wall, said button extending up through said center hole of said cap body and having a center post extending down and provided with a hole opening downward to fit with the top end of said center rod.

2. The food seasoning quantitative dispenser as claimed in claim 1, wherein said conical neck of said body is provided with an annular sloped stop surface at the bottom end and an annular contact edge on the outer surface at the bottom end.

3. The food seasoning quantitative dispenser as claimed in claim 1, wherein said supporter has an annular top edge to fit with the annular contact edge of said conical neck of said body.

4. The food seasoning quantitative dispenser as claimed in claim 1, wherein said engaging member of said body is male threads, and said engaging member of said cap body is female threads to engage with said male threads of said body so that said cap body is secured with said body.

5. The food seasoning quantitative dispenser as claimed in claim 1, wherein cap body has an annular recessed edge, and said button has a flange in the lower end, and said flange has a larger diameter than that of said center hole of said cap body so as to prevent said button from passing through said center hole and falling off, and said stop disc of said cap unit is combined with said button by means of said center post of said button fitting in a center hole of said stop disc, and said stop disc contacts with said annular recessed edge of said cap body.

6. The food seasoning quantitative dispenser as claimed in claim 1, wherein a base is further provided to close up the open bottom of said body, having a rim to receive the bottom end of said body and a central hollow for receiving falling seasoning from said body.