May 19, 1959 F. MENDERMAN 2,887,254

MEASURING AND POURING DEVICE

Filed Sept. 10, 1957

Fig. 1

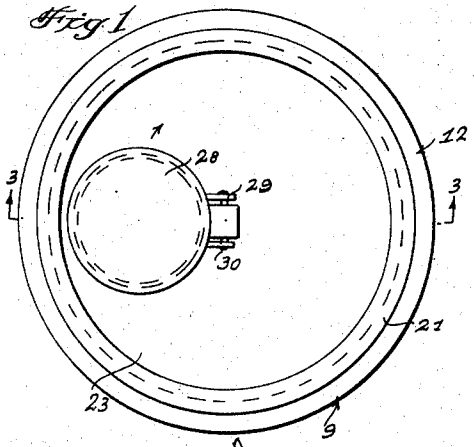
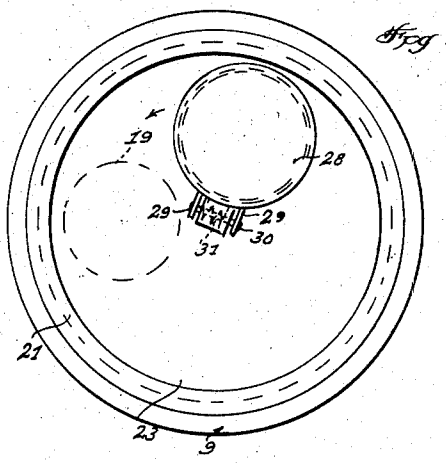



Fig. 2



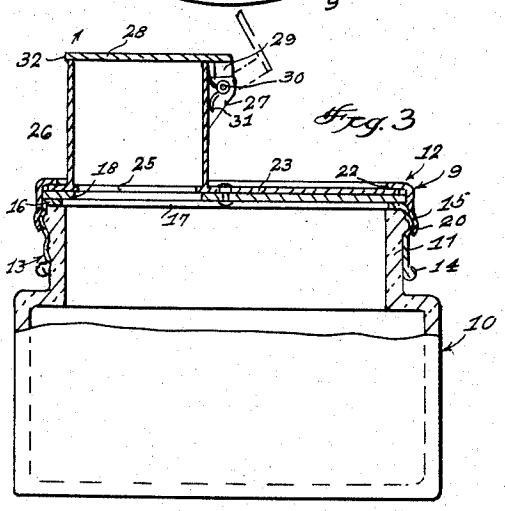




Fig. 3

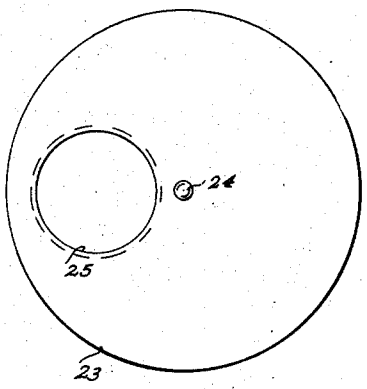



Fig. 5.

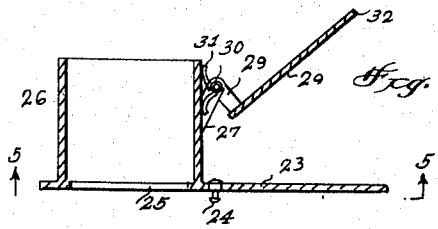



Fig. 4.

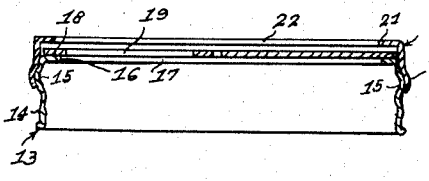



Fig. 6.

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United States Patent Office 2,887,254 Patented May 19, 1959



2,887,254

# MEASURING AND POURING DEVICE

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Application September 10, 1957, Serial No. 683,073

3 Claims. (Cl. 222—450)

This invention relates to a measuring and pouring device which is adapted to be mounted on a container whereby a measured amount of the material in the container can be readily poured or dispensed.

The object of the invention is to provide a device which is adapted to be releasably connected to the neck of a container such as a container holding material which is to be dispensed such as foodstuffs, and wherein the device is constructed so that a predetermined quantity of the material can be dispensed as desired, and wherein when the material is being dispensed, the remaining material in the container is kept in an airtight area so that the bulk or major portion of the material will not deteriorate or be exposed to the air or other detrimental substances.

A still further object of the invention is to provide a measuring and pouring device which is in the nature of a closure that is adapted to be releasably or threadedly mounted on the threaded neck of a container holding any desired type of material to be dispensed, and wherein the device of the present invention includes a body portion which is of a size to receive a predetermined amount of material from the container, so that by tilting the container the body portion can be filled with the material to be dispensed, and then a manual movement is sufficient to close off or seal off the container whereby the contents of the body portion can be readily dispensed or discharged without exposing the material in the container to air or the like whereby the material in the container will be kept in a more stable condition for longer periods of time and without deterioration.

A further object of the invention is to provide a measuring and pouring device which is extremely simple and inexpensive to manufacture.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings, forming a part of this application, and in which like numerals are used to designate like parts throughout the same.

Figure 1 is a plan view showing the measuring and pouring device in open position.

Figure 2 is a view similar to Figure 1, but showing the parts shifted and in closed position.

Figure 3 is a sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a vertical sectional view taken through the upper disk and body member and showing the cover for the body member in open position.

Figure 5 is a sectional view taken on the line 5—5 of Figure 4.

Figure 6 is a vertical sectional view taken through the closure and showing the lower stationary plate as well as the collar which forms a retaining means for the rotary disk of Figure 4.

Referring in detail to the drawings, the numeral **10** indicates a container which is adapted to hold any desired type of material that is to be dispensed such as a suitable foodstuff, and the container **10** is of the type that includes a neck **11** which is threaded externally, Figure 3. The present invention is directed to a measuring and pouring device which is indicated generally by the numeral **12**, and the device **12** includes a closure **13**. The closure **13** comprises an annular side wall **14** which is provided with a threaded portion as at **15** for threadedly engaging the threaded neck **11** of the container **10**. Extending inwardly from the side wall **14** adjacent the upper end thereof is a circular shoulder **16**, Figure 6, and the major central inner portion of the shoulder **16** is open as at **17**. The shoulder **16** provides a support for a circular stationary plate **18**. The plate **18** is provided with a circular opening **19**, and the opening **19** is offset from the center of the plate **18**.



The measuring and pouring device **12** further includes a collar **9**, which includes a circular wall portion **20** that surrounds the upper portion of the wall **14** and which is secured thereto in any suitable manner, as for example by means of a suitable adhesive. Extending inwardly from the upper edge of the wall portion **20** of the collar **19** is a circular flange **21**, and the major central inner portion of the flange **21** is open as at **22**.

The numeral **23** indicates a circular rotary disk which is rotatably mounted in the space between the flange **21** and the stationary plate **18**. A pivot pin **24** serves to rotatably or pivotally connect the disk **23** to the plate **18**, and the disk **23** is provided with a circular opening **25** which is offset from the center of the disk **23**.

Extending upwardly from the disk **23** and secured thereto or formed integral therewith is a cylindrical body member **26**, and lugs **27** are secured to the outer surface of the body member **26** as shown in Figure 4. The numeral **28** indicates a cover or lid which is mounted for movement into and out of opening and closing relation with respect to the upper end of the body member **26**, and the cover **28** has lips or ears **29** extending therefrom, the ears **29** being pivotally connected to the lugs **27** through the medium of a pivot pin **30**. A spring member **31** is mounted on the pin **30**, and the spring member **31** serves to normally urge or bias the cover **28** into closing relation with respect to the upper open end of the body member **26**. The numeral **32** indicates an edge portion of the cover **28** which can be readily gripped by a person's finger when the cover **28** is to be moved to the open position against the tension of the spring **31** as for example when the material in the body member **26** is to be dispensed.

From the foregoing, it is apparent that there has been provided a measuring and pouring device which is adapted to be used with a container such as the container **10**. In use, the device is adapted to be arranged so that the closure **13** has its threaded portion **15** threadedly engaging the neck **11** of the container **10**. With the parts arranged as shown in Figures 1 and 3, when a measured quantity of material from the container **10** is to be dispensed, the container **10** can be inverted so that the material from the container **10** will pass through the opening **19** in the plate **18**, and then this material will pass through the aperture **25** in the disk **23** and this material will enter and fill the body member **26**. This material cannot flow out of the body member **26** due to the fact that the cover **28** is in closed position as shown in solid lines in Figure 3. After the body member **26** has been filled with the material from the container **10**, the body member **26** and disk **23** are rotated from the position shown in Figures 1 and 3 to the position shown in Figure 2 whereby the aperture **25** will move out of registry with the opening **19** in the stationary plate **18**, the disk **23** being rotatably connected to the stationary plate **18** through the medium of the pivot pin **24**. Thus, after the aperture **25** moves away from the opening **19**, the material in the body member **26** will be sealed off. Then, by opening the cover **28** as

for example by engaging the finger at the point **32**, the cover **28** can be moved from the solid line position shown in Figure 3 to the broken line position shown in Figure 3 whereby the material in the body member **26** can be readily dispensed into any desired area or container. As soon as pressure is released on the cover **28**, the spring member **31** will urge or return the cover **28** back to closed position as indicated by solid lines in Figure 3. This cycle of operations can be repeated each time a measured or predetermined quantity of material from the container **10** is to be dispensed. It is to be noted that the shoulder **16** and flange **21** provide a guideway therebetween for the stationary plate **18** and the rotary disk **23**. The collar **9** which includes the flange **21**, is adapted to be secured to the outer surface of the wall **14** in any suitable manner, as for example by means of a suitable adhesive.

The measuring and pouring device **12** can be readily removed from a container such as the container **10** so that it can be mounted on a plurality of different containers as desired so that the device can be used over and over again, even after the contents of one container have been emptied or dispensed.

Since the parts are in the position shown in Figure 2 when the material from the body member **26** is being dispensed, it will be seen that the opening **19** in the plate **18** is closed when the cover **28** is opened and this serves to insure that excess air will be kept from the material in the container **10** whereby deterioration of the material in the container **10** will be prevented.

The device can be used for measuring and pouring any desired type of material such as instant coffee, and wherein the device will fit various types of jars or containers, and the device can also be used for other purposes such as for handling other types of foodstuffs such as fine ground cereal, fruit juices, ice water, or anything else that is to be poured, and the device can be made of any suitable material such as plastics. Also, the parts can be made in different sizes or shapes. The device is arranged so that the material in the container **10** will be kept free of dampness as well as insects or the like, and the cup or body member **26** can be filled when the jar or container is in inverted position and then by moving the disk **23** on the plate **18**, the cup **26** is ready to empty so that the contents of the container or jar **10** are not exposed to the adverse effects of air to dampness. Also, the device can be easily cleaned or washed and the device is inexpensive to manufacture.

I claim:

1. In a measuring and pouring device for a container having a threaded neck, a closure including an annular side wall which is provided with threads for engagement with the threads of said neck, a circular shoulder extending inwardly from the upper end of said side wall and said shoulder defining an opening in said closure, a circular plate mounted on said shoulder and provided with an opening which is offset with respect to the center of the plate, a collar having a portion thereof surrounding the upper portion of the side wall of the closure and secured thereto, a circular flange extending inwardly from the upper edge of said collar and said flange defining an opening in said collar, a rotary circular disk arranged above said plate and rotatbly connected thereto and said disk being retained in place by said flange, there being a circular aperture in said disk which is arranged offset from the center thereof, said aperture being mounted for movement into and out of registry with the opening in said plate as said disk is rotated, a cylindrical body member extending upwardly from said disk and secured thereto, said body member surrounding said aperture, lugs secured to the outer surface of said body member adjacent the upper end thereof, a cover mounted for movement into and out of closing relation with respect to the upper end of said body member, ears secured to said cover and said ears being pivotally connected to said lugs, and a spring member for normally urging said cover into closing relation with respect to said body member.

2. In a measuring and pouring device, a closure including an annular shoulder, a collar secured to said closure and including a circular flange, a stationary plate positioned between said flange and shoulder and provided with an opening, a disk arranged above said plate and said disk being positioned below said flange, said disk being provided with an aperture which is mounted for movement into and out of registry with the opening in said plate, a body member extending upwardly from said disk and secured thereto, and a cover mounted for movement into and out of opening and closing relation with respect to said body member.

3. In a measuring and pouring device, a closure including an annular shoulder, a collar secured to said closure and including a circular flange, a stationary plate positioned between said flange and shoulder and provided with an opening, a disk arranged above said plate and said disk being positioned below said flange, said disk being provided with an aperture which is mounted for movement into and out of registry with the opening in said plate, a body member extending upwardly from said disk and secured thereto, a cover mounted for movement into and out of opening and closing relation with respect to said body member and a spring member for normally urging said cover into closing relation with respect to said body member.

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