Feb. 13, 1940. C. L. ZELLERS 2,190,111

COFFEE MEASURING DEVICE

Filed Aug. 3, 1938 2 Sheets-Sheet 1

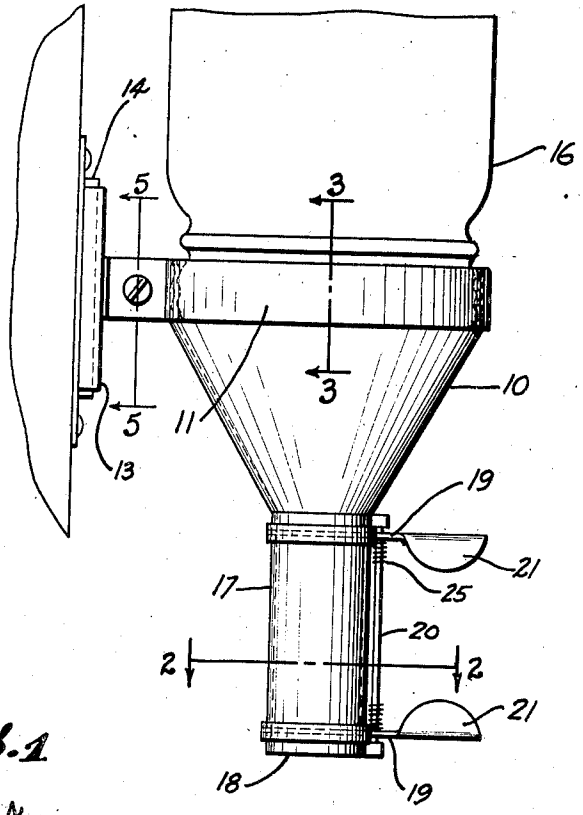


Fig. 1

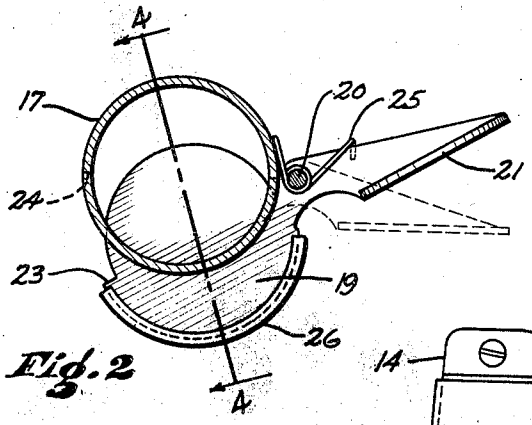


Fig. 2

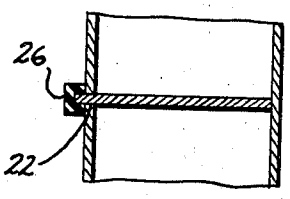


Fig. 4

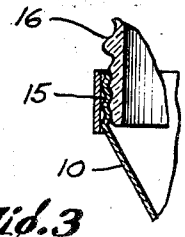


Fig. 3

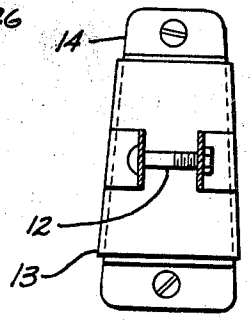


Fig. 5

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Feb. 13, 1940. C. L. ZELLERS 2,190,111

COFFEE MEASURING DEVICE

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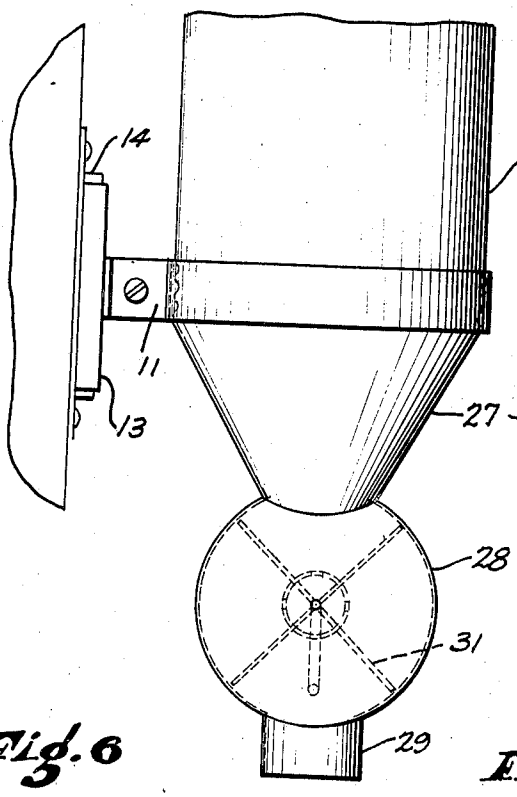


Fig. 6

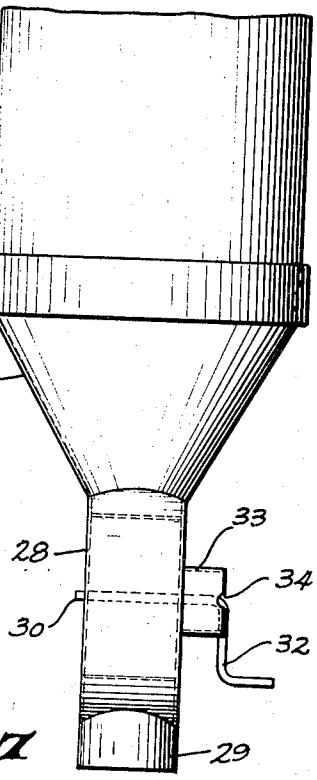


Fig. 7

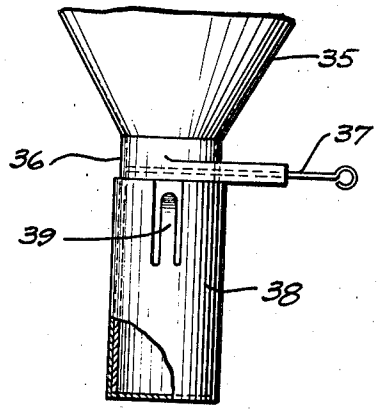


Fig. 8

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Patented Feb. 13, 1940 2,190,111

UNITED STATES PATENT OFFICE

2,190,111

COFFEE MEASURING DEVICE

Clark L. Zellers, Maywood, Calif.

Application August 3, 1938, Serial No. 222,933

1 Claim. (Cl. 221—106)

This invention relates to dispensers and more particularly to measuring dispensers for coffee and similar products.

An object of the invention is to provide a simple, practical and inexpensive device of the character described.

Another object is to provide a dispenser for coffee and the like adapted for measuring exact quantities of the same.

A further object is to provide a dispenser of the character described wherein the bulk of the undispensed coffee is retained in an airtight container thus retaining its freshness.

A further object is to provide a dispenser of the character described in which varying amounts of the dispensed product may be dispensed.

Other objects and advantages will appear and be brought out more fully in the following specification, reference being had to the accompanying drawings wherein:

Fig. 1 is a side view of a dispenser embodying my invention.

Fig. 2 is an enlarged sectional view taken along the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary sectional view taken along the line 3—3 of Fig. 1.

Fig. 4 is a sectional view taken along the line 4—4 of Fig. 2.

Fig. 5 is a sectional view taken along the line 5—5 of Fig. 1.

Fig. 6 is a side view of a modified form of the invention.

Fig. 7 is a front view of the same and

Fig. 8 is a side view of a further modified form.

Referring more particularly to the drawings and especially to Figs. 1 to 5, I show a dispenser 10, conical in shape and secured by clamp ring 11 and a lock bolt 12 to a removable bracket member 13 adapted for detachable engagement with a fixed bracket member 14 secured to a wall or other suitable attaching surface. Dispenser 10 is provided with a screw thread 15 to which may be secured a jar or other container 16 containing a supply of the coffee or other material to be dispensed. It will be understood that the container 16 may be attached to dispenser 10 by other means than the screw threads 15 if desired. A neck 17 is secured to dispenser 10 and has a discharge outlet 18. A pair of valves 19 are pivotally mounted on a shaft 20 attached to neck 17 and each valve is provided with an operating finger piece 21. Neck 17 has a pair of semi-circular slots 22 to admit valves 19 and each of the latter has an abutment 23 for engagement with an edge 24 of slot 22 to limit the closed position of the valves. Springs 25 serve to keep the valves in normally closed position. A guard 26 of rubber or other suitable material is secured along the exposed edge of each valve 19 and serves to cover slot 22 and keep the interior of the neck and dispenser airtight.

The operation of the invention as thus far described is thought to be obvious.

Bracket member 13 is separated from member 14 inverted and secured to the container 16 in the usual manner. The assembly is then reversed and secured in position by re-engagement of bracket members 13 and 14. The coffee or the other material in the container is thus dropped to the upper valve 19, which when opened, will permit neck 17 to fill with coffee and the upper valve is then closed by action of its spring 25. A measured amount of coffee as contained in neck 17 can next be dispensed into the coffee maker by opening the lower valve 19. In this manner, a definite amount of coffee is always dispensed and all of the coffee is retained in an airtight container and kept fresh.

In Figs. 6 and 7 I show a somewhat modified form of the invention. A conical dispenser 27 is shown having a securing ring 11 similar to dispenser 10. A cylindrical dispensing chamber 28 is connected to the lower end of dispenser 27 and is provided with a discharge neck portion 29. A shaft 30 mounted between the side walls of cylinder 28 carries a paddle wheel 31 and a crank 32 secured to or formed integrally with shaft 30 provides the rotating means therefor. A hub 33 may if desired be secured to cylinder 28 and may have a plurality of notches 34 adapted for indexing the paddle wheel 31. The operation of this form of the invention is thought to be clear from the description. Paddle wheel 31 is adapted when turned a quarter turn or other fraction determined by the indexing means 34 to dispense a measured quantity of coffee or other dispensed material. As in the previously described form, coffee is retained out of contact with the room air and is maintained in a fresh condition at all times.

In Fig. 8 I show a further modified form of dispenser wherein the conical part of the dispenser is indicated at 35 and has connecting to it an elongated neck 36 in the upper portion of which is suitably mounted a slide valve 37. A cup or receptacle 38 is secured to neck 36 by one or more spring clips 39 having a friction or indexed engagement with the side of neck 36.

From the description of this form of my invention, it will be apparent that cup **38** may be positioned at various points along neck **36** and thus varied amounts of coffee or other product may be dispensed.

It will be understood that the foregoing description is illustrative only of my invention and that changes and modifications may be made without departing from the spirit and scope of the subjoined claim.

Having described my invention, what I claim is:

A measuring dispenser for granular material and comprising an annular threaded upper portion adapted to threadedly receive the open end of a container for said material, a conical portion formed on and depending from the threaded upper portion with its small end lowermost and for receiving material from the container, a relatively narrow cylindrical portion including vertical side walls and having its cylindrical wall formed on the small end of the conical portion, a neck depending from the cylindrical wall diametrically opposite said small end and providing a discharge spout, a shaft bridging the side walls, paddle members secured to and radiating from the shaft for disposal in wiping engagement with the cylindrical wall and side walls to provide pockets for individual registration with the conical portion to receive material therefrom and to carry the same for disposal through the discharge spout, a hub formed on and extending laterally from one side wall and having notches in its outer face radiating from the center thereof, said shaft being journaled centrally in the other side wall and the hub, a crank portion providing a handle for rotating the shaft and receivable in any one of said notches for holding opposed pockets in registration with the conical portion and the discharge spout respectively, and mounting means for the dispenser and surrounding the annular upper portion thereof.

CLARK L. ZELLERS.