Dec. 15, 1925. 1,566,169

D. H. SANKEY ET AL

DISPENSING DEVICE

Filed Sept. 19, 1925

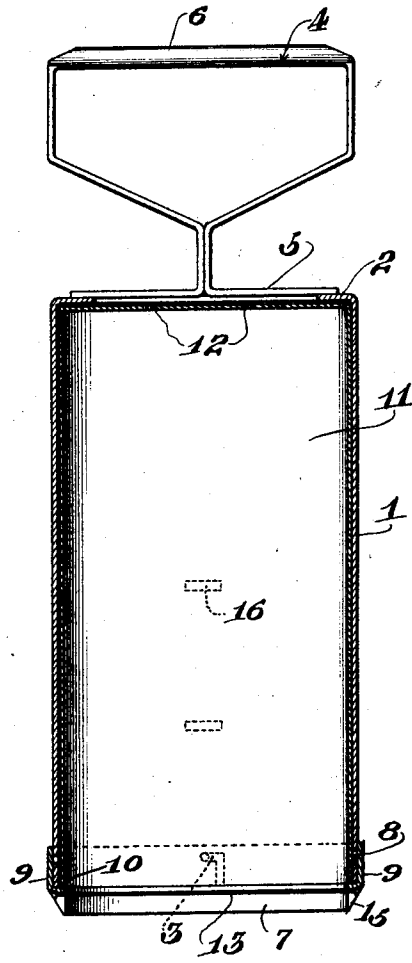
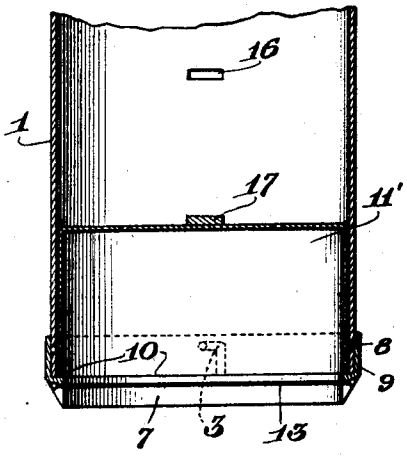


Fig. 1.

Fig. 2.



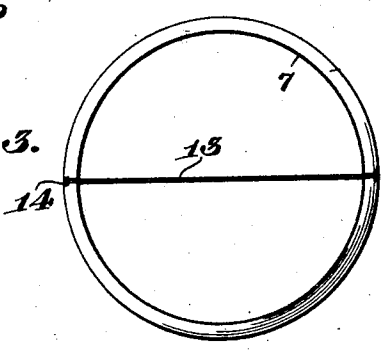


Fig. 3.

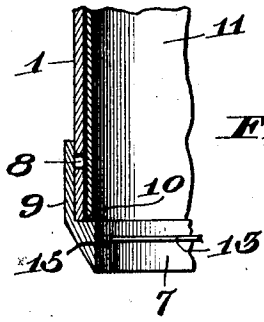


Fig. 4.

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Patented Dec. 15, 1925. 1,566,169

UNITED STATES PATENT OFFICE.

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DISPENSING DEVICE.

Application filed September 19, 1925. Serial No. 57,471.

To all whom it may concern:

Be it known that we, DAVID H. SANKEY and HARRY BROOKS, citizens of the United States of America, residing at Pittsburgh, county of Allegheny, State of Pennsylvania, have invented certain new and useful Improvements in Dispensing Devices; and we do hereby declare that the following is a full, clear, concise, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in predetermined measured dispensing devices for ice cream, ices, and similar delicacies, having for an object to provide a dispensing device of this character of such construction as to be adapted to cut into a mass of ice cream and remove a measured quantity therefrom, the ice cream or other matter being directed into a suitable container therefor placed in the device previous to its engagement with the mass, hence, effecting the heretofore practiced method of measuring, cutting, and filling a measure or container in a single operation as well as bringing about a material saving of time and effort upon part of a user.

It is likewise an equally important object of the invention to provide a dispensing device in connection with which containers of different content or capacity may be placed therein at will by a user.

Yet another object of the invention is to provide the device with means for easily and thoroughly removing any and all excess ice cream or other matter being dispensed therewith at a point flush with the lower or receiving end of the receiving container, hence, avoiding loss upon part of a seller, as well as ensuring heat and sanitary filling of said container to its maximum content.

Other objects of the invention will be in part obvious, and in part pointed out hereinafter.

In order that the invention and its mode of operation may be readily understood by persons skilled in the art, we have in the accompanying illustrative drawings, and in the detailed following description based thereupon set out one possible embodiment of the same.

In these drawings:—

Figure 1 is a vertical section through the improved dispensing device;

Figure 2 is a fragmentary detail in vertical section showing the manner in which the cutting wire is anchored to the opposite side of the cutting ring or knife;

Figure 3 is an end view of the cutting ring or knife; and,

Figure 4 is an enlarged fragmentary detail in vertical showing section the manner in which the sides of the cutting ring or knife are connected to the lower end of the shell-like retaining body.

Having more particular reference to the drawings, in connection with which like characters of reference will designate corresponding parts throughout, the improved dispensing device may be stated to comprise a shell or tubular-like elongated body 1 preferably formed of sheet metal or other suitable material possessing the necessary rigidity, and being substantially circular in cross section in the embodiment shown for illustration herein. At this point, it is timely to note, however, that the cross sectional shape of the shell-like body may be varied, such as conditions or preference may dictate, without deviating, in any material sense, from the spirit of the invention. One end of the retaining body 1 is open, while the opposite or upper end thereof is partially closed by inturning portions thereof and forming a circular inwardly disposed flange 2 thereupon. Marginally opening bayonet slots 3 are formed in the lower portion of the retaining body 1, while to facilitate handling of the device with usage of the same, a handle 4 is provided the normal upper end thereof, such handle being preferably formed of a single piece of material bent upon itself in loop-shaped fashion, as is shown in the Figure 1, and having right angularly disposed extremities 5 formed upon its opposite ends and disposed transversely of the partially open normal upper end of the body 1 and connected thereto in a suitable manner. The handle portion proper of the handle 4 may and preferably does have the opposite sides of the same curved, as is indicated by the numeral 6, whereby to prevent cutting or injury to the hand of a user of the device.

With a view towards providing the dispensing device with means for permitting the cutting into a mass of ice cream, ice, or similar matter, in order that a measured quantity of the same will be directed into the mouth of a container supported within the body thereof, a circular cutting ring or knife 7 is provided, the same being of a cross sec-

tional size such as to permit of its snug engagement over the outer surface of the normal lower end of the body 1 as is indicated in the Figures 1 and 2, inwardly projecting fingers or lugs 8 being fixedly carried upon the inner surface of an outwardly disposed circular flange 9 formed upon the upper portion of said knife 7 adapted to be engaged in the bayonet slots 3, aforesaid. Thus, it will be understood that with longitudinal introduction of the lugs 8 into the marginally opening bayonet slots 3 followed by lateral movement of the same into the right angular portions of said slots, the cutting ring or knife 7 will be securely, yet removably connected to the normal lower end of the shell-like retaining body 1. In this connection, it is to be also noted that the jointure of the circular up-standing flange 9 with the ring 7 is such as to form an inwardly projecting shoulder 10 upon this particular element, such shoulder extending inwardly of and beyond the inner surface of the retaining body 1, as is clearly shown in the Figures 2 and 4, thus affording an effectual supporting ledge for the lower marginal portion and open end of a receiving container 11 adapted to be snugly received within the retaining body in the manner shown in the Figures 1, 2 and 4 and to prevent longitudinal displacement of the same during the cutting of the dispensing device into a mass of matter from which a measured quantity is adapted to be removed and directed into the device. Likewise, it is of moment to note that the width of the ledge or shoulder 10 is such as to cause its extension for a distance slightly beyond the inner surface of the side walls of the container 11 and beyond the marginal portion of the open or receiving end thereof. Hence, the breaking of this marginal portion of the container 11, by incurring engagement with a mass of matter to be dispensed will be prevented.

To facilitate the effectual filling of a container 11 with the improved dispensing device, the bottom and normal upper end of the same is preferably formed with perforations 12 whereby to permit of the escape of air therefrom during the forcing of a mass of matter thereinto as well as to permit of the passage of a slight amount of matter through the openings or to render the same visible through such openings in order that a user of the device may definitely ascertain when the container has been properly filled. Thus, it will be appreciated that the partially open normal upper end of the retaining body 1 not only serves as an effectual stop or rest for the normal upper end or bottom of the container 11, but likewise, provides a window through which the bottom of said container may be observed in order that a user may ascertain when the same has been properly filled.

To effect the even and clean cutting of a mass of matter directed into the retaining body 1 and the container 11 from the main body of the same following proper filling of the container 11, there is provided the cutting ring or knife 7 with its diametrically disposed cutting wire 13, forming enlarged portions or head-like ends 14 upon the opposite extremities thereof which, in turn, are adapted to be engaged in marginally opening slots 15 formed in the ring or knife 7 in the manner as indicated in the Figures 2 and 3; the heads 14 being snugly received in suitable teeth formed in the outer portions of the slots 15 and serving to maintain the wire in a taut diametrical position.

During usage of the improved dispensing device, it will often times occur that containers of different content or capacity will be desired for filling therewith, and in order that the device may be adapted to properly receive and fill such containers of different content, diametrically disposed and aligned pairs of slots 16 are formed in the side walls of the retaining body 1 and are adapted to receive therethrough a stop bar 17, the opposite ends, of course, being anchored in the adjacent portions of the diametrically opposite side walls of the body 1, while one side of the stop bar or flattened strip 17 is adapted to abut the outer surface of the bottom of the particular container 11′ received therein in the manner as indicated in the Figure 2. Thus, it will be understood that the open or receiving end of the container 11′ will be maintained in proper engagement with the inwardly extending shoulder 10 of the ring or knife 7 and by consequence, that proper or effectual filling of the same will be ensured with cutting of the device into a mass of matter to be dispensed thereinto.

In usage of the improved device, the cutting ring or knife 7 is removed from the normal lower end of the retaining body 1 whereupon a container 11 or 11′ is placed in the body, the open end thereof being so positioned as to have its marginal portions resting upon the annular shoulder 10 aforesaid. At this time, the fingers or lugs 8 of the flange 9 of the ring or knife 7 are engaged in the bayonet slots 3 and then turned so as to effectually connect the same to said body. Following this, the handle 4 is engaged by a user and the device is forced downwardly and turned into the mass of ice cream or other matter to be dispensed into the device, causing a portion of the matter to be forced upwardly by the cutting knife into the container 11 by way of the receiving end thereof until said container is fully filled, whereupon a portion of the dispensed matter will pass through the perforations 12 or will be visible therethrough to a user, who, in this way, ascertains that

the container is properly filled. Following this condition, the device is then rotated in a preferably horizontal plane so as to cause the wire 13 to be passed through the body of the mass to and thus separate the same at a point flush with the open or receiving end of the container 11 or 11′, thereby avoiding loss upon part of a seller as well as ensuring neat and sanitary filling of the container to its maximum content.

Manifestly, the construction shown is capable of considerable modification, and such modification as is within the scope of our claims, we consider within the spirit of our invention.

We claim:

1. A dispensing device comprising a carton retaining body having one end fully open and cutting means removably engaged with said end, a handle connected to the opposite end of the body, said body having pairs of diametrically arranged openings formed in the side walls thereof spaced longitudinally throughout its length, and a stop bar removably receivable in said pairs of openings.

2. A dispensing device comprising a carton retaining body having one end thereof fully open and the opposite end of the same formed with an inwardly disposed flange and partially open, a handle secured to the partially open end of said body and spaced in longitudinal alignment therewith, a cutting ring formed with a circular up-standing flange adapted to be engaged over the fully open end of said body, inwardly projecting fingers carried on said flange adapted to be engaged in marginally open bayonet slots formed in the lower end of said body, diametrically arranged pairs of openings formed in the side walls of said body, a stop bar removably received in said pairs of openings, said cutting ring having an inwardly arranged annular shoulder formed thereon projecting inwardly of and beyond the inner surface of said body and the container, and a cutting wire positioned diametrically of the cutting ring and having its opposite ends removably anchored therein.

In witness whereof we have hereunto set our hands.

DAVID H. SANKEY.
HARRY BROOKS.