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F. K. KRAG
FOOD DISPENSING DEVICE

2,101,075

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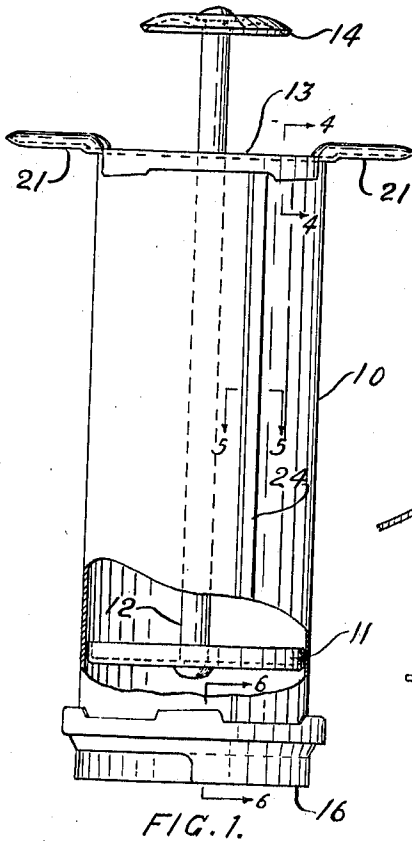


FIG. 1.

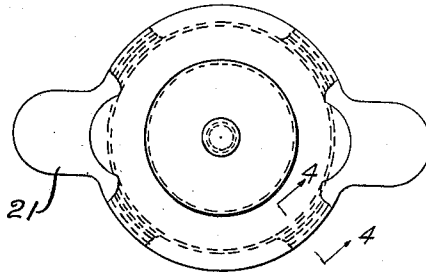


FIG. 2.

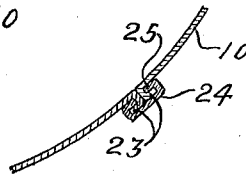


FIG. 5.

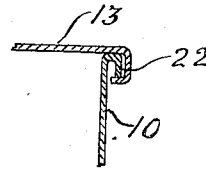


FIG. 4.

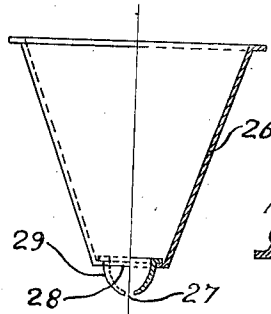


FIG. 8.

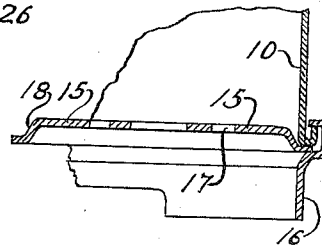


FIG. 7.

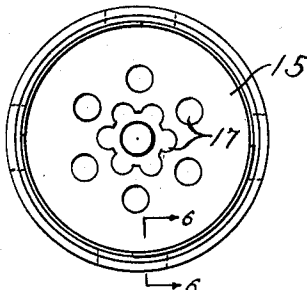


FIG. 3.

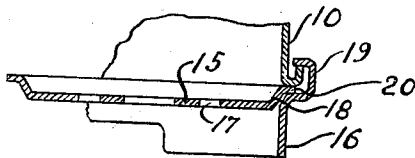


FIG. 6.

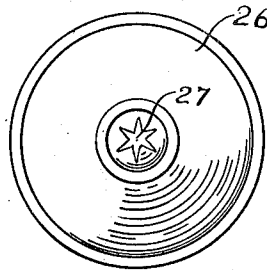


FIG. 9.

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UNITED STATES PATENT OFFICE

2,101,075

FOOD DISPENSING DEVICE

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Application June 3, 1935, Serial No. 24,679

1 Claim. (Cl. 107—52)

This invention relates to dispensing devices, and particularly to devices for dispensing and forming batter for making cookies, and for dispensing and forming layers of whipped cream and the like. A further object is to provide means for varying the appearance of the substance after it is formed. A particular object of the invention is to provide such a device as is very effective and is at the same time inexpensive; the invention consisting partly in the manner of making the device.

Of the accompanying drawing, Fig. 1 is an elevation of a device which embodies some of the features of my invention; Fig. 2 is a top view of the device; Fig. 3 is a bottom view of one modification of the device; Fig. 4 is a sectional fractional view, materially enlarged, along the line 4—4 of Fig. 2; Fig. 5 is a similar view along the line 5—5 of Fig. 1; Fig. 6 is an enlarged sectional view along the line 6—6 of Fig. 1, and Fig. 7 is a similar view showing a modification; Fig. 8 is a bottom sectional view of a modified form of the device; and Fig. 9 is a bottom view of the modification.

The device comprises a cylinder 10, in which is mounted a piston 11. The piston is operated in the cylinder by means of a rod 12 to which the piston is fastened in any suitable manner. The rod extends out of the upper end of the cylinder through a closure disk 13, and the rod is operated by means of a button 14 fixed to the outer end thereof. In the lower end of the cylinder is mounted a perforated disk 15, and a flange 16 extends from this disk downwardly a distance substantially equal to the thickness of the cookies that are to be formed.

In operation the disk 15 is removed and the cylinder is filled with the batter which is to be operated on; the batter is then forced out through the openings 17 by means of the piston while the flange 16 is resting on the table. When a sufficient amount of batter has been forced out, the device is quickly raised leaving the formed batter on the table.

In order to vary the thickness of the cookie that is to be formed I provide the disk 15 with an annular flange 18, so that when this flange extends upwardly, as in Fig. 6 the face of the disk will be materially below the lower end of the cylinder; but when the flange 18 projects downwardly from the disk, that is when the disk is inverted, as in Fig. 7, the face of the disk, and the openings 17, will be materially above the lower end of the cylinder. In this way the thickness of the batter formed according to the arrangement of Fig. 7

will be much greater than when formed according to the arrangement of Fig. 6.

In order that the disk may be inverted I provide the flange 16 independent of the disk and clamped to the cylinder. In this case I clamp the flange and the disk to the cylinder end, by means of a bayonet clamping means 19, the disk being clamped between the cylinder end and the flange 16 by means of an annular flange 20, projecting outwardly from the flange 18. In this manner the disk may be conveniently removed from the cylinder in order to invert it or to fill the cylinder with batter. However, the batter may be inserted in the other end of the cylinder by removing the disk 13 and the piston, if desired.

The disk 13 may also be clamped onto the cylinder end by means of ordinary bayonet clamping means, if desired, and fixed to this disk, or to the cylinder I provide wings 21. By the use of these wings the device can be held with one hand as it is being operated, the fingers passing down under the wings and the thumb pressing on the button 14. In this way the operator has the use of his other hand for other purposes. Fig. 4 shows the method of clamping the disk 13 onto the cylinder 10 by means of the clamping means 22.

In forming the cylinder 10 it is desirable to have the inner bore circular so as to fit the piston and prevent the batter from passing above the piston. To accomplish this and to form an inexpensive cylinder I provide the flanges 23 on the adjacent edges of the cylinder sheet, after the sheet has been rolled to form a cylinder. These flanges run from one end to the other of the cylinder, and the cylinder edges are held together by means of the strip 24 having flanges 25 passing between the flanges 23 and the body of the cylinder.

My device may be used for dispensing various substances, and also for varying the appearance of the substances when formed. The thickness of the batter may be varied in the manner set forth, or by varying the length of the flange 16; and the appearance otherwise may be varied by varying the openings 17, or by varying the amount of batter that is forced out of the cylinder.

The device may be used for dispensing whipped cream or other substances by inserting in place of the disk 15 a member 26, having at its lower end an opening 27. By this means the cream can be forced out through the opening 27 and spread around in any desired shape. By varying the shape of the opening 27 the appearance of the cream may be varied. To expedite varying the opening in an inexpensive manner, I provide the member 26 with an enlarged opening 28 in which

is positioned an outlet member 29 in which is formed the outlet opening 27. In this way a large number of different openings for the outlet may be provided at a trifling expense, and these 5 may be changed by merely removing the member 26 from the cylinder end. This member also may be fixed to the cylinder by means of the bayonet clamping means used for clamping the flange to the cylinder end.

10 I claim as my invention:

A dispensing device comprising a cylinder, a piston slidably mounted in the cylinder, a per-

forated disk removably mounted in the lower end of the cylinder, said disk having an annular flange extending angularly therefrom, the outer diameter of the flange being less than the diameter of the bore of the cylinder, and a second annular 5 flange extending outwardly from the outer edge of the former flange, and means for detachably clamping the second flange onto the end of the cylinder with the disk surface above or below the second flange as desired.

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