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DISPENSER

Filed Sept. 21, 1925

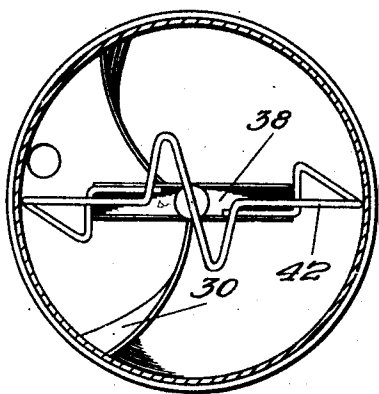


FIG. 2

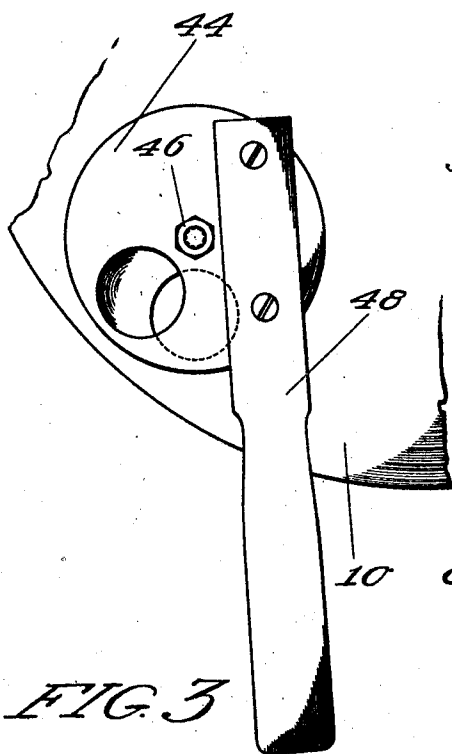


FIG. 3

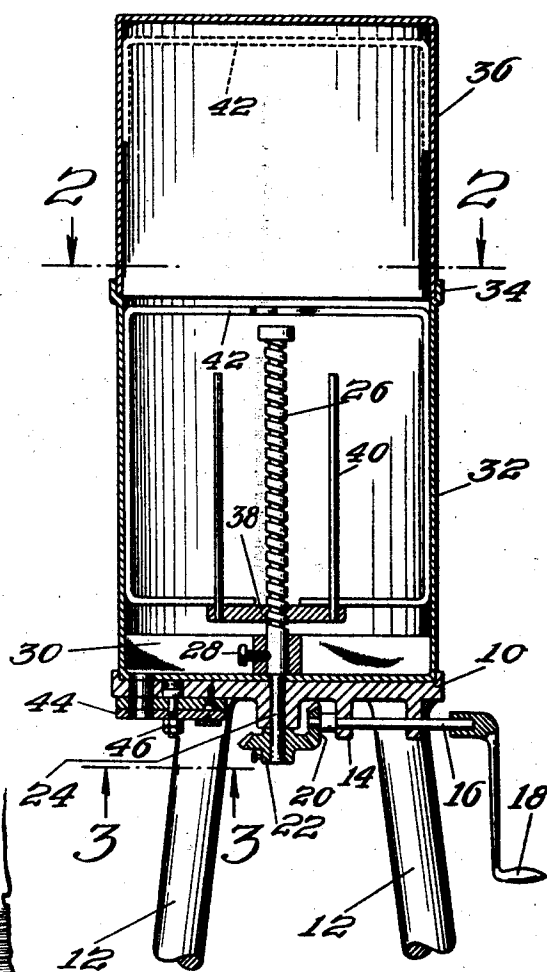


FIG. 1

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DISPENSER.

Application filed September 21, 1925. Serial No. 57,801.

This invention relates to improvements in dispensers, and has for one of its principal objects the provision of an improved device by means of which peanut butter, jellies, jams, honey, cottage cheese, mince meat, mayonnaise, malt, or any other product sold to the dealer in bulk may be kept sanitary and dispensed to the consumer in desired quantities.

One of the further important objects of this invention is to provide, in a dispenser or the like for foods or similar articles, of more or less plastic consistency, means for maintaining the product effectively stirred and of uniform body before it is dispensed.

Still another important object of this invention is to provide, in a dispenser or the like, means for retaining and supporting the original package of the goods in closed position while at the same time affording means for completely mounting the same during dispensing operations.

Another and still further important object of the invention is to provide, in a dispenser, means for scraping the walls of the dispenser and also of the original container for the goods, so as to insure a complete and continuous steady removal of same, thereby eliminating waste and spoilage.

Other and further important objects of the invention will be apparent from the disclosures in the accompanying drawings and following specification.

The invention, in a preferred form, is illustrated in the drawings and hereinafter more fully described.

In the drawings:

Figure 1 is a vertical sectional view of the improved dispenser of this invention, illustrating one of the operations in dotted lines.

Figure 2 is a sectional view, taken on the line 2—2 of Figure 1, looking in the direction indicated by the arrows.

Figure 3 is a detail view looking upwardly from the plane of the line 3—3 of Figure 1.

As shown in the drawings:

The reference numeral 10 indicates generally the base of the improved dispenser of this invention, comprising preferably a circular metal plate or the like, of suitable thickness, and positioned upon supporting legs or similar elements 12.

Depending lugs 14, which may or may not be integral with the base 10, are provided thereon, and mounted in suitable bearings

therein is a crankshaft 16 having at its outer end an operating handle 18, and fitted to its inner end is a bevel gear 20. This bevel gear 20 meshes with a suitable co-operating bevel gear 22, which in turn is positioned at the lower end of a vertical operating shaft 24 which extends upwardly through a suitable bearing in the base 10 and has its upper end screw threaded as indicated at 26.

Mounted on the shaft 24—26 and fixed so as to revolve therewith by means of a set screw 28, is an element comprising a number of curved blades 30, as best shown in Figures 1 and 2. These blades are mounted upon the bottom of a tank or container 32, which is positioned upon the base 10 which has its upper edge slightly flared, as indicated at 34, to receive the downturned open end of an original package of peanut butter or the like 36.

Mounted upon the screw threaded portion 26 of the vertical shaft is a cross arm or the like 38 having affixed therein upwardly extending pins 40 and also having attached thereto a scraping element 42, which is in the nature of a rod or wire of resilient material, and bent into the shape shown in Figure 2 so as to provide at all times a resilient scraping action against the sides of the containers 32 and 36.

Aligned openings are formed in the bottom of the tank 32 and in the base 10 and adapted to co-operate with these openings is a closure element 44 in the form of a pair of disks one of which is rotatably mounted on the base 10 by means of a screw 46 and provided with an operating handle 48. In order to effectively guard against leakage a ground joint is provided between the co-operating faces of the disks.

In operation, the lid having been removed from the original package or container 36, it is placed in downward open position upon the tank 32, as shown in Figure 1, whereupon a portion of its contents will immediately drop to the bottom of the tank 10. Upon opening of the valve 44 and operation of the handle 18 the paddle blades 30 will act to push the material out through the aligned openings and at the same time the screw threaded portion 26 of the vertical shaft will act to force the member 38 with its attached prongs 40 and its resilient scraping member 42 upwardly into the container 36 until the scraping member 42 will assume the position shown in the dotted lines in

Figure 1, which is almost at the limit of its movement. When the scraping member has reached the uppermost limit of its movement it can be readily lowered by reversing the action of the handle 18, the discharge valve, of course, being closed. This operation can be repeated as many times as is desirable during the process of finally emptying the combined receptacles.

The contents of the original package will be transferred or emptied into the dispenser in a clean and convenient way. The scraping element is so shaped that sufficient friction occurs with the material in the dispenser as to prevent the arm 38 from revolving, thereby causing the threads on the shaft 26 to move the arm and its attached elements 40 and 42 upwardly through the material until the arm 38 contacts with the boss on the top of the screw, thereby forcing the arm and its attachments to revolve, and consequently scraping the sides and bottom of the inverted container 36 free and clear of all contents. When this is accomplished a reverse movement of the handle 18 causes the arm 38 to move downwardly to its lower limit, when it again agitates the contents and the member 42 scrapes the sides of the tank 32.

It will be evident that herein is provided a dispenser for peanut butter and similar articles of food or the like, which will positively and efficiently discharge such material from a containing receptacle and without any danger of contamination by exposure to open air or insects, and with a positive elimination of waste. The action of the rods or prongs 40 assists in stirring the material so as to insure a uniform consistency which is especially desired in the case of materials which have a tendency to separate into layers of various thicknesses.

I am aware that many changes may be made and numerous details of construc-

tion varied throughout a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon otherwise than as necessitated by the prior art.

I claim as my invention:

1. A dispenser, including in combination, a dispensing tank having a discharge opening therein, closure means for the opening, and manually operated means for forcing material through the opening, said means comprising a series of paddle blades rotatably positioned in the dispenser, and further means simultaneously operated with the discharge means for maintaining a uniform consistency in the material to be dispensed and for scraping the sides of the container, said means including a vertical screw, a crossbar on the screw, and mixing rods on the crossbar, the rotation of the screw forcing the said prongs upwardly through the material to be dispensed.

2. A dispenser, including in combination, a dispensing tank having a discharge opening therein, closure means for the opening, and manually operated means for forcing material through the opening, said means comprising a series of paddle blades rotatably positioned in the dispenser, and further means simultaneously operated with the discharge means for maintaining a uniform consistency in the material to be dispensed and for scraping the sides of the container, said means including a vertical screw, a crossbar on the screw, and mixing rods on the crossbar, the rotation of the screw forcing the said prongs upwardly through the material to be dispensed, and scraping means on the crossbar, said scraping means including a rod of resilient material also mounted to be forced upwardly upon rotation of the said screw.

In testimony whereof I affix my signature.
CHARLES T. NEWTON.