

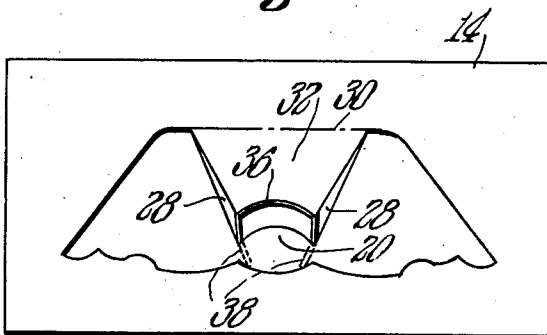
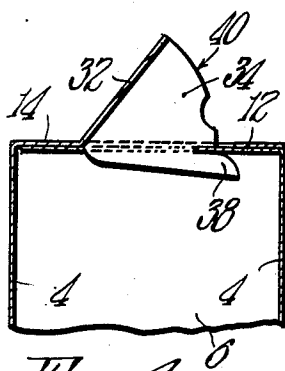
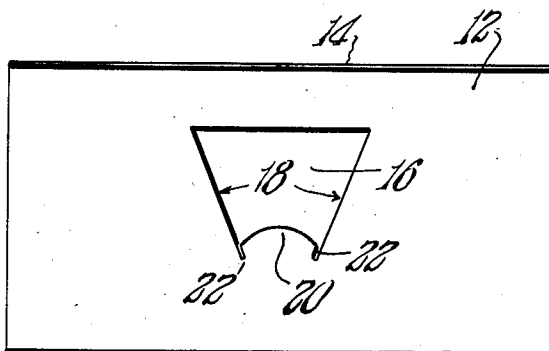
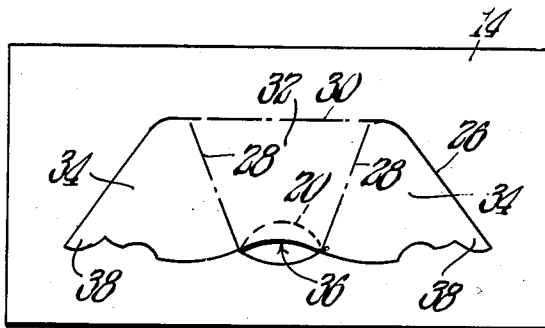
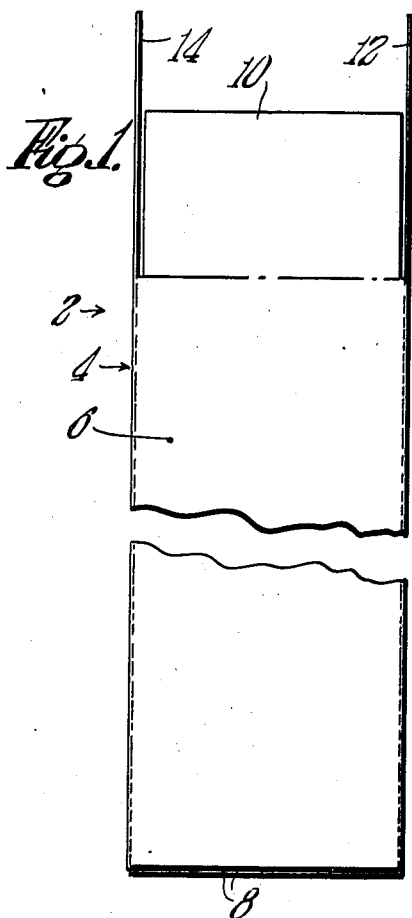
Sept. 28, 1943.

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2,330,464

DISPENSING RECEPTACLE

Filed Oct. 10, 1942



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UNITED STATES PATENT OFFICE

2,330,464

DISPENSING RECEPTACLE

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Application October 10, 1942, Serial No. 461,568

1 Claim. (Cl. 229—17)

This invention relates to improvements in dispensing receptacles or containers such as are adapted for dispensing granulated and other materials.

The principal objects of the invention are directed to the provision of a dispensing device which is provided with a novel combination and arrangement of parts including a dispensing outlet and spout therefor that is adapted for movement between dispensing and non-dispensing or open and closed positions.

The novel features of the invention are adapted for broad application in connection with containers of various forms for various materials and it is not to be limited to the particular embodiment of the invention hereinafter to be more fully set forth.

In the drawing:

Fig. 1 is an end elevational view of a dispensing device embodying the novel features of the invention;

Fig. 2 is a plan view of the dispensing device shown in Fig. 1 with the end flaps thereof in closed position;

Fig. 3 is a plan view similar to Fig. 2 with one end flap in elevated position;

Fig. 4 is a transverse sectional elevational view through the upper part of the device to explain certain details of construction; and

Fig. 5 is a plan view of the device with the dispensing spout thereof in elevated or dispensing position.

Referring now to the invention more in detail, the invention will be fully described.

A receptacle 2 is shown which has side and end walls 4 and 6 and bottom members 8 the latter of which are in overlapping and secured together relation to close the lower end of the receptacle. The receptacle may be made from various materials and in various forms and sizes as may be desired.

At the upper end of the receptacle there are tabs such as 10 and inner and outer flaps 12 and 14. The tabs and the flaps are arranged for folding inwardly into overlapping relation to close the upper end of the receptacle and they may be secured in their overlapping relation by any suitable means such as by an adhesive or the like.

The inner flap is provided with a cut-out or outlet 16 as shown clearly in Fig. 3. As will be seen, the said outlet has diverging sides 18 with an inwardly projecting part 20 at one end with slots or notches 22 at opposite sides thereof.

The outer flap has a line of severance indi-

cated at 26 and bending lines indicated by 28 and 30 to provide a spout forming portion or member as shown which is hinged on the line 30 for swinging movements relative to the member 14.

The spout member includes an upper portion 32 and side walls 34, the latter being bendable relative to the former on the lines 28 so as to provide a channel shaped gradually narrowing spout.

The package will be sold with the flaps 12, 14 and tabs 10 secured together. One may elevate the spout forming member or swing it upwardly on a line 30 by engaging the concave forward end 34 of the spout. With this spout forming member elevated to an angular position the side walls 34 of the spout are bent downwardly and passed through the opening 16 in the flap 12 so that prongs 38 at the forward ends of the side walls underlie the said flap 12.

The side walls 34 of the spout fit within the notches or slots 22 associated with the opening 16 and the projection 20 of flap 12 in combination with the notches or slots hold the side walls 34 against the marginal converging edges of the opening 16.

In other words, the projection 20 and slots 22 guide the side walls 34 of the spout or hold them in engagement with the marginal edges of the opening at all times so that material does not leak past the spout.

The spout is swingable between the open dispensing position shown in Fig. 4 and a closed position where the upper wall 32 thereof is in parallelism with the main body of the flap 14 and overlies and closes the opening 16.

The prongs 38 extend forwardly and beneath the flap 12 to act as stops and limit upward movements of the spout as indicated in Fig. 4 and therefore the spout is readily swingable between its certain upper pouring position shown in Fig. 4 and its lower closed position where the opening 16 is covered by the said spout.

It will be noted that the forward edges 40 of the side walls 34 of the spout are curved on a radius having a center substantially on the hinged connection between the spout and flap so that the space between the side walls and flap 12 are closed at all times or, in fact, in any position of the spout.

It will also be noted that the forward or outer concaved end of the top portion 32 of the spout provides an engageable means for readily elevating the spout from its non-pouring position as well as to facilitate elevating the portion of the

outer flap which is to be formed into the spout. By reason of the curvature at the forward end of the spout, when the device is inverted with the spout in pouring position the stream of material delivered by the spout is concentrated centrally and laterally of the pouring end of said spout. It will be readily appreciated that the projection 20 and slots 22 may be varied to suit requirements and that the proportions and arrangement of the spout may be varied whilst maintaining the novel features, thus making it possible to easily and readily elevate the spout forming member into spout forming position while at the same time facilitating the swinging of the spout freely between its closed and open positions.

As special features of the invention, the side walls of the spout are at all times held in engagement with the marginal edges of the opening 16 to prevent leakage of material from the receptacle around the spout and confining its delivery when desired to the spout itself.

The invention may be embodied in other specific forms without departing from the essential characteristics thereof. Hence, the present embodiments are therefore to be considered in all respects merely as being illustrative and not as being restrictive, the scope of the invention being indicated by the appended claim rather than by the foregoing description, and all modifications and variations as fall within the meaning and purview and range of equivalency of the appended claim are therefore intended to be embraced therein.

What it is desired to claim and secure by Letters Patent of the United States is:

A dispensing receptacle comprising in combi-

nation, side, end and bottom wall members forming a receptacle and upper outer and inner secured together end members closing said receptacle, the inner member having a trapezoidal shaped opening with a rear wide end adjacent the rear side of the receptacle and a front narrow end curving inwardly and slots extending forwardly at opposite sides thereof parallel with the sides of the opening, the outer member having a spout forming member consisting of an upper wall and side walls, the upper wall corresponding in shape to said opening and hingedly connected at a rear wide end to the outer member, the side walls each having side edges extending in diverging relation from the hinged connection with inner side edges bendably connected to opposite side edges of the upper wall whereby said walls are bendable into overlapping relation relative to the upper wall for inserting downwardly through said opening, the front edges of the side walls being curved on radii centered on the hinged connections and provided with notches intermediate their ends providing clearance with the front end of the opening for swinging of the side walls in the opening from overlapped relation into engagement with the sides of the opening and in spout forming position with the front edges of the side walls receivable in said slots to hold the said walls against the sides of the opening, all adapted and arranged whereby the spout may swing between a pouring position and non-pouring position with the front edges of said side walls traversing said slots, and extensions on the front edges of the side walls below and engaging the inner member to limit movements of the spout in pouring position.

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