Aug. 24, 1954 F. B. ALLSTON ET AL 2,687,245

NONSPILL SCOOP

Filed Dec. 7, 1951

Fig. 1

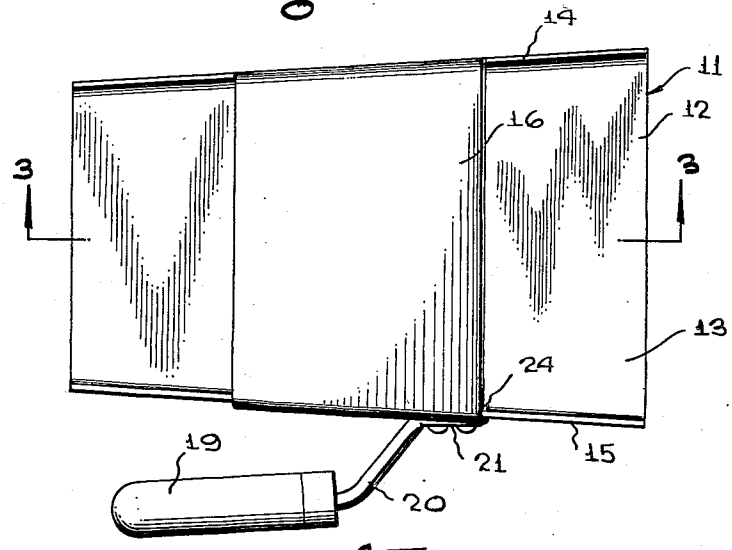


Fig. 2

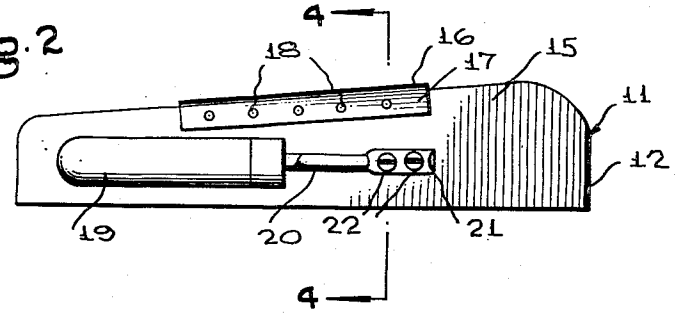


Fig. 3

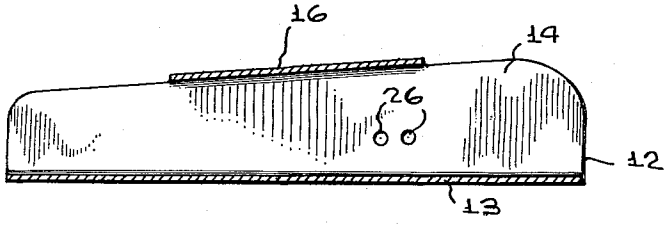
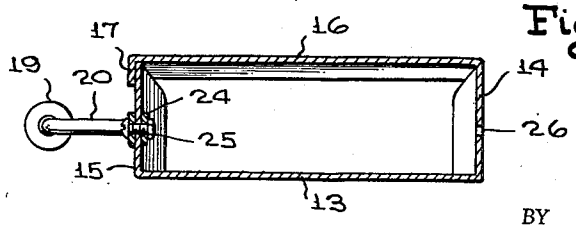


Fig. 4



INVENTORS
FRANCIS B. ALLSTON
& ALICE C. ALLSTON

BY
McMorrow, Berman + Davidson
ATTORNEYS

Patented Aug. 24, 1954

2,687,245

UNITED STATES PATENT OFFICE

2,687,245

NONSPILL SCOOP

Francis B. Allston and Alice C. Allston,
Beaufort, S. C.

Application December 7, 1951, Serial No. 260,354

2 Claims. (Cl. 226—60)

1

This invention relates to scoops, and more particularly a scoop for filling bags or sacks with popcorn, candy, and similar material.

The main object of the invention is to provide a novel and improved scoop device for filling bags with popcorn, candy and similar material, the improved scoop device being simple in construction, being easy to manipulate, and effectively preventing spilling of the material during the filling of a receptacle by the use of the scoop device.

A further object of the invention is to provide an improved filling scoop for filling bags, boxes, and other receptacles with popcorn, candy and similar material, the improved receptacle being inexpensive to fabricate, being rugged in construction, being well balanced, and being arranged to fill a bag or box with popcorn and similar material in a single operation.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a top view of an improved scoop device constructed in accordance with the present invention.

Figure 2 is a side elevational view of the scoop device illustrated in Figure 1.

Figure 3 is a longitudinal vertical cross sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a transverse vertical cross sectional view taken on the line 4—4 of Figure 2.

Referring to the drawings, the improved scoop device is designated generally at 11 and comprises a longitudinally tapering, channel-shaped main body 12 having the web portion, or bottom, 13, and the respective side flanges 14 and 15, the web 13 being trapezoidal in shape, as shown, whereby the flanges 14 and 15 converge toward the left, as viewed in Figure 1. Formed integrally with the flange 14 and extending from the intermediate portion of the edge thereof is the transversely extending shield plate 16, said shield plate being formed at its free margin with a depending flange 17 which extends over the top margin of the flange 15 and is secured to flange 15 by suitable fasteners, as for example, by a plurality of rivets 18.

As shown in Figures 2 and 3, the side flanges 14 and 15 taper in width, the top edges of said side flanges being inclined downwardly toward the left end of the channel-shaped body 12, as is clearly shown in Figures 2 and 3. The shield plate 16 is substantially flat and accordingly is inclined downwardly toward the left end of the body 12.

Designated at 19 is a handle which is formed

2

with a shank 20 having a securing lug 21 at its end. As shown in Figure 1, the main portion of the handle 19 is laterally offset with respect to the securing lug 21. Said securing lug 21 is detachably secured to one of the side flanges of body 12, as by bolts 22, 22 which extend through the fastening lug 21, the side flange of body 12 and through a washer plate 24 disposed adjacent the inside surface of the side flange, said bolts being provided with the fastening nuts 25 to clamp the fastening lug 21 securely to the side flange of the body member. Since the body member 12 is made of relatively thin material, the washer plate 24 serves as a stiffener and reinforcement for the side flange of the body member, whereby the handle fastening lug 21 may be rigidly secured to said side flange. The respective side flanges 14 and 15 are respectively formed with apertures 26, 26, whereby the handle 19 may be secured to either side flange 14 or 15, as desired by the user, and whereby the handle may be properly arranged for use by either right handed or left handed persons. As shown in Figure 1, the main portion of the handle 19 is slightly inclined relative to the longitudinal axis of the scoop body 12 and said main handle portion is spaced laterally from the scoop body.

In using the device, the operator merely fills the main body 12 with the material to be packaged, such as popcorn or the like, and then inserts the smaller end of the scoop body into the bag or box to be filled, allowing the bag or box to cover at least the left marginal portion of the shield plate 16, as viewed in Figure 1, whereupon, the scoop is tilted, along with the package or receptacle to an upright position, allowing the material to gravitate into the receptacle, spillage of the material being prevented by the shield plate 16. It will be readily apparent, that by fabricating the scoop device so as to be substantially equal in volume to the receptacle to be filled, the receptacles may be filled in a single scoop operation and with no spillage.

The scoop body 12, and the shield plate 16 integral therewith, may be fabricated of any suitable sheet metal, such as sheet aluminum or the like, or alternatively may be made up of suitable sturdy non-metallic sheet material, such as plastic material.

While a specific embodiment of an improved scoop device for filling bags, boxes and similar receptacles, has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore,

it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A scoop of the character described comprising a longitudinally tapering, channel-shaped main body, the side walls of said body tapering in height toward the smaller end of the body, whereby said body has its forward end relatively smaller in cross sectional area than its rear end, a shield plate of substantial longitudinal length secured to the intermediate portions of the top margins of the side walls of said body and covering the intermediate portion of said body, and a handle secured to one of the side walls of the body and extending alongside the body in laterally spaced relation thereto toward its smaller end.

2. A scoop of the character described comprising a longitudinally tapering, channel-shaped main body, the side walls of said body tapering in height toward the smaller end of the body, whereby said body has its forward end relatively smaller in cross sectional area than its rear end, a shield plate of substantial longitudinal length secured to the intermediate portions of the top margins of the side walls of said body and covering the intermediate portion of said body, and an elongated handle detachably secured to one of the side walls of the body and extending alongside said body in laterally spaced relation thereto toward its smaller end, said handle being arranged to be selectively secured to either side wall of the body.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
D. 147,459	Kloth	Sept. 9, 1947
112,727	Lum	Mar. 14, 1871
133,562	Chaffin	Dec. 3, 1872
238,942	Macardle	Mar. 15, 1881
273,253	Byrkett	Mar. 6, 1883
360,453	Levy et al.	Apr. 5, 1887
438,948	Robinson	Oct. 21, 1890
1,053,438	Resch	Feb. 18, 1913
1,167,782	Richards	Jan. 11, 1916
1,234,057	McIntyre	July 17, 1917
2,182,464	Blackstone	Dec. 5, 1939
2,317,292	Nash	Apr. 20, 1943