Feb. 20, 1934. W. J. GEIMER 1,947,934

CONTAINER

Filed Dec. 9, 1931

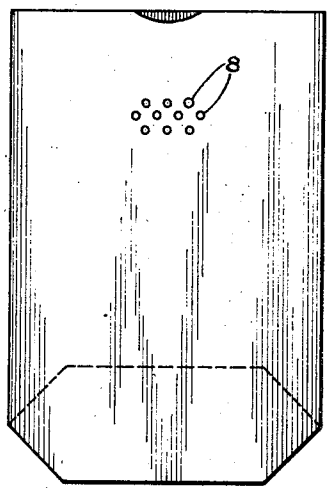


FIG. 4

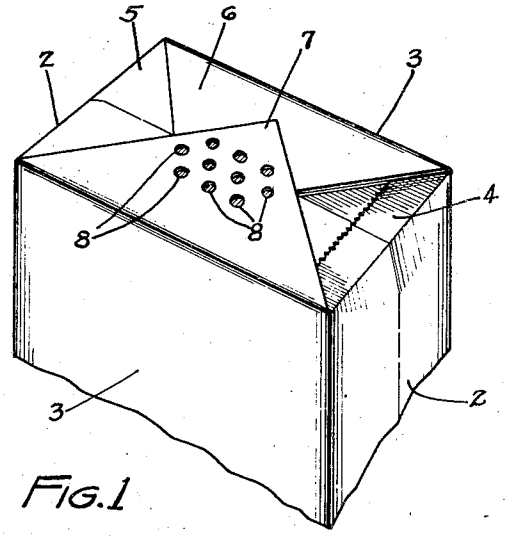


FIG. 1

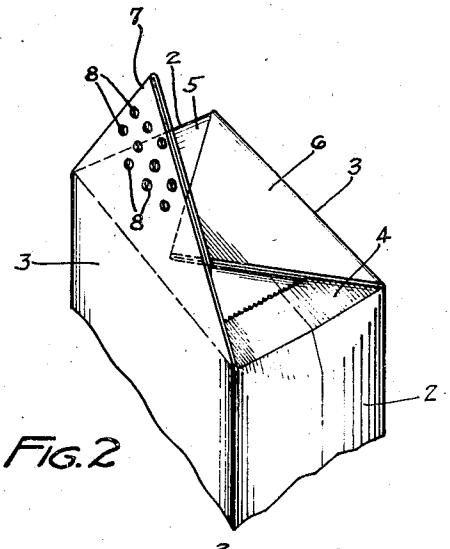


FIG. 2

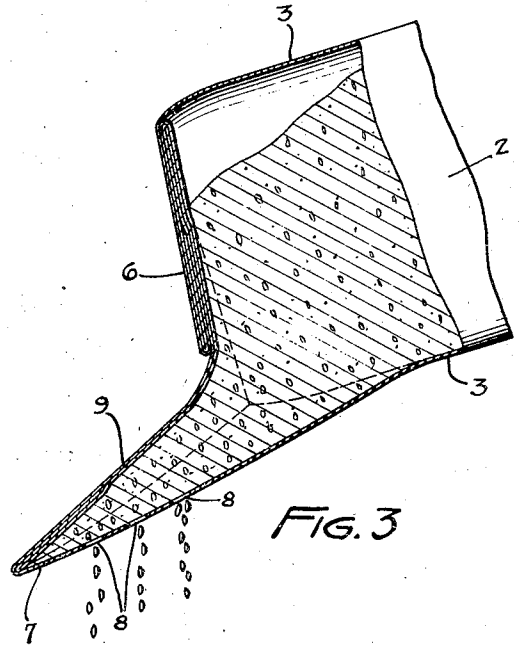


FIG. 3

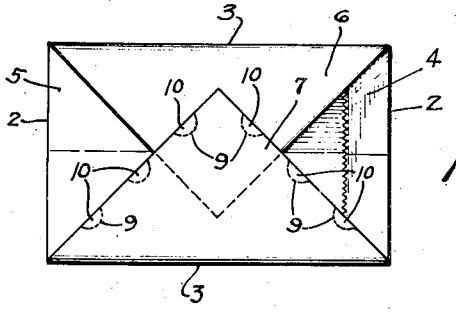


FIG. 5

Inventor
WILLIAM J. GEIMER
By Paul & Paul or Moore
ATTORNEYS

Patented Feb. 20, 1934 1,947,934

UNITED STATES PATENT OFFICE

1,947,934

CONTAINER

William J. Geimer, Minneapolis, Minn., assignor to Bemis Bro. Bag Co., Minneapolis, Minn., a corporation of Missouri

Application December 9, 1931. Serial No. 579,912

1 Claim. (Cl. 229—62)

This invention relates to new and useful improvements in containers, generally, and more particularly to a container or bag of the general character disclosed in Patent No. 1,833,675.

An object of the invention is to provide a container made of flexible foldable material having closure flaps adapted to be folded in overlapping relation and secured together to seal the top of the container, one of said flaps having a plurality of perforations in a wall thereof whereby, when said flap is unfolded from the remaining flaps, the material in the container may be filtered through the perforations in said flap.

A further object is to provide an improved container or bag of the character described having its top walls adapted to be folded to provide a plurality of flaps which may be folded in overlapping relation and secured together to seal the top of the bag, and the uppermost flap being adapted to be unfolded from the remaining flaps and having a plurality of perforations in a wall thereof, through which the material in the container may be filtered or discharged, when said flap is unfolded, and whereby the container may be used as a means for uniformly spreading the material over the area to be treated.

A further object is to provide an inexpensive and simple container for dispensing in small quantities, such materials as grass seeds, commercial fertilizers, and other small materials which are usually spread over the surface to be treated, having means incorporated in the construction thereof whereby the material in the container may be filtered therefrom through a series of small apertures provided in a wall of one of the flaps providing the closure for the container, and whereby the container itself may be used as a means for uniformly spreading the material over the surface to be covered.

The primary object of the invention, therefore, is to provide a container for dispensing such materials as grass seed, various other small seeds, and commercial fertilizers, having means incorporated in the construction thereof whereby the material may be filtered from the container in such a fashion as to simplify the operation of uniformly spreading the material over the surface to be treated, and whereby the material may be applied to the surface directly from the container.

Other objects of the invention will appear from the following description and accompanying drawing and will be pointed out in the annexed claim.

In the accompanying drawing, there has been disclosed a structure designed to carry out the various objects of the invention, but it is to be understood that the invention is not confined to the exact features shown as various changes may be made within the scope of the claim which follows.

In the drawing:

Figure 1 is a view showing the folded top of a bag with the invention applied thereto;

Figure 2 is a view similar to Figure 1, showing the uppermost flap partially unfolded.

Figure 3 is a view showing the uppermost flap completely unfolded, and also illustrating the material being filtered from the container through the perforations provided in a wall of said flap;

Figure 4 is a view showing an empty bag with one of its walls perforated; and

Figure 5 is a view showing a modified construction.

In the selected embodiment of the invention herein disclosed, there is illustrated a container or bag comprising a body portion composed of end walls 2—2 and side walls 3—3. The upper portions of the bag walls are adapted to be folded to provide a plurality of flaps 4, 5, 6, and 7, which subsequently are folded, one over the other, in overlapping relation and suitably secured together to seal the bag.

An important feature of this invention resides in the means provided whereby the bag or container may be used as a means for uniformly spreading the material contained therein over a surface to be treated. Lawn seeds, and numerous other small seeds, and also various commercial fertilizers, are now commonly dispensed in small containers. It is rather difficult for an inexperienced person to uniformly spread or distribute lawn seed by scattering it over the area to be seeded by hand, which appears to be the common method of planting grass seed by the average person. To overcome this difficulty and to facilitate the operation of spreading the seed over the ground, and also whereby it may be substantially uniformly spread, I have found that by providing a plurality of perforations or apertures 8 in a wall of one of the flaps of the container, that when said perforated flap is unfolded, the material may readily be filtered from the container and uniformly spread over the surface to be treated, as shown in Figure 3.

In a bag or container of the class illustrated in the drawing, the flaps are usually composed of a plurality of plies of material adapted to be

separated to provide a space connecting with the interior of the bag, as best shown in Figure 3. The perforations 8 are preferably provided in the outer wall of the uppermost flap 7, so that when said flap is unfolded from the remaining folded flaps, and the bag is tilted to an inclined position, the material will enter the space in said unfolded flap, whereby it may be discharged through the perforations 8, as shown in Figure 3. It is to be understood that the plurality of plies of material constituting the inner wall 9 of the flap 7 are suitably secured together so that when the flap is unfolded, the plies thereof will not separate.

When the tops of the bag walls are folded into bag-sealing relation with the flaps 6 and 7 disposed in overlapping relation, the outer and inner walls of the top flap 7 will be disposed in engaging relation so that the material in the bag or container cannot leak therefrom, when said flaps are thus folded.

It will thus be noted that by the provision of the perforations 8 in the top flap 7, when said flap is unfolded to the position shown in Figure 3, the material may readily and conveniently be filtered from the container through said apertures in a plurality of small streams, whereby the material may readily be uniformly spread over the surface to be treated. This novel container therefore, readily lends itself for use in the dispensing of lawn seeds and other small seeds, as well as various kinds of commercial fertilizers.

Figure 5 illustrates a modified construction wherein a plurality of score marks 9 are shown provided in the edges of the flap 7 in lieu of the perforations 8 shown in Figures 1 to 4. The portions 10 defined by the score marks 9 may readily be torn or severed from the flap to provide suitable apertures or openings through which the material may be discharged from the container.

As above stated, the present invention has been found very useful in connection with small bags or containers of the character herein disclosed, as it provides means whereby the contents of the bags may readily and conveniently be filtered therefrom by slightly shaking the bag so as to uniformly spread the material over the surface to be treated. Also, by providing the perforations 8 in the outer wall of the unfoldable flap 7, when the flap is folded to the position shown in Figure 1, the perforations will be sealed or closed so that the material cannot discharge or leak from the container.

I claim as my invention:

A bag made of flexible, foldable material comprising a plurality of walls cooperating to provide the body of the bag and having portions forming the walls of the bag mouth, said wall portions being folded into a plurality of closure flaps which flaps are folded in overlapping relation and secured together to seal the top of the bag, at least one of said flaps being composed of a plurality of plies of material adapted to be separated to provide a space communicating with the interior of the bag, and said last-mentioned flap being substantially triangular in configuration and having a plurality of spaced score marks in its edges whereby portions of said flap may readily be torn or detached therefrom to provide suitable apertures or openings through which the contents of the bag may be discharged or sifted, when the flap is unsealed and without unsealing the remaining flaps.

WILLIAM J. GEIMER.