

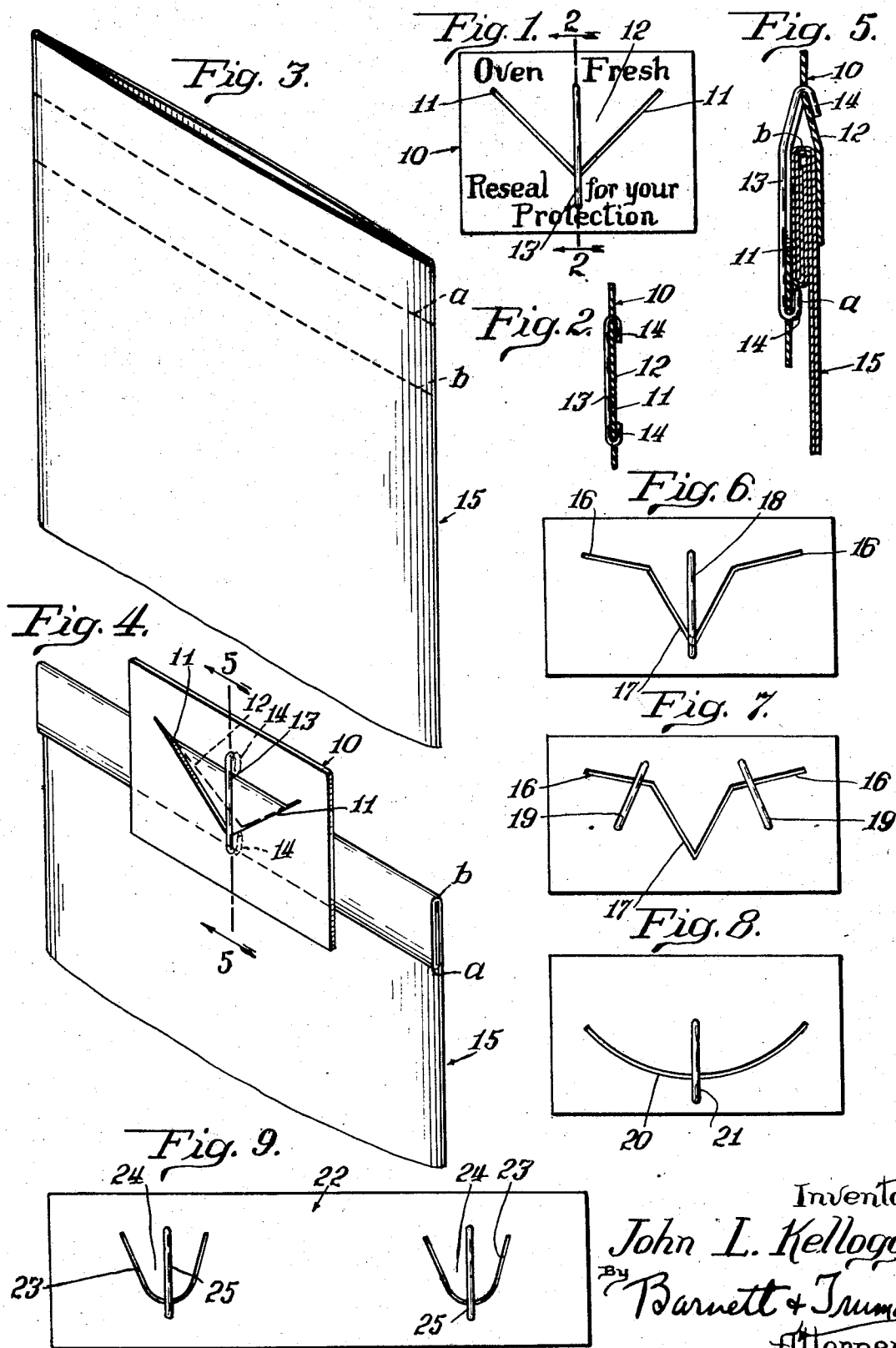
Nov. 5, 1940.

J. L. KELLOGG

2,220,409

BAG CLOSURE DEVICE

Filed April 10, 1939



Inventor
John L. Kellogg
By Barnett & Truman
Attorneys

UNITED STATES PATENT OFFICE

2,220,409

BAG CLOSURE DEVICE

John L. Kellogg, Chicago, Ill.

Application April 10, 1939, Serial No. 267,157

8 Claims. (Cl. 24-255)

This invention relates to a closure device for bags or other receptacles, intended to contain a cereal product, confection or other edible material which is likely to deteriorate when exposed to air; and the principal object of the invention is to provide a simple and inexpensive device whereby the folded open edges of the bag or other flexible container may, after being folded over, preferably with a double fold, be kept closed against the ingress of air to the bag, after part of the contents of the bag, for example, has been used, so as to keep the rest in a fresh, unspilled condition.

Another object is to make the closure device or clip, as it might be called, in part of cardboard or like flexible material, so that the device may bear a printed notice or advertisement, and in part of a metal staple, united with the cardboard portion so that the device has the necessary gripping elasticity on the edge of the bag in order to hold the folds together even after having been put in place and detached several times.

One or more of these closure devices may be used on each bag, depending upon the width of the folded edges of the bag; or a single device may be provided with two or more clips.

The invention is illustrated in certain preferred embodiments in the accompanying drawing wherein:

Fig. 1 is a view in elevation of the closure clip;
Fig. 2 is a cross-sectional view on line 2-2 of Fig. 1;

Fig. 3 is a fragmentary view of the bag;

Fig. 4 is a similar view showing the open edges of the bag folded over twice and held in closed position by the clip of Fig. 1;

Fig. 5 is a cross-sectional view (with the thicknesses of the material considerably exaggerated) on the line 5-5 of Fig. 4;

Figs. 6, 7 and 8 are views similar to Fig. 1 of modified forms of the clip; and

Fig. 9 shows a single closure device provided with two clip members.

Referring to the drawing, the closure device in the form shown in Figs. 1, 2, 4 and 5 consists of a sheet of stiff cardboard 10 formed with a V-shaped slit 11, providing a tab 12 and metal staple or wire 13 which extends across the apex of the V-shaped slit 11, and has its ends extending through and bent over against the body portion 10 of the device as indicated at 14, Fig. 2. The bag 15 may be of any suitable material, such as moisture proof paper, Cellophane or the like. After the bag is filled, its upper open edges are

folded over on the lines *a-b* (Fig. 3) to give the double fold shown in Fig. 4. The closure device is put into place on the folded portion of the bag so that the body portion 10 of the device lies on one side of the bag, and the tab 12 on the other side. The staple 13 gives the device the necessary flexibility, tenacity and durability.

The body portion of the device may bear any suitable printed legend as indicated in Fig. 1.

In the modification shown in Fig. 6, the ends 16-16 of the slit 17 are at a more obtuse angle to the median line of the V, on which the staple 18 is located, than the lower portions of the slit, so as to provide a tab which for some purposes will have a better hold on the edge of the bag 15 than the tab shown in the previous figures.

In Fig. 7 the slit has the same configuration as in Fig. 6, but two staples 19-19 are provided, extending across the end portions 16-16 of the slit.

In the form shown in Fig. 8, the slit 20 is curved instead of being V-shaped, and the staple is indicated at 21.

In the form of closure device shown in Fig. 9, the body of the device is made of a relatively wide sheet of cardboard 22 formed with two slits 23, 23, generally V-shaped but with the legs of the V slightly curved formed to tabs or clip portions 24, 24. These are preferably reinforced and their elasticity enhanced by wire staples 25, 25.

I claim:

1. A closure device for the folded open edges of a bag type receptacle comprising a sheet of flexible material formed with a slit to provide a tab adapted to engage the opposite side of the folded edge of the bag from that against which the body of the sheet lies, and a metal staple extending across said slit with its ends anchored to the body of the sheet.

2. A closure device for the folded open edges of a bag type receptacle comprising a sheet of cardboard formed with a slit to provide a tab adapted to engage the opposite side of the folded edge of the bag from that against which the body of the sheet lies, and a metal staple extending across said slit with its ends anchored to the body of the sheet.

3. A closure device for the folded open edges of a bag type receptacle comprising a sheet of flexible material formed with a substantially V-shaped slit to provide a tab adapted to engage the opposite side of the folded edge of the bag from that against which the body of the sheet lies, and a metal staple extending across said slit with its ends anchored to the body of the sheet.

4. A closure device for the folded open edges of a bag type receptacle comprising a sheet of flexible material formed with a substantially V-shaped slit to provide a tab adapted to engage the opposite side of the folded edge of the bag from that against which the body of the sheet lies, and a metal staple extending across the apex of said slit with its ends anchored to the body of the sheet.
5. A bag closure device comprising a sheet of flexible material formed with a slit to provide a tab and a flexible metal element attached to said sheet and extending across said slit which tends to force the tab when displaced into realignment with the rest of the sheet.
6. A bag closure device comprising a sheet of cardboard formed with a slit to provide a tab and a wire clip attached to said sheet and extending across said slit which tends to force the tab when displaced into realignment with the rest of the sheet.
7. A bag closure device comprising a sheet of cardboard formed with a V-shaped slit to provide a tab, and a wire staple extending across the apex of the tab with its ends anchored to the body of the sheet.
8. A bag closure device comprising a sheet of flexible, stiff cardboard formed, by slitting of the material, with two substantially V-shaped tabs whereby the device is adapted to engage the folded edge of a bag; and wire staples extending across the apexes of the V's with their ends anchored to the sheet.

JOHN L. KELLOGG.