

March 22, 1960

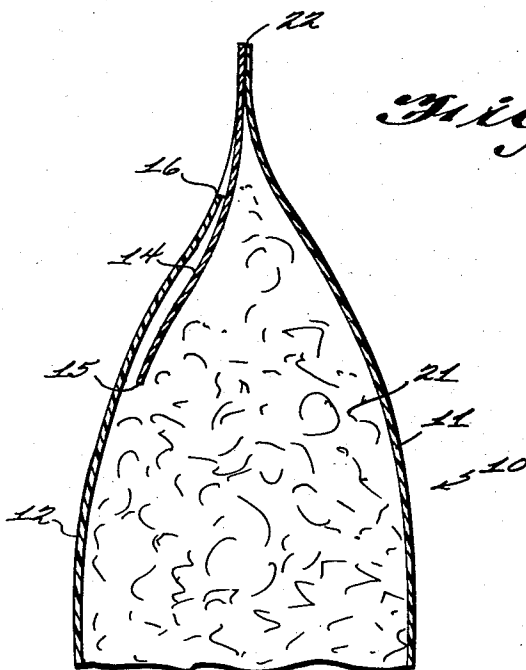
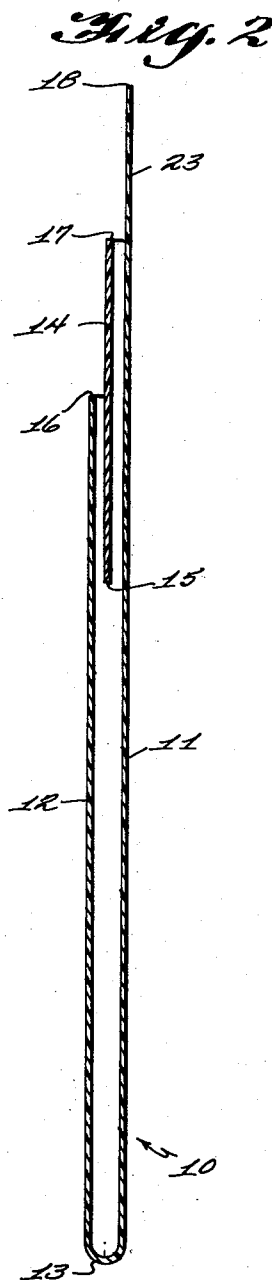
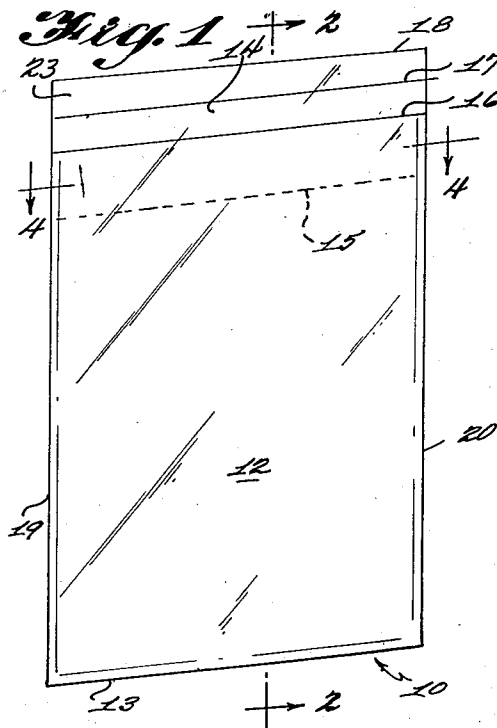
F. ABRAMS ET AL

2,929,180

METHOD OF FORMING A SALES PACKAGE

Filed Aug. 5, 1958

2 Sheets-Sheet 1



INVENTORS

FRED ABRAMS
JAY C. WALTERS

BY

Kimmel & Crowell

ATTORNEYS

March 22, 1960

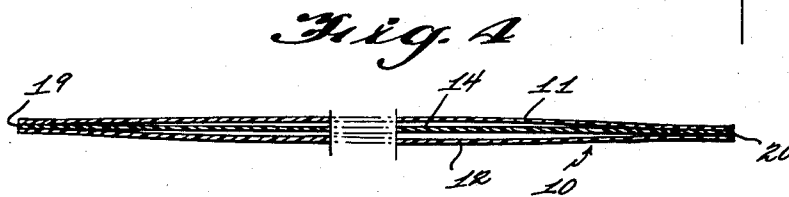
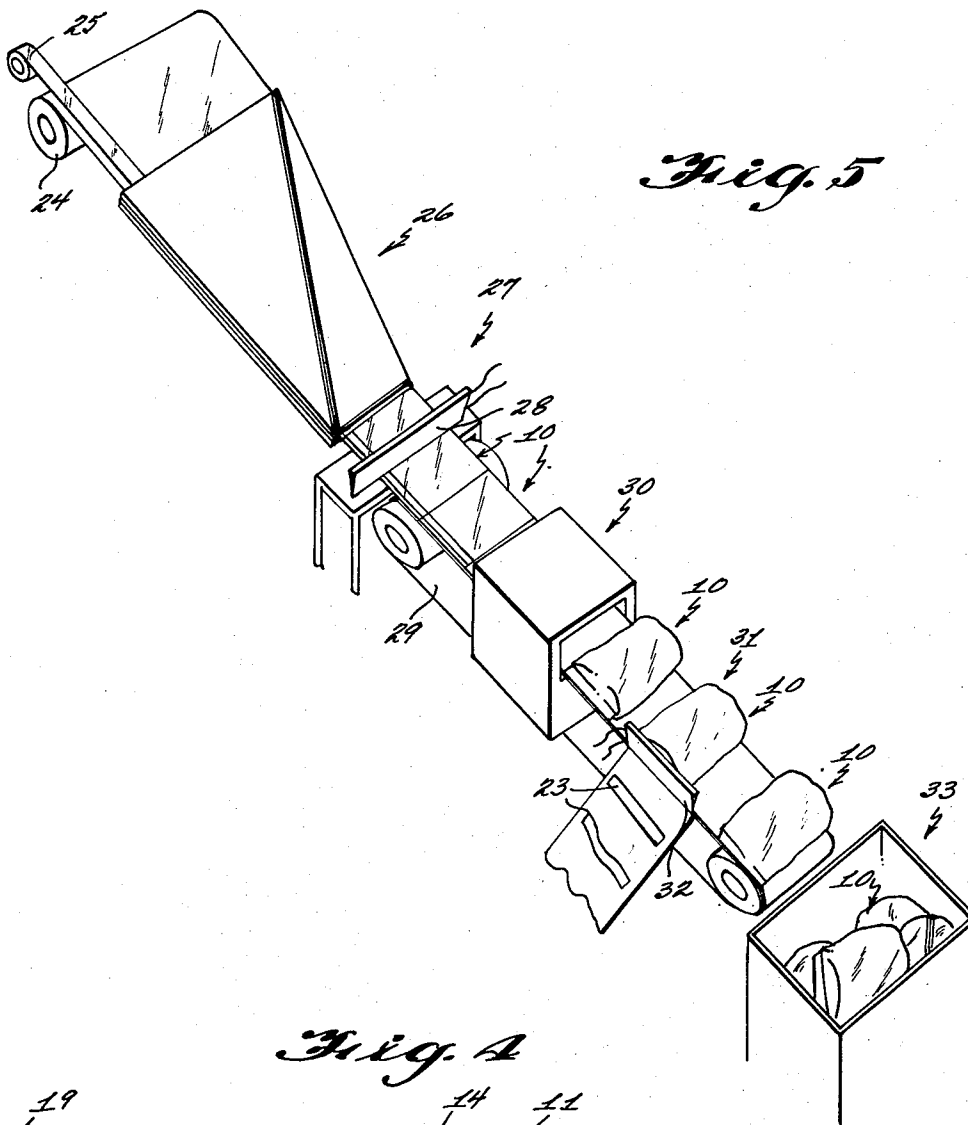
F. ABRAMS ET AL

2,929,180

METHOD OF FORMING A SALES PACKAGE

Filed Aug. 5, 1958

2 Sheets-Sheet 2



INVENTORS
FRED ABRAMS
JAY C. WALTERS

BY

Kimmel & Crowell
ATTORNEYS

1

2,929,180

METHOD OF FORMING A SALES PACKAGE

Fred Abrams and Jay C. Walters, New York, N.Y., assignors to Vizofilm Manufacturing Corporation, New York, N.Y., a corporation of New York

Application August 5, 1958, Serial No. 753,243

2 Claims. (Cl. 53—29)

The present invention relates to a sales package and method of forming same, and particularly to sales packages for fresh leafy vegetables.

The primary object of the invention is to provide a bag and method of forming same which can be filled and closed on automatic bag filling and closing equipment while leaving an access opening to permit inspection of the vegetables therein.

Another object of the invention is to provide a bag and method of forming same which can be formed on conventional bag forming equipment.

A further object of the invention is to provide a method of forming a bag which includes severing the sides of the bag while simultaneously heat sealing the sides together.

Other objects and advantages will become apparent in the following specification when considered in the light of the attached drawings, in which:

Figure 1 is a front elevation of a bag formed in accordance with the invention.

Figure 2 is a vertical cross-section taken along the line 2—2 of Figure 1, looking in the direction of the arrows.

Figure 3 is a view similar to Figure 2 of the bag after filling and closing.

Figure 4 is a horizontal section taken along the line 4—4 of Figure 1, looking in the direction of the arrows.

Figure 5 is a semi-diagrammatic illustration of the bag forming, filling, and closing steps in utilizing the invention.

Referring now to the drawings in detail wherein like reference characters indicate like parts throughout the several figures, the reference numeral 10 indicates generally a bag constructed in accordance with the invention.

The bag 10 includes an elongated rear panel 11, a somewhat shorter front panel 12 arranged in generally parallel relation to the rear panel 11 and integrally joined thereto at the bottom edge 13 of the bag 10. A transverse strip 14 is positioned between the rear panel 11 and front panel 12 extending from its lower edge 15 spaced below the upper edge 16 of the front panel 12 to its upper edge 17 spaced below the upper edge 18 of the rear panel 11.

The rear panel 11 and the front panel 12 are joined together along their adjacent side edges 19, 20 and the adjacent edges of the strip 14 are secured therebetween intermediate the edges 15, 17 of the strip 14.

Referring now to Figure 3, the bag 10 is illustrated filled with a leafy vegetable 21 and with the strip 14 sealed to the rear panel 11 at 22 closing the bag to secure the leafy vegetable 21 therein. As can be seen in Figure 3, the strip 14 is not sealed to the front panel 12 and access to the leafy vegetable 21 can be gained between the upper edge 16 of the front panel 12 and the strip 14 to permit the hand to be inserted therebetween for inspection of the vegetables 21.

2

The bag 10, as seen in Figures 1 and 2, has a machine loading lip 23 which is that integral portion of the rear panel 11 between the upper edge 17 of the strip 14 and the upper edge 18 of the rear panel 11. In Figure 3, the machine loading lip 23 has been severed from the bag 10 in sealing the strip 14 to the rear panel 11 at 22.

Referring now to Figure 5, the method of forming and filling the bag 10 is illustrated. At the upper left end of Figure 5, a roll 24 of material is illustrated from which the rear panel 11 and front panel 12 are formed. A second roll 25 of substantially narrower width is positioned adjacent one end of the roll 24 to provide material from which the strip 14 is formed.

The material from the rolls 24, 25 is fed through a folding station generally indicated at 26 to fold the front panel 12 along the lower edge 13 into overlapping relation with respect to the rear panel 11 and the strip 14.

Following the folding station 26 a severing station 27 is provided including a heated knife 28 to separate the bags 10 and simultaneously seal the rear panel 11, front panel 12 and strip 14 together along the side edges 19, 20 of the bag 10.

A conveyor 29 conveys the bags 10 to a filling station 30 wherein the leafy vegetables 21 are placed in the bags 10. The bags 10 are then fed to a closing station generally indicated at 31 which includes a heated knife 32 to simultaneously sever the loading lip 23 from the bag 10 and join the strip 14 to the rear panel 11 at 22.

The bags 10 are fed from the closing station 31 to a packing station 33 for packaging for shipment.

It should be understood that the loading lip 23 is used in the loading station 30 to assist in supporting the bag 10 during the placing of the leafy vegetables 21 therein. With the method illustrated in Figure 5, the bags 10 can be formed more cheaply with a materially reduced number of operations while permitting a nearly automatic production line to be established.

Having thus described the preferred embodiments of the invention, it should be understood that numerous structural modifications and adaptations may be resorted to without departing from the scope of the appended claims.

What is claimed is:

1. The method of forming and filling a bag which comprises feeding a relatively narrow strip in superposed relation to a simultaneously fed relatively wide strip, folding said wide strip along an edge parallel to said narrow strip with the folded portion of said wide strip terminating intermediate said narrow strip, simultaneously severing and sealing the side edges of said bag, filling said bag and severing a portion of said bag and simultaneously sealing together the edges formed by said last named severing step following the filling of said bag.

2. A method as claimed in claim 1 wherein the first combined severing, and sealing step heat seals the side edges of said bag securing the side edges of said bag together and simultaneously securing the side edges of said relatively narrow strip thereto.

References Cited in the file of this patent

UNITED STATES PATENTS

2,146,308	Maxfield	Feb. 7, 1939
2,447,014	Irmischer	Aug. 17, 1948
2,562,389	Piazzo	July 31, 1951
2,643,049	Bartelt	June 23, 1953
2,691,259	Weckesser	Oct. 12, 1954
2,873,566	Sylvester et al.	Feb. 17, 1959

Notice of Adverse Decision in Interference

In Interference No. 91,314 involving Patent No. 2,929,180, F. Abrams and J. C. Walters, Method of forming a sales package, final decision adverse to the patentees was rendered Jan. 23, 1963, as to claims 1 and 2.
[*Official Gazette August 27, 1963.*]