June 3, 1958 A. POTDEVIN ET AL 2,837,268

BAGS

Filed Sept. 22, 1955 3 Sheets-Sheet 1

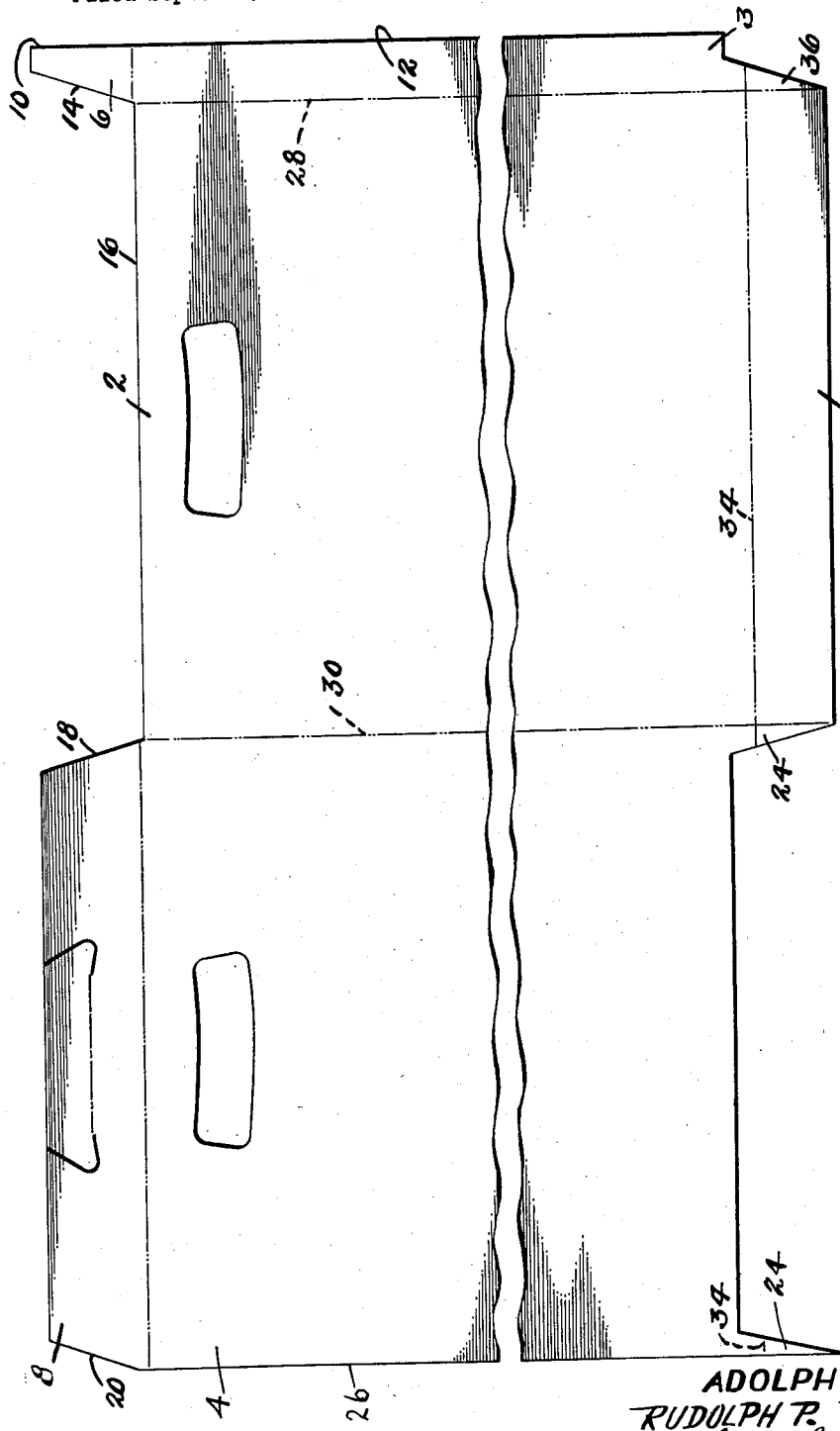


Fig. 1

INVENTORS:
ADOLPH POTDEVIN
RUDOLPH P. BECHLE
James G. Bethel
BY ATTORNEY.

June 3, 1958 A. POTDEVIN ET AL 2,837,268

BAGS

Filed Sept. 22, 1955 3 Sheets-Sheet 2

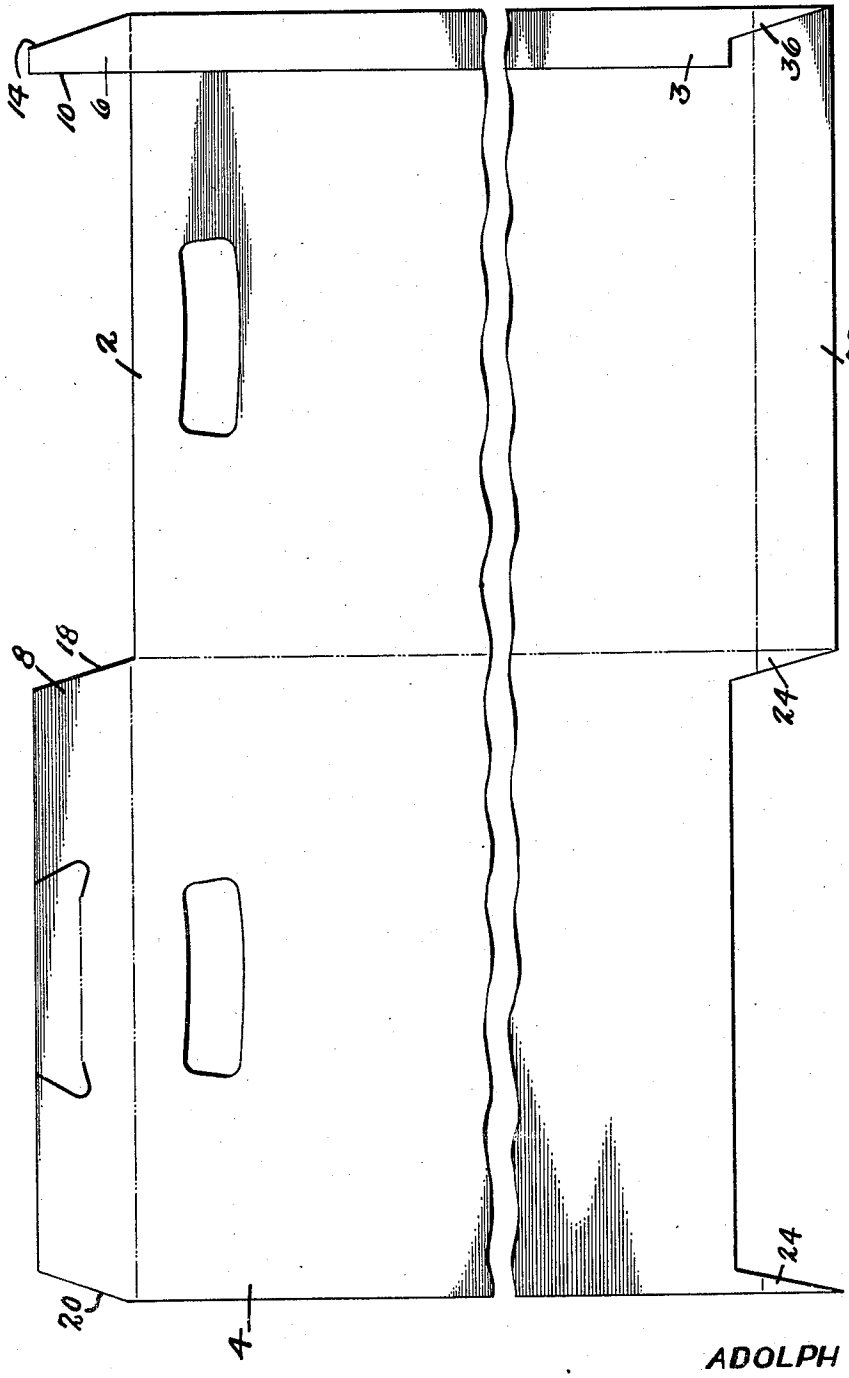


Fig. 2

INVENTORS:
ADOLPH POTDEVIN
RUDOLPH P. BECHLE
By James G. Bechtel
ATTORNEY.

June 3, 1958 A. POTDEVIN ET AL 2,837,268

BAGS

Filed Sept. 22, 1955 3 Sheets-Sheet 3

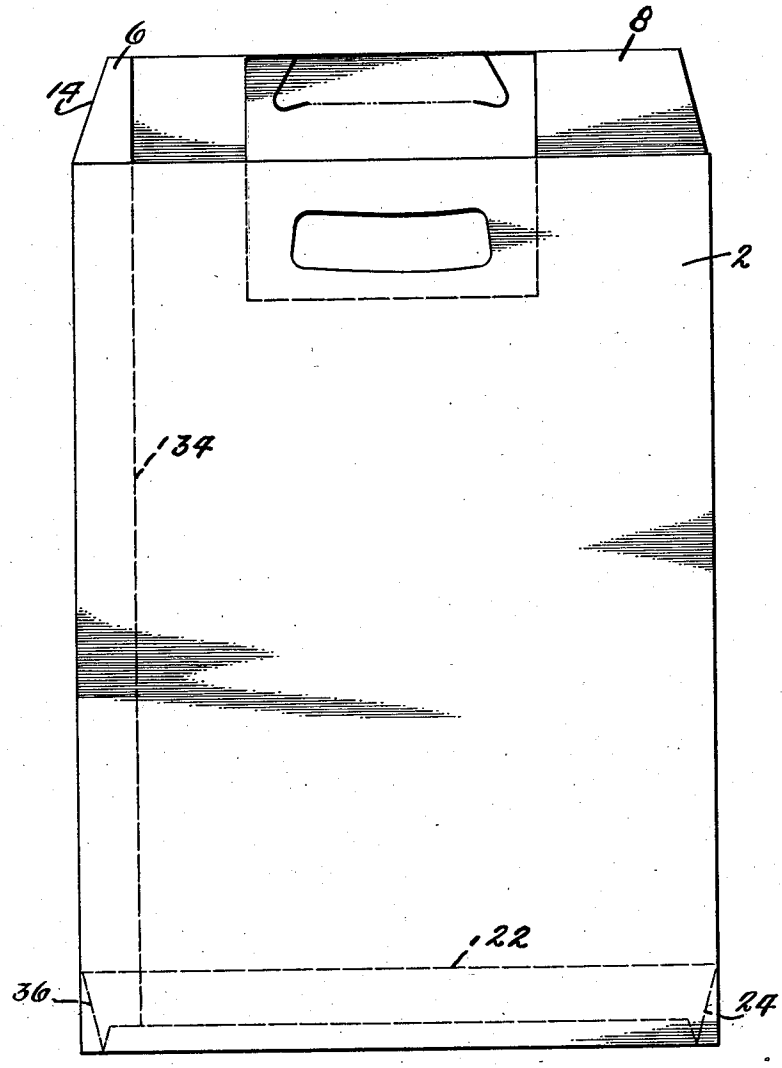


Fig. 3

INVENTORS:
ADOLPH POTDEVIN
RUDOLPH P. BECHLE
By James G. Bethell
ATTORNEY.

United States Patent Office

2,837,268

Patented June 3, 1958

2,837,268

BAGS

Adolph Potdevin, Westwood, and Rudolph P. Bechle, Wyckoff, N. J., assignors to Potdevin Machine Co., Bergen County, N. J., a corporation of New York

Application September 22, 1955, Serial No. 535,868

4 Claims. (Cl. 229—54)

This invention relates to an improvement in paper bags with particular reference to bags of the long lip type, including the locking and carrying type illustrated in the accompanying drawings.

One of the objects of our invention is to provide a bag of this general type with a full side seam, so that the entire width of the front and rear panels or walls of the bag are available for printed matter or for decorative purposes, our construction being such that at the same time we provide a bag of superior appearance in that the two sides or edges of the projecting flap at the bag top are symmetrical.

A further object of the invention is to provide a bag having a full side seam in which, in connection with the side seam, it is unnecessary to make any sacrifice so far as bag capacity is concerned. We might observe also that our improved construction provides a very strong and tight seal at the two corners of the bag bottom.

In the accompanying drawings, wherein we have illustrated an embodiment of our invention,

Fig. 1 is a plan view of the bag blank before folding, the inner face of the blank facing the observer;

Fig. 2 is a view similar to Fig. 1 showing the outer side edge of the front panel or wall infolded over upon itself; and

Fig. 3 is a front elevation of the completed bag.

The bag of our invention is fabricated from a single web and comprises a panel or wall **2**, a seam forming flap **3** along the outer edge of panel **2**, said flap being integral with the panel, and an integral panel or wall **4**. For descriptive purposes only, **2** will be referred to hereinafter as the front panel or wall and **4** as the rear panel or wall.

The seam forming flap **3** of the front panel **2** projects beyond the top of the panel **2** (as viewed in Fig. 2) to provide a projecting portion **6**, while the rear panel **4** is shaped to provide a projecting flap **8** across its entire top.

The outer edge **10** of the projecting flap or tab **6**, as seen from Fig. 1, in effect, is a continuation of the straight edge **12** of the seam-forming flap **3**. The inner edge **14** of the projecting flap or tab **6**, however, extends or inclines outwardly from the upper edge **16** of panel **2** toward the edge of the straight edge **12** of the projection **6** at an obtuse angle to the upper edge **16** of the front panel. The upper edge **16** of the panel **2** is at right angles to the edge **12** of projection **6**.

The inner and outer edges **18** and **20** of the flap **8** of the rear wall or panel **4** converge toward each other, the angle of inclination of these edges being the same as that of the inner edge **14** of the seam forming flap **3**. It should be observed also that the distance between the base end or inner end of the divergent edge **14** of the projecting portion **6** of the seam-forming flap **3** and the base end or inner end of the convergent side edge **18** of the flap **8** is substantially the same as the distance between

the base or inner ends of the convergent side edges **18** and **20** of the flap **8** (see Fig. 1).

The lower end of the bag blank or web is complementary to the upper end, making it possible to cut a multiplicity of blanks from a continuous web without waste or without discarding any areas of paper. As will be seen from the drawings, the front panel **2** at its lower end has a projecting flap **22**, which is complementary to the space between the projecting flaps **6** and **8** at the upper end of the panel, while the material of the lower end of the rear panel **4** is cut out complementary to the projecting flap **8** at the upper end of this panel, providing tapered tabs **24** at the outer and inner edges of panel **4**, the inner edges of these tabs being inclined at the same angles as the edges **18** and **20** of projecting flap **8**.

In forming a bag from the blank of Fig. 1, the seam-forming flap **3** of the front panel **2** is infolded over upon the panel along the inner edge of the flap, shown as a dot-and-dash line **28** in Fig. 1, as illustrated in Fig. 2. The blank is then folded along the fold line **30** to bring the two panels **2** and **4** into superimposed relation. The infolded seam-forming flap **3** and the corresponding overlapping area of the rear panel may now be glued together to provide the side seam **34** (Fig. 3). Inasmuch as only the seam-forming flap **3** of the front panel has been inturned and inasmuch as the fold line **30** is midway between the inner edge **28** of the seam-forming flap **3** and the outer edge **26** of the rear panel or wall **4**, we provide a full side seam, so that the entire width of both bag walls or panels is available for printing or decorative purposes. The flap **22** at the lower end of the panel **2** is then folded over upon the rear panel **4** along the fold line **34** and the two glued together, to bottom the bag, as illustrated in Fig. 3.

It is to be observed that, when the seam-forming flap **3** is infolded, this, in effect, provides a projecting flap **36** at the outer edge of the lower end of the front panel **2**, so that, when the bag is bottomed by folding over the flap **22**, whether the fold line **34** is as illustrated or moved up or down from the position shown, the two flaps **24** and flap **36** will be folded over at the same time to provide very strong and thoroughly sealed corners for the bag bottom.

It is to be understood that changes may be made in the configuration or shape of the web within the purview of our invention.

What I claim is:

1. A bag blank comprising two integral panels; a relatively narrow seam-forming flap along the outer edge of and integral with one panel and projecting beyond one end thereof adjacent the outer edge of the panel, the inner edge of the projecting portion of said seam-forming flap inclining toward the outer edge of the flap; and an integral flap projecting from the same end of and extending entirely across the other panel, said last-mentioned flap having convergent side edges, the angle of inclination of each of which is substantially equal to the angle of inclination of the said inner edge of the first-mentioned flap, the distance between the inner end of the inclined inner edge of the projecting portion of the said seam-forming flap and the inner end of the adjacent inclined edge of the said second flap being substantially the same as the distance between the inner ends of the two convergent edges of the said second flap.

2. A bag blank comprising two integral panels; a relatively narrow, seam-forming flap along the outer edge of and integral with one panel and projecting beyond one end thereof adjacent the outer edge of the panel, the inner edge of the projecting portion of said seam-forming flap inclining toward the outer edge of the flap; an integral flap projecting from the same end of and extending

entirely across the other panel, said last-mentioned flap having convergent side edges, the angle of inclination of each of which is substantially equal to the angle of inclination of the said inner edge of the first-mentioned flap, the distance between the inner end of the inclined inner edge of the projecting portion of the said seam-forming flap and the inner end of the adjacent inclined edge of the said second flap being substantially the same as the distance between the inner ends of the two convergent edges of the said second flap; a relatively narrow flap integral with the second-mentioned panel, the inner edge of this flap inclining toward its outer edge at the same angle of inclination as that of the inner edge of the said seam-forming flap; and a flap integral with the first-mentioned panel and projecting beyond the end of the same, opposite said seam-forming flap, this flap extending entirely across its panel and having convergent side edges, the angle of inclination of each of which is substantially equal to the angle of inclination of the inner edge of the said seam-forming flap.

3. A bag comprising a single sheet of material to provide integral front and rear walls, the outer edge portion of the front wall being provided throughout its length with an inturned, integral, seam-forming flap, the bag material being folded along a longitudinal line to bring the said rear wall into superimposed relation to the outer face of the inturned, seam-forming flap, to which it is secured, thereby to provide a full side seam for the bag; the said rear wall of the bag being provided across its entire width at the open end of the bag with a projecting flap having convergent side edges; the said seam-forming flap projecting beyond the end of the front wall to provide a narrow projection upon which the flap of the rear wall is superimposed and to which it is secured, the said narrow projection having an inclined side edge which coincides with the outer convergent side of the flap of the rear wall of the bag.

4. A bag comprising a single sheet of material to provide integral front and rear walls, the outer edge portion of the front wall being provided throughout its length with an inturned, integral, seam-forming flap, the bag material being folded along a longitudinal line to bring the said rear wall into superimposed relation to the outer face of the inturned, seam-forming flap, to which it is secured, thereby to provide a full side seam for the bag, the said rear wall of the bag being provided across its entire width at the open end of the bag with a projecting flap having convergent side edges, the said seam-forming flap projecting beyond the end of the front wall to provide a narrow projection upon which the flap of the rear wall is superimposed and to which it is secured, the said narrow projection having an inclined side edge which coincides with the outer convergent side of the flap of the rear wall of the bag; a flap integral with and projecting beyond the end of the front wall at the bottom of the bag across the width of said wall; and narrow flaps integral with and projecting beyond the bottom end of said rear wall at the inner and outer edges of the rear wall, all of said flaps at the bottom end of the bag walls being folded over in superimposed relation upon the outer face of the rear wall along a line intermediate the inner and outer flap extremities, to bottom the bag.

References Cited in the file of this patent

UNITED STATES PATENTS

1,629,852	Wolf	May 24, 1927
1,963,190	Berkowitz	June 19, 1934
2,139,654	Berkowitz	Dec. 13, 1938
2,163,963	Poppe	June 27, 1939
2,480,416	Modes	Aug. 30, 1949
2,549,931	Reiss	Apr. 24, 1951
2,574,050	McCart	Nov. 6, 1951
2,609,138	Weiss	Sept. 2, 1952