

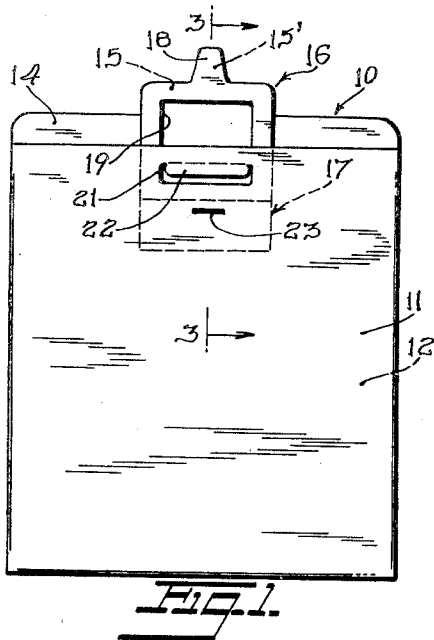
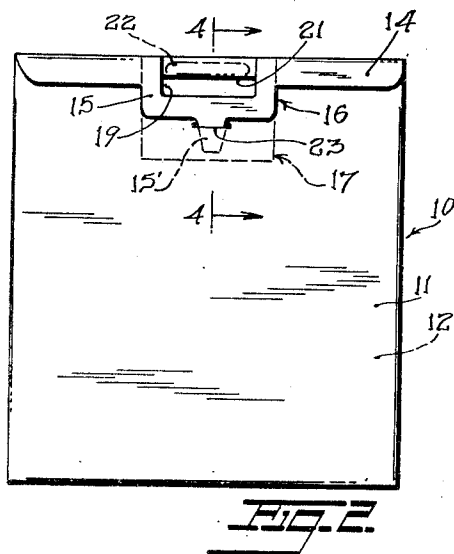
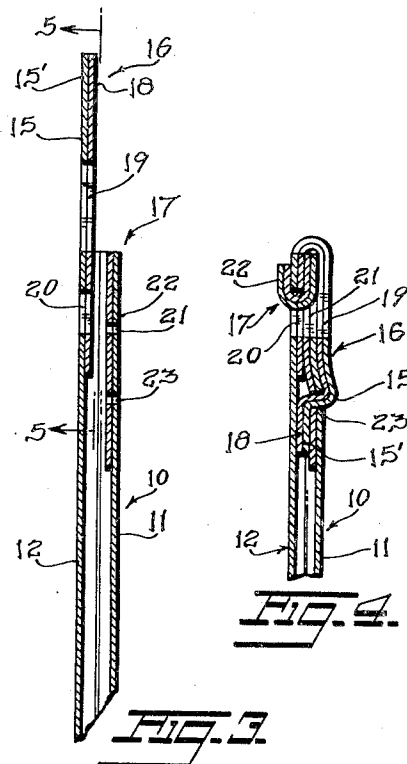
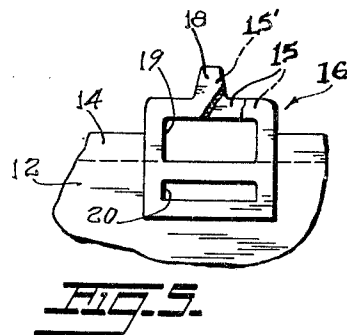
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PAPER BAG CONSTRUCTION

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PAPER BAG CONSTRUCTION

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8 Claims. (Cl. 229-68)

1

This invention relates to new and useful improvements in paper bags, and, more particularly, the aim of the invention is to provide a novel and valuable bag made of ordinary paper bag sheet material, well-known to be relatively weak, but incorporating two permanently carried comparatively small sheet additions of cardboard or of some other material of suitably greater heaviness and strength than said ordinary paper bag sheet material; such parts combined pursuant to a concept involving special inexpensive formations including openings through said additions and matching openings through the two walls of the bag. A bag is thereby provided of high utility in various fields, as, for instance, when used as a housewife's shopping bag.

By the provisions of the present invention, the new bag, which may have one of its two walls extended higher than the other such wall, can be securely locked closed at its top and at the locations of said additions, and then a hand opening is provided near the top of the bag fortified by said additions in such manner that, with the bottom and sides of said opening marginally attended by a large plurality of plies of sheet material, the top stretch of said opening, acting as the bag handle, not only includes a plurality of plies of said ordinary bag sheet material but also is fortified by a number of plies of both said additions.

The arrangement is further such that not only is great strength provided all around said opening, but said top stretch thereof is of such overall thickness as to establish a most comfortable handle; the same including three plies of the sheet material of which said additions are made, as well as an equal number of plies of the ordinary bag sheet material.

At the same time, for maintaining the parts as just described once the bag is closed at its top, a tongue and slit means is carried by the two additions and so arranged that by simple downward insertion of the tongue into its slit such maintenance can be assured.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 illustrates a now favored embodiment of the invention, and one in which one bag wall extends higher than the other; this view, where-

2

in the longer wall is the far one, showing said longer bag wall not yet turned down over the shorter wall along a line of fold paralleling the top of the shorter wall.

Fig. 2 is a view similar to Fig. 1, after the upper portion of the longer wall has been folded down over the shorter wall and the top of the bag locked closed to provide the hand opening and handle aforesaid.

Fig. 3 is an enlarged fragmentary vertical section, taken on the line 3-3 of Fig. 1.

Fig. 4 is a similar view, taken on the line 4-4 of Fig. 2.

Fig. 5 is a partially sectional fragmentary elevation, on the same scale as Figs. 1 and 2, of the upper central portion of the longer bag wall as the latter would be viewed from the line 5-5 of Fig. 3.

Referring to the drawings more in detail, the bag, generally marked 10, is made in any of the usual ways in the art of paper bag manufacture to include a pair of walls 11 and 12; the wall 12 being here shown as the longer one so as to incorporate a top extension 14, below called the top flap. Said top flap centrally thereof has an upwardly projected portion 15 upwardly extended from which is a tongue 15'.

The two fortifying additions above-mentioned are marked respectively 16 and 17.

The addition 16 is suitably secured, as by an adhesive, to the inside of the bag wall 12, at a location relative to the latter as shown. This addition is substantially square, with a tongue 18 projected at its top center, said tongue 18 for matching the tongue 15' on the bag wall 12. The addition 16 has an upper larger horizontally elongate opening 19, and a lower similarly elongate opening 20 of the same length as the opening 19 but of less width and preferably about half as wide.

These openings are so placed on the addition 16, and the upwardly projected portion 15 from the top flap 14 is so located on the latter, and said top flap is so apertured at two points that with the addition 16 secured to the bag wall 12 in correct position thereon, said portion 15 registers with the upper half of the addition 16, such apertures match the openings 19 and 20 of the addition 16, and the entirety of an area of the bag wall 12 corresponding to the area of the said addition 16 is of two-ply thickness.

Then also the bottom of the opening 19 is aligned with the top of the back wall 12. Thus when said top flap 14 is folded down as in Fig. 2, such fold traverses the addition 16 by crossing the

3

two sides thereof which mark the bottom of the opening 19.

The addition 17 is suitably secured, as by an adhesive, to the inside of the bag wall 11. As made plain in Fig. 1, the addition 17 is of the same width as the addition 16; and is almost of square outline. The addition 17, aligned with the addition 16 laterally of the bag top, has its upper edge at the top of the bag wall 11, so that, as most clearly shown in Figs. 3 and 4, the bottom of the addition 16 is above the bottom of the addition 17.

The addition 17 is provided with a potential horizontally elongate opening 21; this opening being termed potential because, with the addition 17 cut, as it is, only along the two ends and one only of the sides of such opening, there is primarily provided a flap 22, and thus, only when said flap is arranged as in Figs. 2 and 4, is the opening 21 actually produced. Then the opening 21, together with the matching half of the opening 19 of the addition 16 when the parts are arranged as in Figs. 2 and 4, participates in the establishment of the hand opening at which the bag is grasped for carrying the same.

The cutting of the addition 17 to produce the flap 22 is such, as will be noted, that when said flap is swung out, the said hand opening is of the same length as the openings 19 and 20 of the addition 16 and of the same width as the latter and so only half the width of the former.

Also, the horizontally elongate portion of the addition 17 topping the flap 22 is of the same width as said flap, to predetermine that when the parts are arranged as in Fig. 2 the opening 21 of the addition 17 will register with the opening 20 and with the then lower half of the opening 19 of the addition 16; the just referred to half of the opening 19 being of course the upper half thereof in Fig. 1.

Thus, as previously pointed out, the said hand opening by which the bag is manually carried is participated in by half of the opening 20, and also by the opening 19, and further by the opening 21 when established by redisposition of the flap 22 as in Figs. 2 and 4.

The addition 17 is also provided with a slit 23; and the bag wall 11 carrying said addition is cut so as to have a flap and a slit respectively matching the flap 22 and the slit 23. As already stated, the bag wall 12 carrying the addition 16 is apertured at two places so that such apertures match the openings 19 and 20 of said addition.

As clearly shown in Fig. 3, with the parts arranged as shown there and in Fig. 1, the bag has an open mouth extending all across the width of the bag. To arrange the bag as in Figs. 2 and 4, all that is required is to fold down the top flap 14 and with it the addition 16 to dispose said flap and something more than one half of said addition over the upper portion of the outer side of the bag wall 11, insert the tongue 18 through the slit 23, and fold out and upward the flap 22.

Then, as shown in Fig. 4, the hand opening by which the bag is manually carried is participated in, as already said, by the openings 19, 20 and 21, as well also as by the matching openings through the bag walls 11 and 12, the load-sustaining ends of said hand opening are inclusive of three plies of the strong material of which the additions 16 and 17 are made, and the top stretch of said hand opening, this acting as a bridge-type handle, is inclusive of the same plies as present at said load-sustaining ends; while, further, to give a most comfortable hand-grip, said handle includes in

4

its lateral bulk the thickness of the flap 22 plus an additional ply which is a portion of the bag wall 11.

The fabrication of the new bag is easy and inexpensive, and the production of the additions 16 and 17 is likewise of trifling cost, in which latter connection it is to be noted that there is negligible waste of material in making said additions.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. A paper bag, in combination with a first sheet-like addition and a second sheet-like addition, said first addition secured to the inner side of one of the two walls of the bag and said second addition secured to the inner side of the other of said walls of the bag, said additions made of stronger material than the sheet material of which the bag is made, said additions being of substantially the same dimension laterally of the bag, said first addition having a first opening elongated in a direction laterally of the bag and also having therebelow and vertically aligned therewith a substantially parallel second opening of substantially the same length as that of said first opening but of a width substantially one-half the width of said first opening, said first addition being so positioned on the bag that said first opening has its longitudinal center line opposite and in line with the top of the second-named wall, said first and second openings being so spaced laterally thereof that when said first addition is folded down through substantially 180° about said center line the then lower half of said first opening substantially registers with said second opening, said second addition being cut at points inwardly spaced from the bounds thereof to establish the two ends and the bottom of a flap elongated in a direction laterally of the bag, said flap being approximately of the same length and width as said second opening and being so located on said second addition and the latter being so located on the second-named wall that when said flap is folded outwardly along a line joining the upper termini of such end cuts a third opening is established which also substantially registers with said second opening.

2. A paper bag, in combination with a first sheet-like addition and a second sheet-like addition, said first addition secured to the inner side of one of the two walls of the bag and said second addition secured to the inner side of the other of said walls of the bag, said additions made of stronger material than the sheet material of which the bag is made, said additions being of substantially the same dimension laterally of the bag, said first addition having a first opening elongated in a direction laterally of the bag and also having therebelow and vertically aligned therewith a substantially parallel second opening of substantially the same length as that of said first opening but of a width substantially one-half the width of said first opening, said first addition being so positioned on the bag that said first opening has its longitudinal center line opposite and in line with the top of the second-named wall, said first and second openings being so

5

spaced laterally thereof that when said first addition is folded down through substantially 180° about said center line the then lower half of said first opening substantially registers with said second opening, said second addition being cut at points inwardly spaced from the bounds thereof to establish the two ends and the bottom of a flap elongated in a direction laterally of the bag, said flap being approximately of the same length and width as said second opening and being so located on said second addition and the latter being so located on the second-named wall that when said flap is folded outwardly along a line joining the upper termini of such end cuts a third opening is established which also substantially registers with said second opening, said second addition having its top coextensive with the top of said second-named wall.

3. A paper bag, in combination with a first sheet-like addition and a second sheet-like addition, said first addition secured to the inner side of one of the two walls of the bag and said second addition secured to the inner side of the other of said walls of the bag, said additions made of stronger material than the sheet material of which the bag is made, said additions being of substantially the same dimension laterally of the bag, said first addition having a first opening elongated in a direction laterally of the bag and also having therebelow and vertically aligned therewith a substantially parallel second opening of substantially the same length as that of said first opening but of a width substantially one-half the width of said first opening, said first addition being so positioned on the bag that said first opening has its longitudinal center line opposite and in line with the top of the second-named wall, said first and second openings being so spaced laterally thereof that when said first addition is folded down through substantially 180° about said center line the then lower half of said first opening substantially registers with said second opening, said second addition being cut at points inwardly spaced from the bounds thereof to establish the two ends and the bottom of a flap elongated in a direction laterally of the bag, said flap being approximately of the same length and width as said second opening and being so located on said second addition and the latter being so located on the second-named wall that when said flap is folded outwardly along a line joining the upper termini of such end cuts a third opening is established which also substantially registers with said second opening, said second addition having its top coextensive with the top of said second-named wall, said two additions being respectively of such dimensions depthwisely of the bag that the bottom of said second addition is below the bottom of said first addition.

4. A paper bag, in combination with a first sheet-like addition and a second sheet-like addition, said first addition secured to the inner side of one of the two walls of the bag and said second addition secured to the inner side of the other of said walls of the bag, said additions made of stronger material than the sheet material of which the bag is made, said additions being of substantially the same dimension laterally of the bag, said first addition having a first opening elongated in a direction laterally of the bag and also having therebelow and vertically aligned therewith a substantially parallel second opening of substantially the same length as that of said first opening but of a width substantially one-half the width of said first opening, said first addition

6

being so positioned on the bag that said first opening has its longitudinal center line opposite and in line with the top of the second-named wall, said first and second openings being so spaced laterally thereof that when said first addition is folded down through substantially 180° about said center line the then lower half of said first opening substantially registers with said second opening, said second addition being cut at points inwardly spaced from the bounds thereof to establish the two ends and the bottom of a flap elongated in a direction laterally of the bag, said flap being approximately of the same length and width as said second opening and being so located on said second addition and the latter being so located on the second-named wall that when said flap is folded outwardly along a line joining the upper termini of such end cuts a third opening is established which also substantially registers with said second opening, said first-named wall being higher than the other bag wall to provide a fold-over flap for application to said second-named wall, said flap being cut away opposite said first opening.

5. A paper bag, in combination with a first sheet-like addition and a second sheet-like addition, said first addition secured to the inner side of one of the two walls of the bag and said second addition secured to the inner side of the other of said walls of the bag, said additions made of stronger material than the sheet material of which the bag is made, said additions being of substantially the same dimension laterally of the bag, said first addition having a first opening elongated in a direction laterally of the bag and also having therebelow and vertically aligned therewith a substantially parallel second opening of substantially the same length as that of said first opening but of a width substantially one-half the width of said first opening, said first addition being so positioned on the bag that said first opening has its longitudinal center line opposite and in line with the top of the second-named wall, said first and second openings being so spaced laterally thereof that when said first addition is folded down through substantially 180° about said center line the then lower half of said first opening substantially registers with said second opening, said second addition being cut at points inwardly spaced from the bounds thereof to establish the two ends and the bottom of a flap elongated in a direction laterally of the bag, said flap being approximately of the same length and width as said second opening and being so located on said second addition and the latter being so located on the second-named wall that when said flap is folded outwardly along a line joining the upper termini of such end cuts a third opening is established which also substantially registers with said second opening, said first addition having at about the center of its top an upwardly projected tongue, and said second addition and its carrying wall having a substantially horizontal slit therethrough for receiving said tongue when said first addition is folded over along a line substantially matching the top of said second-named wall.

6. A paper bag, in combination with a first sheet-like addition and a second sheet-like addition, said first addition secured to the inner side of one of the two walls of the bag and said second addition secured to the inner side of the other of said walls of the bag, said additions made of stronger material than the sheet material of which the bag is made, said additions being of

7

substantially the same dimension laterally of the bag, said first addition having a first opening elongated in a direction laterally of the bag and also having therebelow and vertically aligned therewith a substantially parallel second opening of substantially the same length as that of said first opening but of a width substantially one-half the width of said first opening, said first addition being so positioned on the bag that said first opening has its longitudinal center line opposite and in line with the top of the second-named wall, said first and second openings being so spaced laterally thereof that when said first addition is folded down through substantially 180° about said center line the then lower half of said first opening substantially registers with said second opening, said second addition being cut at points inwardly spaced from the bounds thereof to establish the two ends and the bottom of a flap elongated in a direction laterally of the bag, said flap being approximately of the same length and width as said second opening and being so located on said second addition and the latter being so located on the second-named wall that when said flap is folded outwardly along a line joining the upper termini of such end cuts a third opening is established which also substantially registers with said second opening, said first addition having at about the center of its top an upwardly projected tongue, and said second addition and its carrying wall having a substantially horizontal slit therethrough for receiving said tongue when said first addition is folded over along a line substantially matching the top of said second-named wall, said first-named wall being higher than the other bag wall to provide a fold-over flap for application to said second-named wall, said flap being cut away opposite said first opening.

7. A paper bag, in combination with a first sheet-like addition and a second sheet-like addition, said first addition secured to the inner side of one of the two walls of the bag and said second addition secured to the inner side of the other of said walls of the bag, said additions made of stronger material than the sheet material of which the bag is made, said additions being of substantially the same dimension laterally of the bag, said first addition having a first opening elongated in a direction laterally of the bag and also having therebelow and vertically aligned therewith a substantially parallel second opening of substantially the same length as that of said first opening but of a width substantially one-half the width of said first opening, said first addition being so positioned on the bag that said first opening has its longitudinal center line opposite and in line with the top of the second-named wall, said first and second openings being so spaced laterally thereof that when said first addition is folded down through substantially 180° about said center line the then lower half of said first opening substantially registers with said second opening, said second addition being cut at points inwardly spaced from the bounds thereof to establish the two ends and the bottom of a flap elongated in a direction laterally of the bag, said flap being approximately of the same length and width as said second opening and being so located on said second addition and the latter being so located on the second-named wall that

8

when said flap is folded outwardly along a line joining the upper termini of such end cuts a third opening is established which also substantially registers with said second opening, said first addition having at about the center of its top an upwardly projected tongue, and said second addition and its carrying wall having a substantially horizontal slit therethrough for receiving said tongue when said first addition is folded over along a line substantially matching the top of said second-named wall, said first-named wall being higher than the other bag wall to provide a fold-over flap for application to said second-named wall, said flap being cut away opposite said first opening, said second addition having its top coextensive with the top of said second-named wall.

8. A paper bag, in combination with a first sheet-like addition and a second sheet-like addition, said first addition secured to the inner side of one of the two walls of the bag and said second addition secured to the inner side of the other of said walls of the bag, said additions made of stronger material than the sheet material of which the bag is made, said additions being of substantially the same dimension laterally of the bag, said first addition having a first opening elongated in a direction laterally of the bag and also having therebelow and vertically aligned therewith a substantially parallel second opening of substantially the same length as that of said first opening but of a width substantially one-half the width of said first opening, said first addition being so positioned on the bag that said first opening has its longitudinal center line opposite and in line with the top of the second-named wall, said first and second openings being so spaced laterally thereof that when said first addition is folded down through substantially 180° about said center line the then lower half of said first opening substantially registers with said second opening, said second addition being cut at points inwardly spaced from the bounds thereof to establish the two ends and the bottom of a flap elongated in a direction laterally of the bag, said flap being approximately of the same length and width as said second opening and being so located on said second addition and the latter being so located on the second-named wall that when said flap is folded outwardly along a line joining the upper termini of such end cuts a third opening is established which also substantially registers with said second opening, said first addition having at about the center of its top an upwardly projected tongue, and said second addition and its carrying wall having a substantially horizontal slit therethrough for receiving said tongue when said first addition is folded over along a line substantially matching the top of said second-named wall, said first-named wall being higher than the other bag wall to provide a fold-over flap for application to said second-named wall, said flap being cut away opposite said first opening, said second addition having its top coextensive with the top of said second-named wall, said two additions being respectively of such dimensions depthwisely of the bag that the bottom of said second addition is below the bottom of said first addition.

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No references cited.