

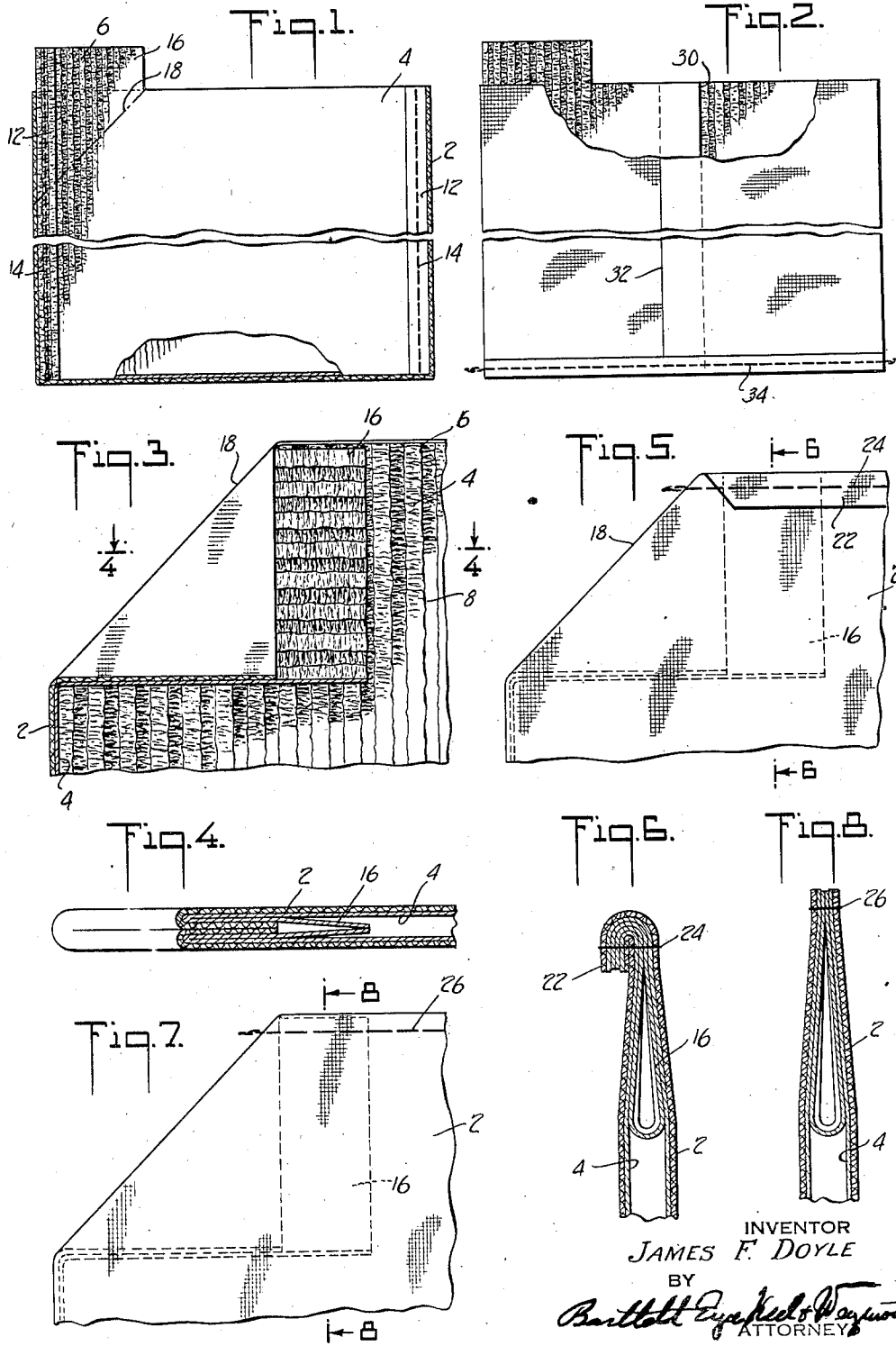
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VALVE BAG

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VALVE BAG

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2 Claims. (Cl. 150—9)

The present invention relates to valve bags, and has special reference to bags of burlap or other textile material that are lined with stretchable paper.

The principal object of the invention is to provide a bag of this character that is simple in construction may be cheaply manufactured and is strong and convenient in use.

Referring to the accompanying drawing,

Figure 1 is a sectional side view, partly diagrammatical and partly broken away of a partially completed bag embodying the invention, the burlap or textile outer covering being shown in section and the lining in sectional elevation;

Fig. 2 is a similar view of a modified construction but with the outer envelope partially broken away;

Fig. 3 is a vertical sectional view on an enlarged scale of the valve portion of the bag with the valve tucked in;

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 3;

Fig. 5 is a side elevation of the valve portion of the completed bag;

Fig. 6 is a sectional view, taken on the line 6—6 of Fig. 5;

Fig. 7 is a view corresponding to Fig. 5 of a modified construction; and

Fig. 8 is a sectional view, taken on the line 8—8 of Fig. 7.

The lined bag illustrated in the drawing, comprises an outer envelope or bag 2 of burlap or other textile material and a lining of paper 4.

The textile bag 2 may be of the usual form as shown.

The paper lining 4 as shown is provided with crinkles 6 extending transversely of the lining to provide for longitudinal stretchability, and flattened corrugations 8 extending longitudinally to provide for circumferential stretchability.

The lining 4 illustrated in Fig. 1 of the drawing may be made of a rectangular sheet of paper which is folded over upon itself on a transverse line. The overlying longitudinal edges 12 on each side of the lining are folded over and closed by a line of stitching 14. Preferably the lining is provided with a valve extension 16 at one corner of its upper edge.

With the bag 2 and lining 4 thus formed, the lining 4 may be inserted in the bag 2 with the upper edge of the lining substantially flush with the upper edge of the bag.

The valve extension 16 together with the associated corner of the lining may then be tucked

in, the folding being substantially on a diagonal line 18.

Such tucking in of the valve extension positions its upper edges 20 substantially flush with the upper edge of the bag and between the upper edges of the sides of the lining.

When the valve extension has thus been tucked in, the upper margin 22 of the bag and lining may be folded over and secured by a line of stitching 24 which closes the upper ends of the bag and lining except for the valve, and secures the upper edges of the valve extension and the tucked in portion of the bag 2 between the side walls of the lining.

With the bag thus formed, the upper edges of the valve are firmly and securely held between the crinkled paper lining and there is no danger of the stitches pulling out or the lining becoming torn from the stitches during the operation of filling the bag. Also, when the bag is filled the soft valve provided by the valve extension of the lining insures tight closing of the valve. With the lining thus applied, it is free to stretch with the outer envelope or bag 2 during the operation of filling the bag through the valve as well as during the handling of the filled bag so that no undue strain is placed on the lining, substantially the entire strain being borne by the textile bag.

It will be apparent that my improved lined bag is simple in construction, may be cheaply manufactured, is strong and convenient in use, and is especially adapted to be made in large sizes for packaging sugar or other finely divided material in one hundred pound lots.

In some cases satisfactory results may be obtained without turning over the upper margin 22 of the bag, the upper edge of the bag being closed merely by a line of stitching 26, as illustrated in Figs. 7 and 8. With this form, the four layers of stretchable paper through which the stitches extend and the two burlap layers insure the valve being securely held without danger of the valve lining tearing away from the stitches.

In the form illustrated in Fig. 2, a lined tube is shown formed by folding the lining blank longitudinally and pasting the edges together in overlapping relation to provide a longitudinally extending overlapping seam 30. The outer envelope or bag is also formed by making a bag tube and securing together the longitudinal edges thereof in overlapping relation to form a longitudinally extending overlapping seam 32. With this construction the lining tube and outer envelope or bag tube may be either separately formed and then assembled or formed simultane-

ously. The lower end of the thus lined bag tube, is folded over and closed by a line of stitching 34. The valve corner of the lined bag thus formed may be tucked in and the upper end of the bag closed in the same manner as the form illustrated in Fig. 1 as above described.

It will be apparent that in the case of this construction as well as the other constructions described the paper lining is free to adjust itself to the bag and no undue strain is placed on the valve or other parts of the lining either during filling or handling of the filled bag.

As will be evident to those skilled in the art, my invention permits various modifications without departing from the spirit thereof or the scope of the appended claims.

What I claim is:

1. In a container of the class described comprising a textile bag and a lining of paper inserted in said bag, the paper lining having crinkles extending transversely thereof to provide for lon-

5 gitudinal stretchability and having longitudinally extending means to provide for circumferential stretchability, the improvement which comprises said lining having a valve extension at one corner of the mouth thereof integral therewith, said valve extension and the corresponding corner of the bag being tucked in to form a valve with the lining of the valve extending a distance inwardly beyond said tucked in valve portion of the bag, and a seam securing together and closing the mouths of the bag and lining and securing the upper edges of the side walls of the valve.

10 2. In a bag of textile material lined with crinkled paper, the improvement which consists in a corner of the bag and lining tucked in to form a valve, the tucked in portion of the lining extending a distance inwardly beyond the tucked in portion of the textile material, said extending portion being integral with the lining.

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