Dec. 23, 1958 W. A. RINGLER 2,865,498

PAPERBOARD TOBACCO POUCH

Filed March 13, 1956 2 Sheets-Sheet 1

FIG. 1.

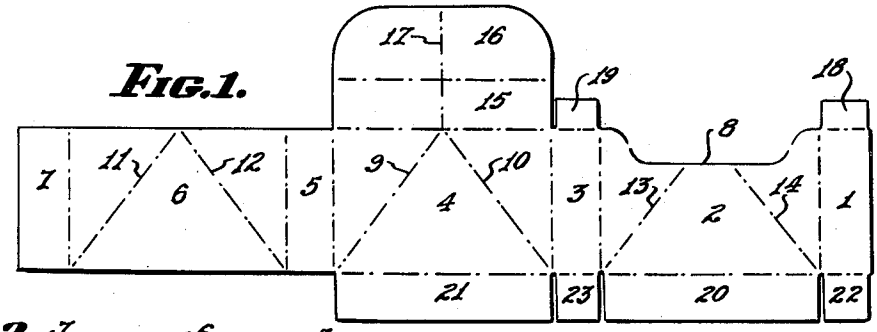


FIG. 2.

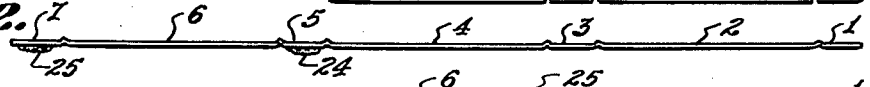


FIG. 3.

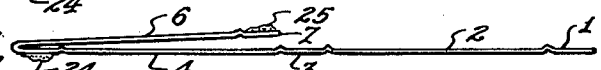


FIG. 4.

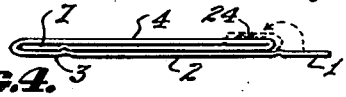


FIG. 5.

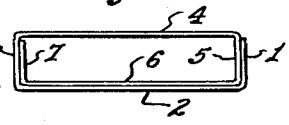


FIG. 6.

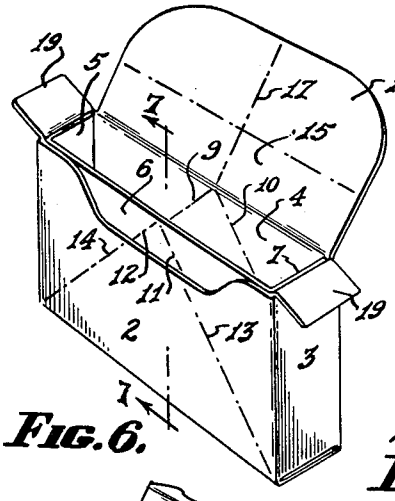


FIG. 8.

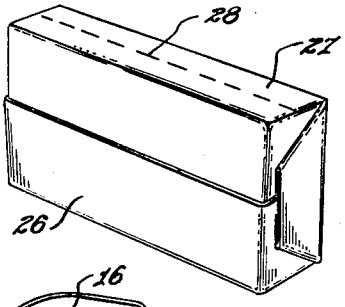


FIG. 7.

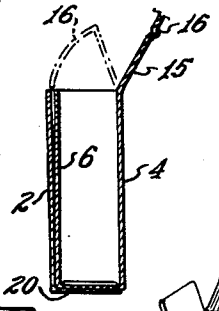


FIG. 10.

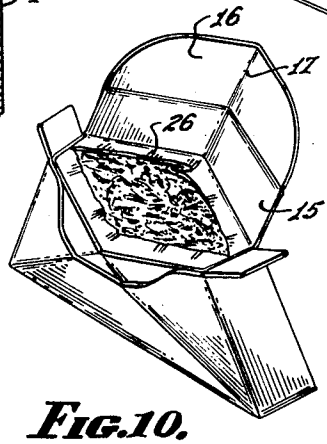
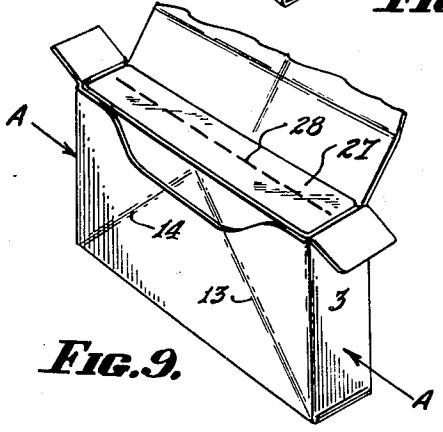


FIG. 9.



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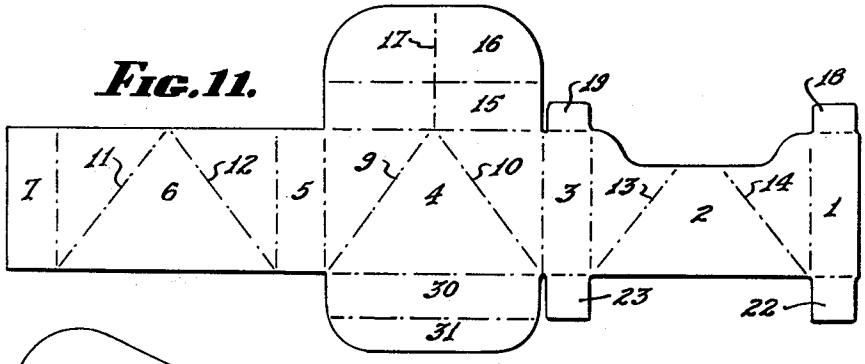
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FIG. 11.



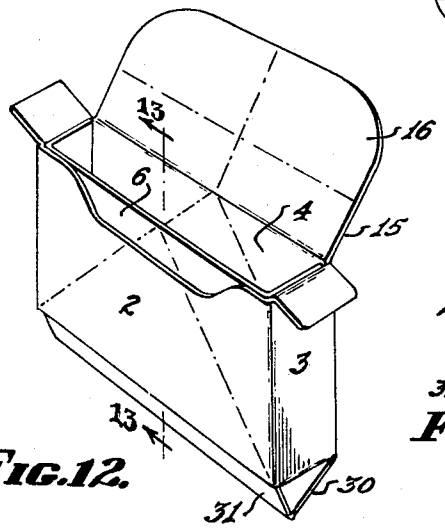


FIG. 12.

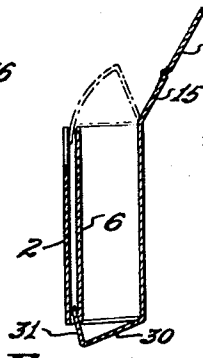


FIG. 13.

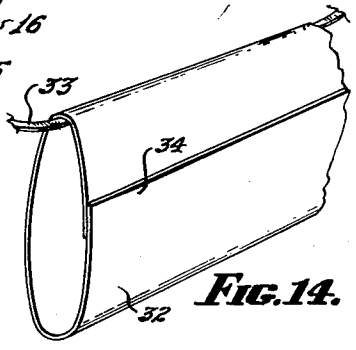


FIG. 14.

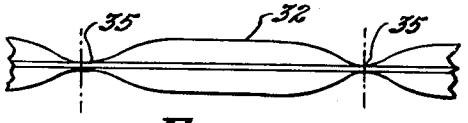


FIG. 15.

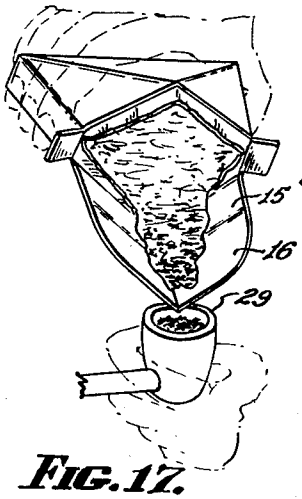


FIG. 17.

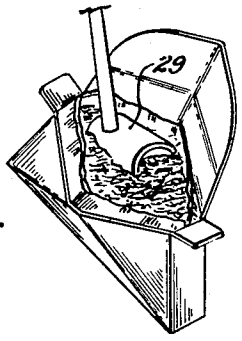


FIG. 18.

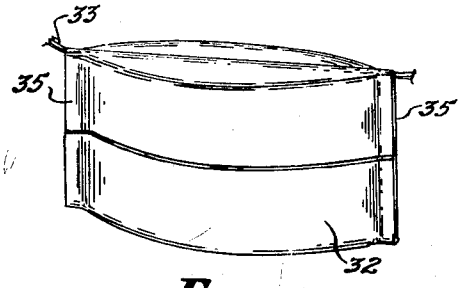


FIG. 16.

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PAPERBOARD TOBACCO POUCH

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Application March 13, 1956, Serial No. 571,188

5 Claims. (Cl. 206—41.1)

My invention relates to a packaging structure and more particularly to a package in which a sales unit of smoking tobacco may be packed for sale to the consumer, the package in the hands of the consumer forming a convenient pouch from which the tobacco may be readily dispensed.

It is a principal object of my invention to provide a tobacco pouch composed of a paperboard carton and an inner wrapper or packet in which the tobacco is packed, the carton being so constructed and arranged that its opposed walls will flex outwardly so that the tobacco may be readily dispensed from the pouch.

A further object of my invention is the provision of a tobacco pouch of the character described incorporating a top closure which provides a pouring spout for the tobacco when the front and rear walls of the pouch are expanded; the said top closure, when in closed position, having a flap portion thereof fitted between the front wall of the pouch and an inner front wall to lock the walls of the pouch against displacement to their expanded dispensing position.

A further object of my invention is the provision of a pouch of the character described which may be readily fabricated from a one-piece cut and scored paperboard blank utilizing conventional folding and gluing equipment.

Still a further object of my invention is the provision of a dispensing tobacco pouch in which the tobacco is packed in a moisture-proof liner which may be readily opened for use.

The foregoing as well as other objects of my invention which will appear hereinafter or which will be apparent to the skilled worker in the art upon reading these specifications, I accomplish by those constructions and arrangements of parts of which I shall now describe certain exemplary embodiments.

Reference is now made to the accompanying drawings wherein:

Figure 1 is a plan view of a blank for a tobacco pouch in accordance with my invention.

Figure 2 is a side elevational view of the blank of Figure 1 illustrating the initial application of adhesive to the blank.

Figures 3 and 4 are side elevational views similar to Figure 2 illustrating successive steps in the folding of the blank.

Figure 5 is a view of the folded blank of Figure 4 in erected condition.

Figure 6 is a perspective view of the erected pouch with the top closure in open position.

Figure 7 is a vertical sectional view taken along the line 7—7 of Figure 6.

Figure 8 is a perspective view of a wrapper for the tobacco.

Figure 9 is a perspective view similar to Figure 7 showing the wrapper positioned within the pouch.

Figure 10 is a perspective view illustrating the pouch with its walls expanded to dispensing position.

Figure 11 is a plan view of a modified form of blank.

Figure 12 is a perspective view of a pouch formed from the blank of Figure 11.

Figure 13 is a vertical sectional view taken along the line 13—13 of Figure 12.

Figure 14 is a perspective view illustrating the formation of a tubular tobacco wrapper incorporating a tear tape.

Figure 15 is a plan view illustrating the manner in which the sleeve structure of Figure 14 is formed into individual packets of tobacco.

Figure 16 illustrates a packet or wrapper incorporating a tear tape.

Figure 17 is a perspective view illustrating the manner in which the top closure of the pouch may be used as a dispensing means for filling tobacco directly into a pipe.

Figure 18 is a perspective view illustrating how a pipe may be inserted into the pouch when the walls of the pouch are expanded.

Referring first to Figure 1 of the drawings, I have therein illustrated a paperboard blank for forming my tobacco pouch, the blank being cut and scored to provide an outer end wall **1**, outer front wall **2**, outer end wall **3**, and rear wall **4** in side-by-side articulation in the order named. Projecting outwardly from the free side edge of the rear wall is an inner end wall **5**, an inner front wall **6** and an inner end wall **7**. All of the parts thus far described are preferably of equal depth with the exception of the outer front wall **2** which is cut away along its upper edge, as indicated by the reference numeral **8**. Diagonal score lines **9** and **10** extend through the rear wall **4**, the score lines starting at the lower corners of the rear wall and meeting at a point of juncture midway between the ends of the top edge of the rear wall. Corresponding diagonal score lines **11** and **12** are formed in the inner front wall **6** and these score lines are adapted, in the erected structure, to coincide with diagonal score lines **13** and **14** formed in the outer front wall **2**.

A top closure member **15** is articulated to the upper edge of the rear wall **4** and the closure member carries a relatively deep tuck flap **16**. A score line **17** bisects the top closure member and tuck flap, the score line projecting outwardly from the point of juncture of the diagonal score lines **9** and **10**. The top closure may also include narrow closure flaps **18** and **19** connected to the upper edges of the outer end walls **1** and **3**, respectively. The bottom closure is composed of seal end flaps **20** and **21** articulated to the lower ends of the walls **2** and **4**, respectively, and narrow seal end flaps **22** and **23** articulated to the lower ends of the end walls **1** and **3**, respectively.

The blank just described may be conveniently assembled by first applying adhesive to the under surfaces of the inner end walls **5** and **7**, such adhesive being indicated by the shaded areas **24** and **25** seen in Figure 2. Thereafter, the blank is folded along the line of articulation between inner end wall **5** and inner front wall **6**, the parts thus assuming the position illustrated in Figure 3. The blank is next folded along the line of articulation between outer end wall **3** and rear wall **4**, thus bringing the parts to the position illustrated in Figure 4 in which position the inner end wall **7** is juxtaposed to the outer end wall **3** with the adhesive **25** interposed therebetween. The outer end wall **1** is folded to overlie the inner end wall **5** carrying the adhesive area **24**. The structure may then be tubed to bring it to the condition illustrated in Figure 5.

The completed pouch with its top closure in open position is illustrated in Figure 6. It will be understood, of course, that subsequent to the tubing of the blank, the bottom closure flaps will be infolded and secured together. It will be noted that in the finished structure

the inner front wall 6 is juxtaposed to the outer front wall 2 with the diagonal score lines 11, 13 and 12, 14 coinciding. The cut away area 8 of the outer front wall exposes a portion of the inner front wall 6 and enables the user to readily insert the tuck flap 16 between the inner and outer front walls, as illustrated in dotted lines in Figure 7, to close the pouch.

Figure 8 illustrates a tobacco wrapper or packet 26 in which the tobacco is sealed. In the embodiment illustrated the packet is of generally rectangular configuration corresponding to the dimensions of the pouch and of a size to be received therein, in the manner best seen in Figure 9. The material from which the wrapper or packet is formed does not constitute a limitation on my invention and diverse materials may be employed, as is well within the ken of the skilled worker in the art. Preferably, the packet will be formed from a moisture proof material and will be sealed so as to prevent the exchange of air from the inside to the outside of the packet, thereby maintaining the tobacco in fresh condition. The top wall 27 of the packet may be provided with a longitudinally extending line for severance 28 by means of which the packet may be readily opened for use by running a knife blade or other sharp object along the line for severance.

In use, the pouch is opened by first lifting the top closure and severing the packet along the line for severance 28, whereupon inwardly directed pressure is applied to the end walls of the pouch, as indicated by the arrows A in Figure 9. The inwardly directed pressure on the end walls will cause the front and rear walls to buckle or expand outwardly along their diagonal score lines, thus opening up the pouch in the manner illustrated in Figure 10. It will be noted that the inner and outer front walls buckle or fold together along their coinciding diagonal score lines; and the folding of the rear wall 4 along its diagonal score lines 9 and 10 results in the transverse folding of the top closure member 15 and tuck flap 16 along the medial score line 17. It will be noted that the packet or wrapper expands along with the front and rear walls as the ends of the pouch are compressed, thereby providing ready access to the supply of tobacco.

Referring now to Figure 17 of the drawings, it will be evident that the medially folded top closure member 15 and tuck flap 16 will provide a convenient pouring spout or filling member by means of which the tobacco may be filled directly into a pipe. By the same token, when the front and rear walls of the pouch are expanded, it is also possible for the user to insert the pipe 29 directly into the supply of tobacco, as illustrated in Figure 18, the expanded condition of the front and rear walls providing ample room within the pouch for the insertion of the pipe.

Subsequent to the filling of the pipe, the pouch may be reclosed by releasing the end walls and pressing inwardly on the front and rear walls, thus causing the latter walls to return to substantially planar condition. The closure flaps may then be infolded and the tuck flap 16 fitted between the inner and outer front walls to close the pouch. It should be pointed out that when the tuck flap 16 is fitted between the inner and outer front walls, the walls are locked against displacement along their diagonal score lines and hence the walls of the pouch cannot be accidentally displaced and the contents spilled.

Figures 11, 12 and 13 illustrate a modification of my tobacco pouch wherein, for purposes of simplicity, like parts have been given like reference numerals. In this embodiment the seal end flaps 20 and 21 are replaced by a bottom closure flap 30 articulated to the lower edge of rear wall 4, the bottom closure flap carrying a tuck flap 31 which is adapted, in the erected structure, to be inserted between the lower edges of the outer and inner front walls 2 and 6, respectively, as will be clearly apparent from Figures 12 and 13. This arrangement is advantageous in that it eliminates the bottom sealing operation and, at the same time, the sandwiching of the tuck flap 31 between the juxtaposed front wall panels provides a suitably tight closure.

Figures 14, 15 and 16 illustrate a convenient form of tobacco packet provided with a tear tape extending along its upper edge by means of which the packet may be readily opened. The packet may be conveniently formed by tubing a web of packet forming material 32, the web first having applied thereto a continuous length of tear tape material 33, the tear tape being positioned with respect to the side edges of the web so that it will lie along what will be the uppermost portion of the resultant tube. The web of material, upon being tubed by bringing its opposite edges together to form a longitudinal seam 34, may then be filled with increments of tobacco separated by the transversely sealed areas 35, as seen in Figure 15. The individual packets may then be separated in the seam areas and fed into the paperboard pouches, as will be readily understood by the skilled worker in the art. Here again the nature of the packet forming material does not constitute a limitation on my invention, although it will be preferably of a heat sealable nature so that the closure seams may be readily formed in a rapid and continuous operation.

Modifications may, of course, be made in my invention without departing from the spirit of it. Having, however, described my invention in certain exemplary embodiments, what I desire to secure and protect by Letters Patent is:

1. In a paperboard tobacco pouch, a tubular body having an end wall, a front wall, an end wall and a rear wall in articulation in the order named, an inner end wall articulated to the free side edge of said rear wall and juxtaposed and secured to the inner surface of said first named end wall, an inner front wall articulated to said inner end wall and juxtaposed to the inner surface of said front, and an inner end wall articulated to the opposite side edge of said inner front wall and juxtaposed to the inner surface of said second named end wall, a pair of diagonal score lines in said rear wall and mating pairs of diagonal scorelines in said front wall and said inner front wall, the diagonal score lines in each of said walls extending from the lower corners of the walls to a point of juncture at the upper edges of the walls midway between the end edges thereof, a top closure flap articulated to the upper edge of said rear wall, a tuck flap articulated to said closure flap, a score line extending outwardly through said top closure flap and said tuck flap from the point of juncture of the diagonal score lines in said rear wall, a bottom closure flap articulated to the lower edge of said rear wall, and additional end closure flaps articulated to the upper and lower ends of said end walls, said rear wall and the juxtaposed front wall and inner front wall being collapsible outwardly along said pairs of diagonal score lines upon the exertion of inwardly directed pressure against the end walls of said pouch, said top closure flap and said tuck flap being foldable along the score line therein to define a pouring spout when said rear wall is folded outwardly along the diagonal score line therein, said tuck flap in the closed position of the pouch extending downwardly between said front wall and said inner front wall and serving to prevent folding movement of said pouch along said diagonal score line when said pouch is in the closed position.

2. The pouch structure claimed in claim 1 wherein a tuck flap is articulated to the said bottom closure flap, said last named tuck flap being adapted to be inserted between the lower edges of said front wall and said inner front wall and of a size and configuration such that it does not interfere with the outward folding of said front wall and said inner front wall along the diagonal score lines therein.

3. The pouch structure claimed in claim 1 wherein

said bottom closure flap is a seal end flap, and wherein a coacting seal end flap is articulated to the lower edge of said front wall, with all of the flaps at the lower end of said pouch in infolded and adhesively secured together.

4. In a blank for a paperboard tobacco pouch, a first end wall, a front wall, a second end wall, a rear wall, a first inner end wall, an inner front wall and a second inner end wall in side-by-side articulation in the order named, a top closure flap articulated to the upper edge of said rear wall, a bottom closure flap articulated to the lower edge of said rear wall, additional closure flaps articulated to the upper and lower edges of said first and second end walls, and a tuck flap articulated to the outer edge of said top closure flap, corresponding pairs of diagonal score lines in said rear wall, said front wall and said inner front wall, the diagonal score lines in each of said walls extending from the lower corners of the walls to a point of juncture midway between the upper edges of the walls, and a score line extending transversely through said top closure flap and said tuck flap, said score line terminating at its inner end at the point of juncture of the diagonal score lines in said rear wall and acting to divide said top closure flap and said tuck flap into two relatively foldable parts.

5. A paperboard tobacco pouch consisting essentially of a tubular body having an end wall, a front wall, an end wall, and a rear wall in articulation in the order named, a first inner end wall articulated to said rear wall and juxtaposed and secured to the inner surface of said first named end wall, an inner front wall articulated to said first inner end wall and juxtaposed to

the inner surface of said front wall, and a second inner end wall articulated to the opposite side edge of said inner front wall and juxtaposed and secured to the inner surface of said second named end wall, corresponding pairs of diagonal score lines in said rear wall, said front wall and said inner front wall, the diagonal score line in each of said walls extending from the lower corners of the walls to a point of juncture midway between the upper edges thereof, a bottom closure for said tubular body, and a top closure including a top closure flap articulated to the upper edges of said rear wall and a tuck flap articulated to said top closure flap, a transversely disposed score line in said top closure flap and said tuck flap, said score line extending outwardly from the point of juncture of the diagonal score lines in said rear wall and acting to divide said top closure flap and said tuck flap into two relatively foldable parts, and in combination therewith, a flexible packet of tobacco contained in said tubular body, said packet being a size to just nicely fit within the confines of said tubular body and having an upper end which is exposed when said top closure flap is raised, the upper end of said packet being severable along a line extending lengthwise of said pouch.

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