Jan. 25, 1938. R. L. WISE 2,106,388

PACKAGE

Filed April 11, 1935 3 Sheets-Sheet 1

Fig. 1.

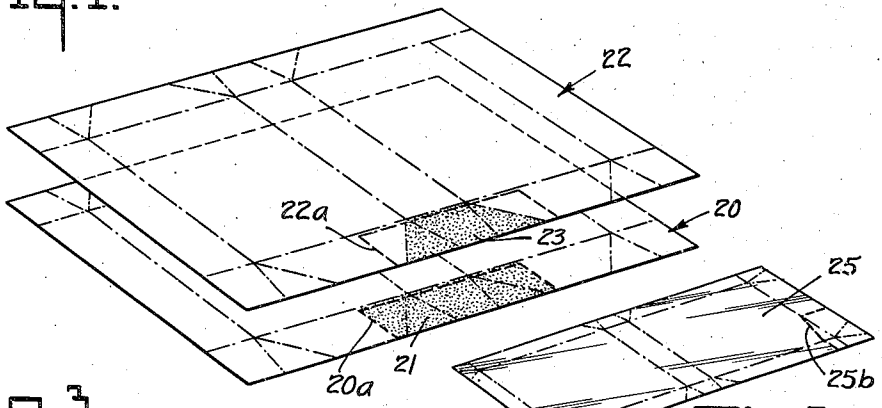


Fig. 2.

Fig. 3.

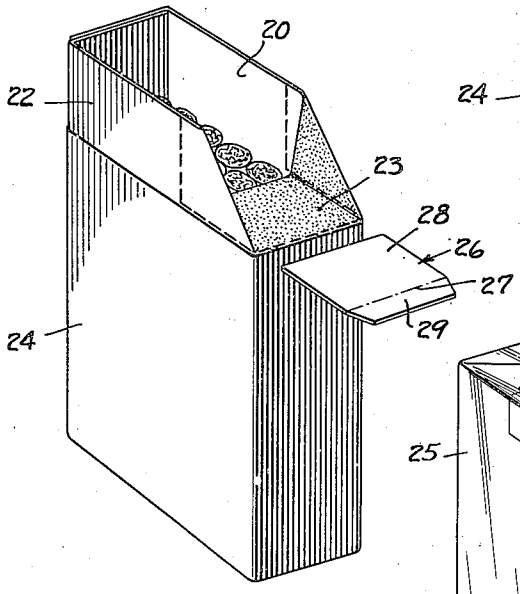


Fig. 4.

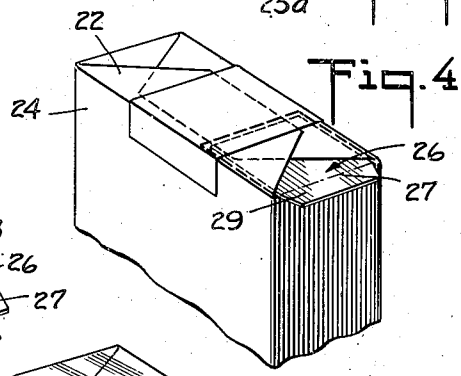
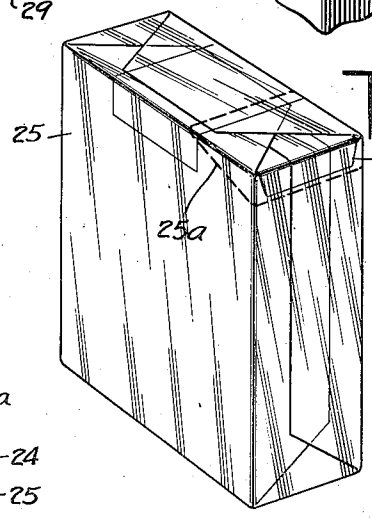


Fig. 5.



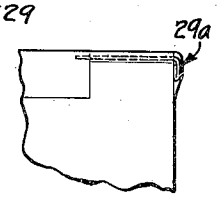


Fig. 7

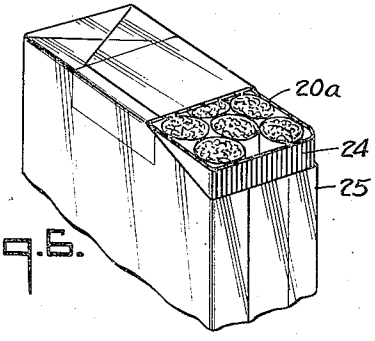


Fig. 6.

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Fig.8.

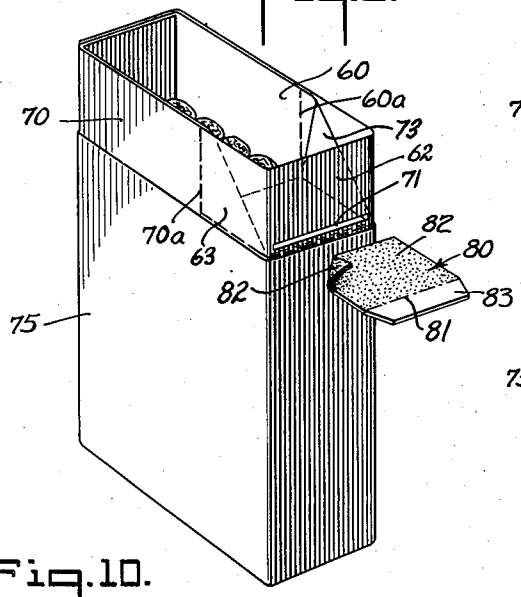


Fig.9.

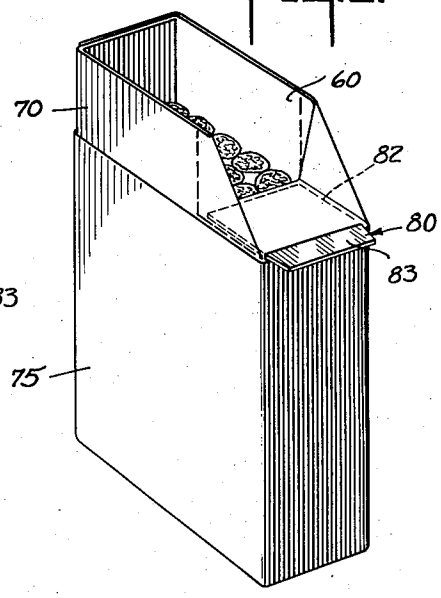


Fig.10.

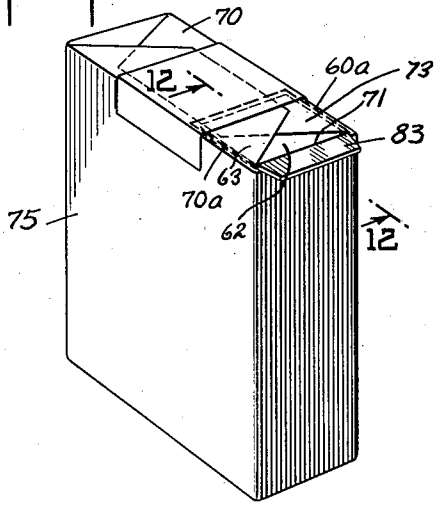
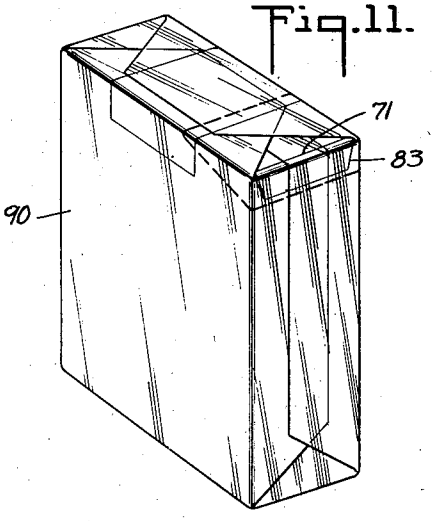


Fig.11.



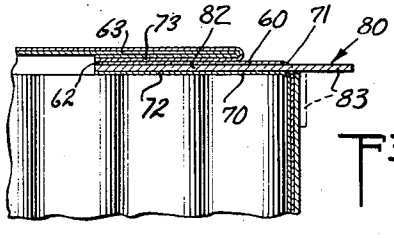


Fig.12.

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Fig. 13.

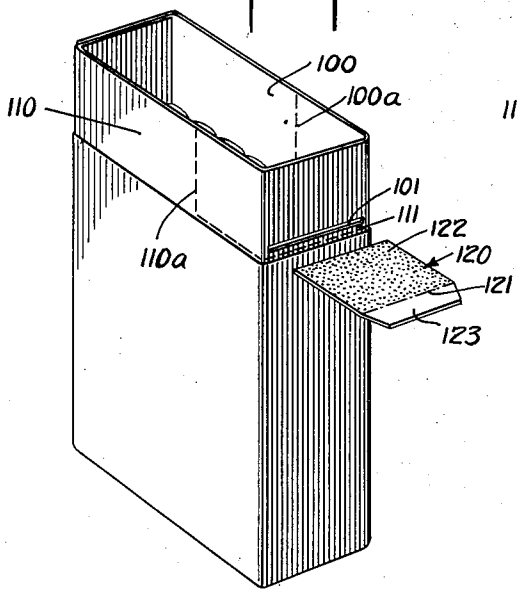
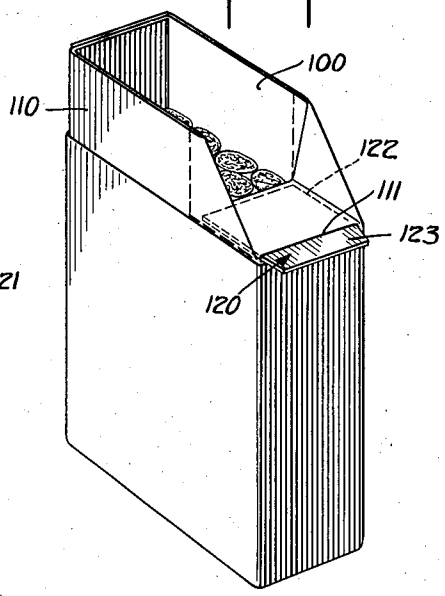


Fig. 14.



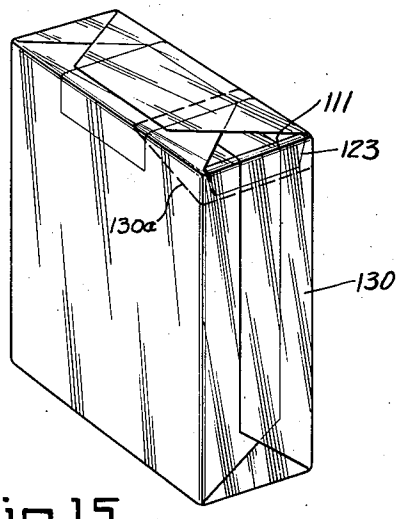
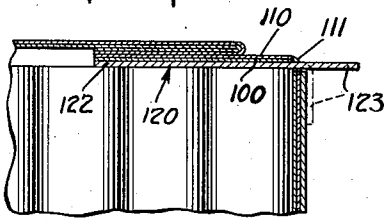


Fig. 15.

Fig. 16.



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UNITED STATES PATENT OFFICE

2,106,388

PACKAGE

Raymond L. Wise, New York, N. Y.

Application April 11, 1935, Serial No. 15,847

13 Claims. (Cl. 229—51)

This invention relates to packages, and particularly to paper cigarette packages. It is an object of this invention to provide a package which will be securely closed and air tight and which at the same time will be easy and simple to open and will be neat after it is opened.

Further objects of this invention will become apparent during the course of the specification. In the drawings, three embodiments are shown. In Figs. 1–6, which illustrate the first embodiment,

Fig. 1 is a perspective view showing two sheets superposed and about to be placed together;

Fig. 2 is a perspective view of the cover wrapper sheet on a reduced scale;

Fig. 3 is a perspective view of the package in the process of assembly with the sheets folded over to close the bottom end and projecting past the top end, and the tab member about to be applied;

Fig. 4 shows the package complete except for application of the cover wrapper;

Fig. 5 shows the package complete;

Fig. 6 shows the package after being opened; and

Fig. 7 illustrates a modified form of tab-member.

Figs. 8–12 show a second form of my invention, in which

Fig. 8 is a view of the package partially assembled with the tab member about to be applied,

Fig. 9 is a view of the package in process of assembly, the tab member having been applied at this stage,

Fig. 10 is a view of the package complete except for application of the cover wrapper,

Fig. 11 is a view of the completed package, and

Fig. 12 is a sectional view taken on the line 12—12 of Fig. 10.

Figs. 13–16 illustrate a third form of my invention, in which

Fig. 13 shows the package in the process of assembly with the tab member about to be applied,

Fig. 14 shows the package in process of assembly after the application of the tab member,

Fig. 15 shows the completed package, and

Fig. 16 is a sectional view showing the relation of the tab member to the wrapping sheets before the cover wrapper is applied, the ultimate position of the tab member being shown in dotted lines.

Referring in particular to the first form of my invention, the package is generally made of sheets, like the present day standard cigarette package, and comprises an inner wrapper 20 which will generally be a thin sheet of white paper, and an intermediate wrapper 22 preferably, but not necessarily, of thin metal foil, an outer wrapper 24 which may bear the printed matter, and a cover wrapper 25 which preferably is a sheet of transparent cellulose material, or the like. The portion 21, of the surface which in the assembly will be the outer surface, of inner wrapper 20 is stamped with glue and the sheets 20 and 22 are then placed together in registry. The word "glue" is used generically throughout to indicate any suitable adhesive. Of course additional glue may be applied between other portions of these two sheets if desired. Portion 23 of the intermediate wrapper 22 is also stamped with glue and the combined wrappers are folded around a group of cigarettes, for example, to form front, rear and side walls, with opposite edges of the sheets projecting beyond the ends. The portions projecting past the bottom edge are folded in and sealed, and the top end is treated as hereafter described. In wrapping the sheets about the contents the glued area 23 is to the outside, and the folds are made down and in on the dotted lines of Fig. 1. Thereupon, at the stage illustrated in Fig. 3, a tab member 26, preferably of cardboard or the like, is laid upon the center flat portion of the intermediate wrapper 22. The tab member 26 is preferably shaped as a rectangle with a folding score 27 across it parallel to and near one edge. The corners at this edge are preferably tapered or rounded in somewhat. This folding score divides the tab member into body portion 28 and flap portion 29. The tab member is then placed on the center flat portion of glued surface 23 with the body portion of the tab registering therewith and adhering thereto and the flap portion of the tab jutting out past the edge of the package. The top of the package is then folded down in the usual manner and the revenue stamp affixed as usual. It will be noted that thus the portions of the wrapper which are folded over the tab are glued thereto, and that where the one side overlies the other, they are glued together. As an alternative the glue could be applied to both sides of the tab member rather than to the surface 23. The package is now complete except for the cover wrapper 25 which is wrapped on in much the usual manner, the wrapping serving to bend down the flap portion 29 on tab 26, the tab member preserving some resiliency so that the flap portion tends to stand out except as restrained by the cover wrapper.

Both wrapper 20 and wrapper 22 have scor-

ings, 20*a* and 22*a*, about their glued areas 21 and 23. These scorings are preferably formed by pressing the wrappers so as to form lines of stretched, weakened dots or bars, which however are not broken open or punched out. Thus the package is left air-tight and yet a guide is provided for an easy neat tear along a predetermined line. It is to be understood throughout that all of the scorings are optional, and all of them, none of them, or some but not all of them may be used within the spirit of this invention. It is found, however, that their presence helps to achieve the desired result. Furthermore, some or all of the scorings can be in the form of a line of complete perforations.

The cover wrapper 25 is likewise scored near two of its corners as indicated by lines 25*a* and 25*b*. These two corners come together over the portion of the package where the tab member is located when the cover wrapper is folded and applied in the conventional manner, the fold lines in Fig. 2 being indicated by dotted lines. It will be understood that the overlapping edges of this outer wrapper are glued or otherwise caused to adhere together in conventional manner. The scorings 25*a* and 25*b* are preferably in the form of incomplete perforations, the cover being pressed and stretched but not broken, in a line of successive dots or bars. The score lines are so located on the wrapper that when the package is completed and then opened, the tear along the score lines will remove a small rectangular portion of the top of the package at one corner and also the top fraction of an inch of the sides of the cover wrapper. This enhances the neatness of the package after it is opened, since the cover wrapper as conventionally formed has glued joints along both narrow sides of the package, whereas the inner and intermediate wrappers conventionally have glued joints along only one vertical face of the package, which latter joints I preferably place at the opposite side from the tab member. The cover wrapper is liable to come unglued if its edges extend all the way to the top of the package after the package has been opened, so I locate its score lines a short distance below the top edge of the finished package.

It will be apparent that the flap portion of the tab, which is of material thickness, will form a slight bulge in the package at the upper edge, and the cover wrapper immediately below this flap portion will be bridging across a relatively unsupported space. Thus the user can press with his finger nail against the cover wrapper below the flap portion of the tab and push upwardly. This will serve to break the cover wrapper along its line of scoring, whereupon the user can easily grasp the tab by its flap portion and tear off at once the tab and the overlying and underlying scored portions of all three wrappers. The fact that the tab extends to just under the revenue stamp not only assures that the revenue stamp will be destroyed when the package is opened, but also gives a neater tear in opening the package, since the revenue stamp extends as a single continuous member all the way across the top of the package.

It will be obvious that modifications similar to this form of my invention may be made, as for example, if desired the glued areas 21 and 23 may be divided into two parts, one at each corner of this same edge of the wrappers, whereupon the glued-together portion on which the tab is applied will come at the opposite side of the package (at the back as viewed in Fig. 3) where the wrapper sheets are lapped over and joined. Furthermore, it is entirely possible to fold any one or more of the inner, intermediate and cover wrappers in either of the two ways shown, viz., where the longer edges of the wrapper sheet are at the top and at the bottom of the completed package, which is the way that wrappers 20 and 22 are shown here, or so that the long edges of the wrapper will run across the bottom and up the two side edges of the finished package, which is the way that wrapper 25 is shown here.

Moreover, the form of tab may be varied, as for example it may be given the form shown in Fig. 7. In this embodiment the tab has two scored lines forming a double flap portion which is bent under, as seen at 29*a*, whereby a higher ridge is formed under the outer wrapper and it is easier to start the tear for opening the package.

In the second form of my invention, illustrated in Figs. 8–12, the inner and intermediate wrappers need not have any glue applied directly to them for carrying out this invention. 60 designates the inner wrapper. The intermediate wrapper 70 is provided with a cut or punched out slot 71 extending in the finished wrapper across the upper edge of a side face of the package substantially at the folded line. A tab member 80 has a scored line 81 dividing it into a body portion 82 and a flap portion 83. Both the upper and lower faces of the body part 82 are coated with glue, a corner of the tab being shown in Fig. 8 as curled up to show the glue on the under face as well as the upper face.

After the inner wrapper 60, the intermediate wrapper 70, and the outer wrapper 75 have been assembled to the form seen in Fig. 8, the tab 80 is inserted between the inner and intermediate wrappers with its glue-coated body part 82 lying between the two wrappers and adhering to both of them when they are folded over, and its flap portion extending out through the slot 71. Thereupon the closing of the package is completed in the normal way, the revenue stamp is affixed, and the cover wrapper 90 is applied.

The various wrappers are scored in the same manner as in the first form, except that where the slot 71 is cut there is, of course, no need for any scoring. The package is opened in the same manner as in the first form. As is seen in Fig. 12 the tab is glued to the wrappers 60 and 70 and when torn off it will tear with it the main rectangular parts 62 and 72, and the neighboring portions 63 and 73 will tear off with them along the score lines 60*a* and 70*a*. This form has the advantage that only the tab need have glue applied to it.

Various modifications of this form are possible as in the case of the first form.

In the third form, shown in Figs. 13–16, both the inner wrapper 100 and the intermediate wrapper 110 have slots 101 and 111 extending across the upper corner of a narrow face of the package. Tab member 120 having scored line 121 dividing it into body portion 122 and flap portion 123 is coated with glue on the upper face only of the body portion 122. This flap lies directly over the cigarettes with its adhesive coated face directed up and the flap portion extending out through the slots 101 and 111. The wrappers 100 and 110 are then folded down over the tab and the inner wrapper 100 adheres thereto. The package is then completed in the same manner as in the foregoing forms by the application

of the revenue stamp and the wrapping on of cover wrapper **130**, and when opened will tear off neatly, inasmuch as the tab is glued to the inner wrapper which is generally of paper, and the intermediate wrapper of metal foil tears easily, and all three wrappers are preferably scored at **100***a*, **110***a*, and **130***a*, in the same manner as described for the other forms, to guide the lines of tearing.

Features in the second and third forms which are not particularly described are preferably like the corresponding features of the first form.

While I have illustrated certain preferred embodiments of my invention, it will be realized that modifications and variations from this particular showing may be made without departing from the spirit of my invention, and hence I wish to be limited only by the scope of the appended claims.

I claim:

1. In a package, a sheet folded around to form front, back, and side walls, and projecting past an end, a slot in the sheet across one side at the foot of the projecting portion, a tab member having an upper glued surface inserted partially through said slot leaving a flap portion projecting outside, the parts of the sheet which project past the end being folded down over the end, and a revenue stamp applied transversely over the said end of the package, the inner end of said tab extending to under the edge of the revenue stamp, said tab body being substantially rectangular and of material stronger than that of the sheet and of approximately the full width of the side wall, its glued surface adhesively securing it to the sheet for the full width of the tab body and over substantially its entire surface.

2. Device of claim 1 in which the sheet is provided with weakened tear-guide lines substantially coinciding with the inner end and the sides of the tab member.

3. Device of claim 1 in which a cover wrapper encases the package, holding the flap portion of the tab down against a package surface, said cover wrapper having imperforate weakened tear-guide lines substantially coinciding with the ends of the tab member and generally coinciding with its sides.

4. Device of claim 1 in which a second sheet is folded inside the first sheet and the tab member is inserted, through the slot in the first sheet, between the two sheets, and is glued to both sheets.

5. Device of claim 1 in which a second sheet is folded inside the first sheet and the tab member is inserted, through the slot in the first sheet, between the two sheets, and is glued to both sheets, and a cover wrapper encases the package, holding the flap portion of the tab down against a package surface, said cover wrapper having imperforate weakened tear-guide lines substantially coinciding with the ends of the tab member and generally coinciding with its sides.

6. A package comprising a sheet wrapped around the front and rear faces and the sides and projecting past an end and folded thereover, a stamp applied over the folded over end portions, the projecting sheet portions adjacent the front and rear walls being folded over above the projecting portion adjacent one side wall, and a substantially rectangular tab member of material stronger than that of the sheet and of approximately the full width of the side wall adhesively secured, for its full width and over substantially its entire surface, to the projecting portion adjacent the side wall, and extending to under the stamp, the outer end of said tab member extending as a flap portion, without adhesive attachment, a short distance beyond the top side edge of the package for ready grasping.

7. A package comprising a sheet wrapped around the front and rear faces and the sides and projecting past an end and folded thereover, the projecting sheet portions adjacent the front and rear walls being folded over above the projecting portion adjacent one side wall, and a substantially rectangular tab member of material stronger than that of the sheet and of approximately the full width of the side wall adhesively secured, for its full width and over substantially its entire surface, to the projecting portion adjacent the side wall, the outer end of said tab member extending as a flap portion, without adhesive attachment, a short distance beyond the top side edge of the package for ready grasping, said tab member being relatively stiff and thick, and a cover wrapper encasing the package, bending the flap portion over against the package side wall.

8. Device of claim 7 in which the projecting flap portion of said tab member is doubled back and up under itself.

9. Device of claim 7 in which the cover wrapper is provided with a weakened tear-guide line adjacent the outer edge of the flap.

10. Device of claim 7 in which the projecting flap portion of said tab member is doubled back and up under itself and the cover wrapper is provided with a weakened tear-guide line adjacent the outer edge of the flap.

11. Device of claim 7 in which the cover wrapper is provided with a weakened tear-guide line adjacent the outer edge of the flap and weakened tear-guide lines leading therefrom generally coinciding in the closed package with the outline of the tab member.

12. Device of claim 6 in which said tab is adhesively secured to the upper surface of that sheet portion which is folded over at the end, and adhesively attached to the under surfaces of the parts of the sheet folded over from the front and back which overlie the tab member.

13. Device of claim 7 in which said tab is adhesively secured to the upper surface of that sheet portion which is folded over at the end, and adhesively attached to the under surfaces of the parts of the sheet folded over from the front and back which overlie the tab member.

RAYMOND L. WISE.