

Aug. 9, 1938.

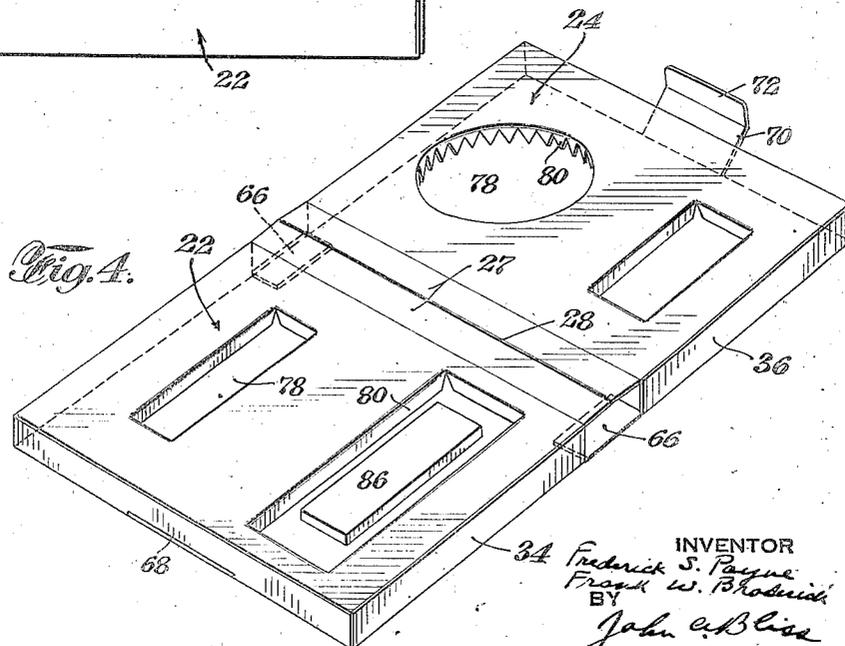
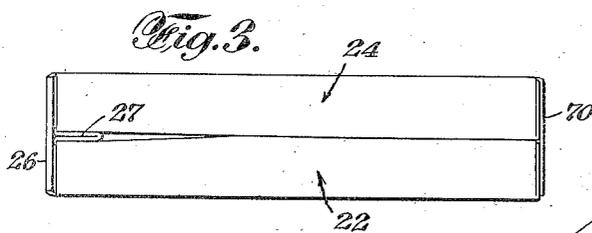
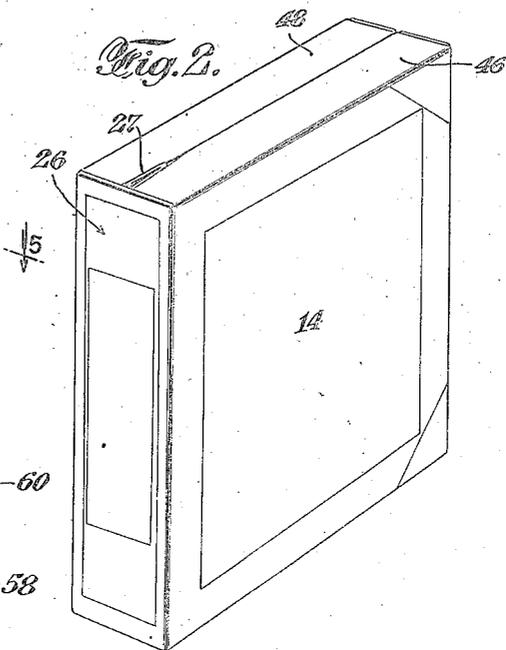
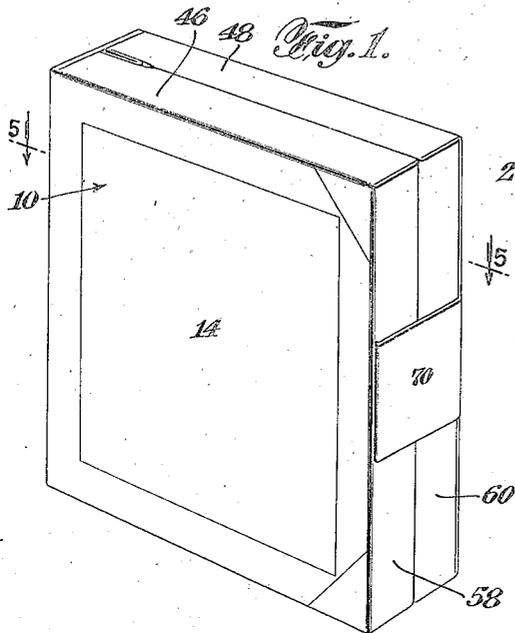
F. S. PAYNE ET AL

2,126,407

BOOK DISPLAY BOX

Filed June 20, 1936

3 Sheets-Sheet 1



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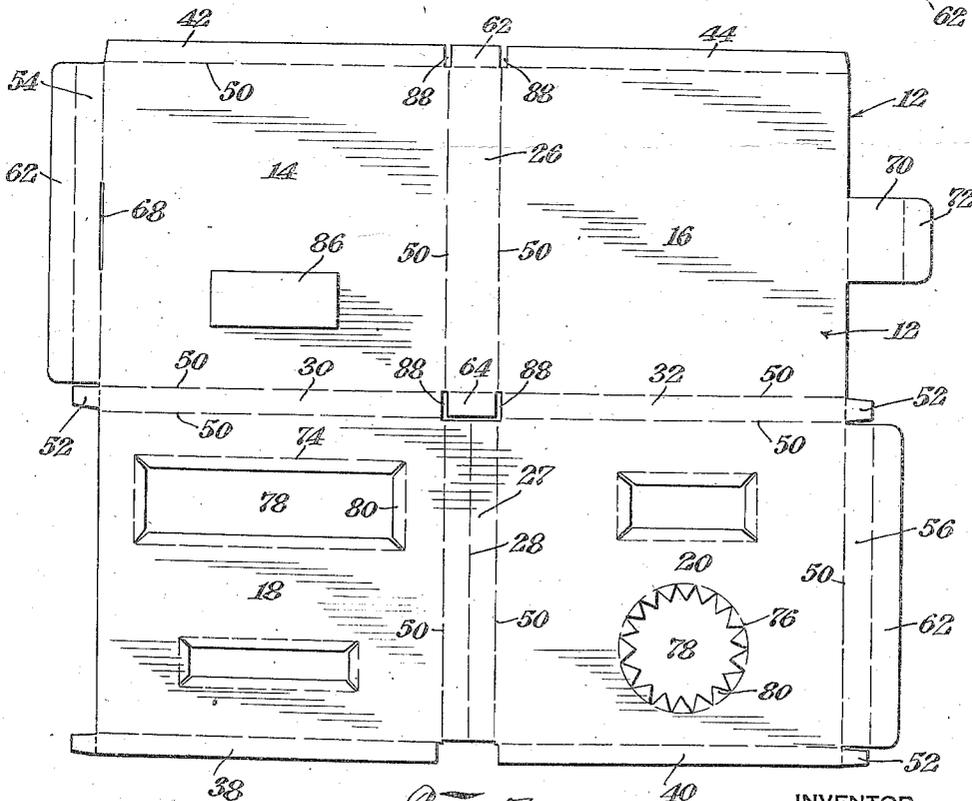
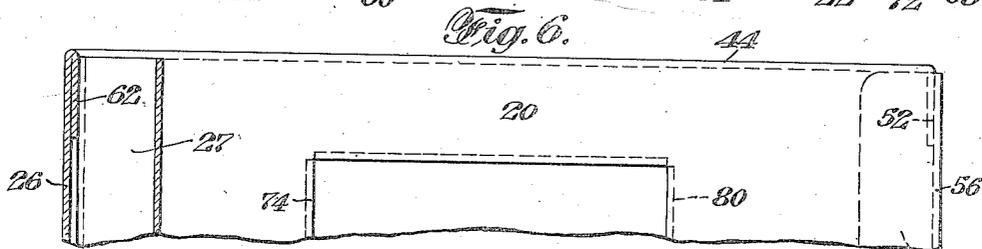
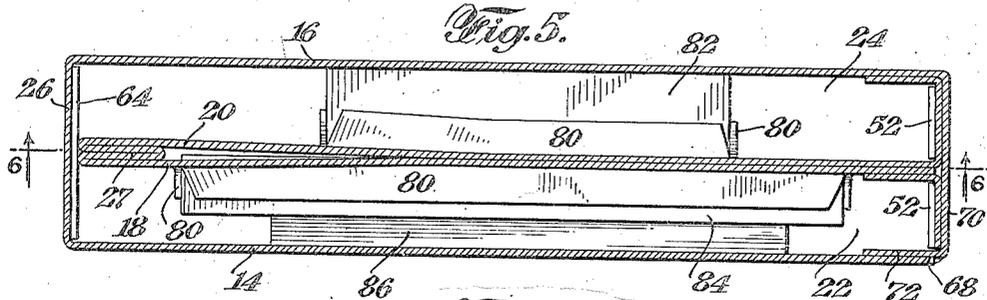
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2,126,407

BOOK DISPLAY BOX

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3 Sheets-Sheet 2



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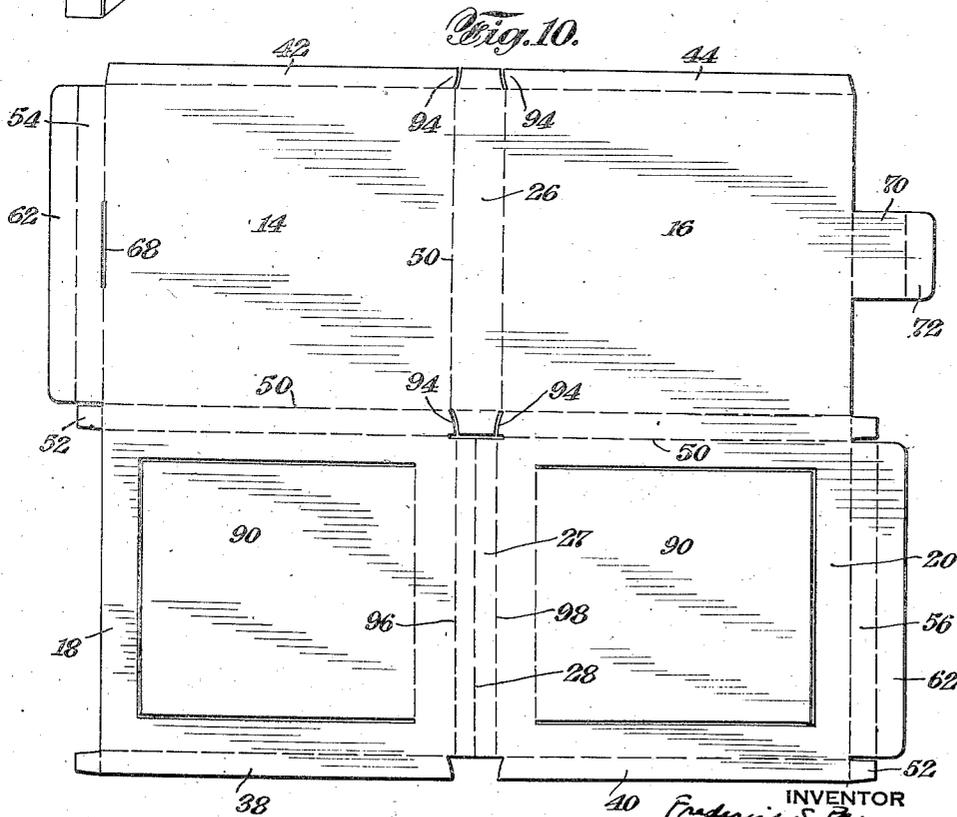
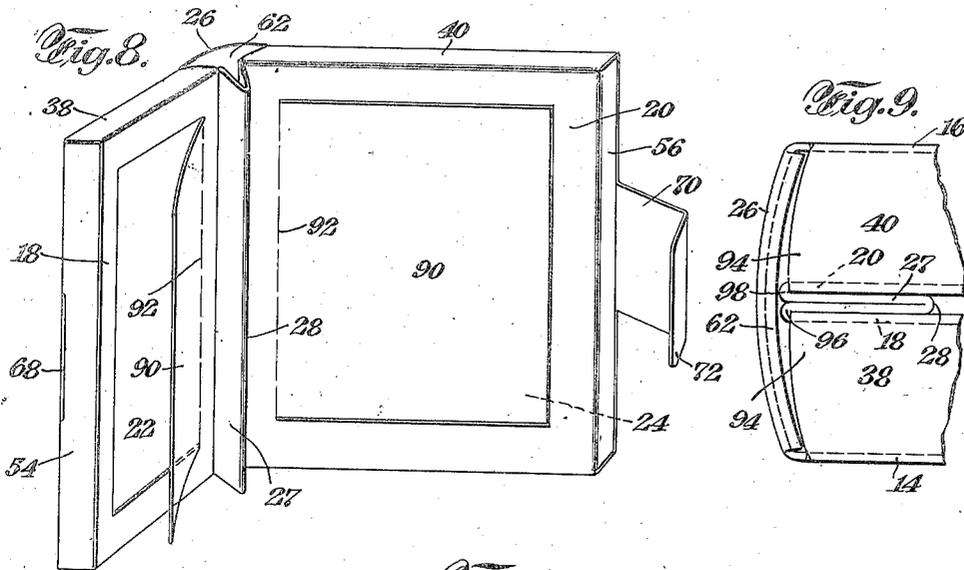
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2,126,407

BOOK DISPLAY BOX

Filed June 20, 1936

3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE

2,126,407

BOOK DISPLAY BOX

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Application June 20, 1936, Serial No. 86,286

7 Claims. (Cl. 206—44)

This invention relates to an improved type of merchandise container which simulates the appearance of a book and which may be opened like a book into two complementary compartments. The container when opened advantageously displays merchandise and when closed may be placed with its lower edge upon shelves with a binder panel exposed, similar to the manner in which books are placed upon library shelves.

One object of our invention is the provision of a container or box of a book type, which container or box has cover portions similar to the cover portions of a book, which are hinged to a back or binder portion similar to a book back.

Another object of our invention is the provision of a book box divided into two complementary compartments, such compartments having means for retaining merchandise; the book box being openable like a book so that such merchandise may be displayed; and to provide means integral with said box adapted to maintain the same in closed position.

Another object of our invention is to form such a book box out of a single blank of material and provide stop means integral with said container which will prevent the hinged cover portions from swinging in an arc greater than 180°.

A still further object of our invention is the provision of means adapted to tension against the back or binder portion of the book box to give such binder portion a rounded appearance when the book box is closed.

The accompanying drawings illustrate diagrammatically ways in which the present invention may be practiced but it is to be expressly understood that the drawings are for purposes of illustration only and are not to be construed as limiting the invention or the apparatus which may be used therewith.

In the drawings—

Fig. 1 is a perspective view of a book box embodying our invention, showing the front thereof and the top and front edge portions;

Fig. 2 is a perspective view of the book box illustrated in Fig. 1 showing the front thereof, the top edge and rear or binder panel;

Fig. 3 is a plan view of the book box shown in Figs. 1 and 2;

Fig. 4 is a perspective view of the book box illustrated in Fig. 1, in open position and empty;

Fig. 5 is a section taken substantially on the line 5—5 of Fig. 1 showing the book box in closed position and illustrating packaged merchandise packed therein;

Fig. 6 is a section taken substantially on the line 6—6 of Fig. 5;

Fig. 7 illustrates an integral blank adapted for forming the book box shown in Figs. 1—6;

Fig. 8 is a perspective view of a modified form of book box illustrating openable pages for the compartments, and means for creating a bow or outward curve in the binder panel of the book box;

Fig. 9 is a partial transverse section illustrating the binder panel and adjacent parts of the book box shown in Fig. 8 when the latter is in closed position; and

Fig. 10 is an illustration of an integral blank adapted to form the modified type of book box embodying our invention shown in Figs. 8 and 9.

Like reference characters denote corresponding parts in all of the figures of the drawings.

Referring to Figs. 1—7 a book box 10 is formed from an integral blank 12 comprised of light cardboard or heavy paper stock, or like material, which may be covered with metal foil if desired. As indicated, the blank 12 is stamped and die scored so that large panels 14, 16, 18, and 20 of substantially equal size are formed and so that a book box comprising two similar compartments 22 and 24 adapted to be packed with merchandise may be obtained. Panels 14 and 16 form the front cover and rear cover respectively of the book box 10 and are hingedly joined to a binder panel 26. Panels 18 and 20 form the inner sides of the compartments 22 and 24 and are hingedly joined to a collapsible stop panel 27, which latter is collapsible on the score lines 28. Binder panel 26 may be equal in size to stop panel 27. As seen best in Fig. 7, panels 18 and 20 are also joined to panels 14 and 16 by elongated strips 30 and 32 which latter form bottom end walls 34 and 36 (Fig. 4) respectively of the compartments. Elongated strips 38 and 40 on panels 18 and 20 conform in size and may be glued over strips 42 and 44 on panels 14 and 16 to form top end walls 46 and 48 of compartments 22 and 24, when the box is assembled. The panels and strips are separated one from the other by score lines generally identified by reference character 50, which score lines give sharp edges when the stock is bent at the panel edges. It will be noted that all score lines 50 are in either parallel or perpendicular relation one to another. Strips 30, 32, 38 and 40 are provided with tabs 52. Panel 14 is provided with strip 54 and panel 20 is provided with strip 56, which form side walls 58 and 60 (Fig. 1) of the book box. Strips 54 and 56 are provided with foldable flaps 62 which latter, when

the compartments are formed by folding on the score lines and by pasting strips 38 and 40 upon strips 42 and 44 respectively, may be tucked over tabs 52 into the interior of the compartments thus giving a neat appearance and stiffening the edge wall construction of the compartments.

Binder panel 26 is provided with extension flaps 62 and 64 which latter, when the box is assembled, may be doubled back against binder panel 26 giving a double edge 66 (Fig. 4) to the top and bottom of the binder panel; these double edges simulate the appearance of the double edges of the ordinary book back or binder and also if the paper stock is covered with foil or specially surfaced, prevent the exposure of raw edges of stock. The strip 54 upon panel 14 is provided with a slot 68 and panel 16 is provided with tab 70 having a flap portion 72 which latter fits slot 68 and operates as a retaining means to retain the compartments 22 and 24 together in closed position.

Panels 18 and 20 may have score lines identified as 74 and 76 contoured similar to the shapes and sizes of objects desired to be placed within compartments 22 and 24. Within the inner limits of such scores 76 are cut-out portions 78 of a size conforming to but smaller than the objects to be placed in the box and such cut-out portions are margined by yieldable flaps 80. Such flexible flaps 80 bear against the side walls of a package of merchandise 82 (Fig. 5) and tend to retain the same in position. If the package of merchandise such as 84, indicated in Fig. 5, is not as deep as its compartment a platform 86 may be placed thereunder so the top surface of the package 84 may be in a generally similar plane as panel 18.

It is advantageous to slightly notch, as at 88, strips 30, 32, 38, 40, 42 and 44 at their ends adjacent binder panel 26, so that such notched ends may give clearance to and not interfere with fold flaps 64 when the box is in closed position.

Figs. 8, 9 and 10 illustrate a modified embodiment of our invention. In these figures panels 18 and 20 may be cut so that pages 90 are formed hinged to the panels at score lines 92, thus further simulating the appearance of the actual pages of a book and which may be printed if desired. Merchandise placed within the confines of compartments 22 and 24 may be protected by closing pages 90, or may be inspected or displayed by swinging the pages open. Also in these figures we provide means adapted to curve or bow binder panel 26 outwardly so as to give the rounded appearance of a book back: this effect is obtained in part by curved projections identified as 94 which extend outwardly from the end portions adjacent binder panel 26 and collapsible stop panel 27, of strips 30, 32, 38, 40, 42 and 44. As indicated in Fig. 9 such curved projections 94 are of a shape so that they may tension against binder panel 26 to maintain the same in a bowed shape. As projections 94 contact the binder panel 26 only at the top and bottom thereof it is possible to supplement their effect by making panels 18 and 20 slightly wider than panels 14 and 16 and stop panel 27 slightly narrower than binder panel 26, with the result that edge portions 96 and 98 (Fig. 10) and panels 18 and 20 may, when the book box is closed, bear against binder panel 26.

Stop panel 27 is hingedly joined to panels 18 and 20 at the score lines 96 and 98. The stop panel is provided with a longitudinal score line 28 in its center portion. When the book box is closed, the foldable stop panel folds together along the said score line 28, and when the book box is

opened the stop panel limits the swinging of either front or rear cover to an arc of approximately 180° thus permitting the box to be handled by one compartment only with the other compartment assuming approximately the same plane.

The length of stop panel 27 as shown is equivalent to the width of panels 18 and 20. When the book box is closed the double thickness of the stock in the folded stop panel acts as a reinforcement to the side walls of compartments 22 and 24, thus tending to prevent the latter's accidental collapse due to pressures applied to the side walls adjacent the collapsible stop panel.

It will be obvious to those skilled in the art that various other modifications and embodiments of the invention may be utilized, and therefore the invention is not to be limited to what is described in the specification and shown in the drawings but only as indicated in the appended claims.

We claim—

1. A book box adapted to contain merchandise for shipping and display purposes, comprising two equal compartments each having outer and inner parallel and superposed panels of generally equal size, and side and end wall portions, an elongated binder panel similar to a book binder hingedly connected on one longitudinal edge to one of said outer panels, and on the other longitudinal edge to the other of said outer panels, and an elongated stop panel foldable longitudinally and of generally similar size and shape as said binder panel and comparably connected to said inner panels, whereby when the book box is open to one hundred and eighty degrees, the stop panel operates as a stop and is in parallel and superposed relation to said binder panel.

2. A book box made from a single piece of stock and having all parts connected one to another adapted to contain merchandise for shipping and display purposes and to open and close like a book comprising a binder panel of shape and size similar to a book binder, two compartments of substantially equal size hingedly and swingably connected to said binder panel and a collapsible and longitudinally foldable stop panel hingedly connected to said compartments at an inner side edge thereof, said stop panel being of generally similar size as said binder panel and when the book box is opened to one hundred and eighty degrees lying in a single plane and in superposed and parallel relation to said binder panel.

3. A book box as defined in claim 2 which further includes extension flaps upon the ends of said binder panel folded within the limits of the box so that raw edges of stock are not seen at the binder panel ends and so that a book binder is simulated.

4. A book box as defined in claim 2 wherein the inside surfaces of said two compartments are slightly larger than the outside surfaces and wherein said stop panel is slightly smaller than said binder panel, whereby when the book box is closed an inner edge portion of said compartments bears against said binder panel and tends to bow the same outwardly.

5. A book box made from a single piece of stock and having all parts connected one to another, adapted for display purposes and to open and close like a book comprising a binder panel in shape and size similar to a book binder, two compartments of approximately equal size of rectangular shape having inner and outer surfaces, side walls and an end wall, said compartments being

hingedly and swingably connected to said binder panel, a collapsible stop panel hingedly connected to said compartments at an inner side edge thereof, and curved projections upon the side walls of said compartments adjacent said binder panel so positioned that when the book box is closed said curved projections tension against said binder panel at the ends thereof and tend to bow the same in an outward curve.

6. An integral blank of a type adapted to form a book box having two compartments, a binder panel and a collapsible stop panel, comprising four substantially equal large panels arranged in substantially a rectangle and each occupying a corner portion of the rectangle so as to provide two upper and two lower large panels adapted to form the inner and outer sides of said compartments, a rectangularly shaped elongated binder panel positioned between the upper two of said large panels with score lines therebetween and extending approximately from one edge of the blank to the center thereof, a stop panel of substantially equal size as said binder panel and comparably positioned between the lower two of said large panels with score lines therebetween

and having a longitudinal score line whereby to make said stop panel collapsible laterally, and elongated strips adjacent the sides of said four large panels of sufficient number and in proper position to form the sides of said two compartments, two of said large panels being adapted to be swung over the other two panels and with said side strips to form said book box.

7. A book box adapted to contain merchandise for shipping and display purposes, comprising two equal compartments each having outer and inner parallel and superposed panels of generally equal size, and connecting wall portions, an elongated binder panel similar to a book binder hingedly connected on one longitudinal edge to one of said outer panels, and on the other longitudinal edge to the other of said outer panels, and an elongated stop panel foldable longitudinally and of generally similar size and shape as said binder panel and comparably connected to said inner panels, whereby when the book box is opened the stop panel operates as a stop and is in parallel and superposed relation to said binder panel.

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