Aug. 17, 1943. I. WEINGER 2,327,324

DISPLAY ALBUM

Filed Oct. 10, 1942 3 Sheets-Sheet 1

Fig. 1

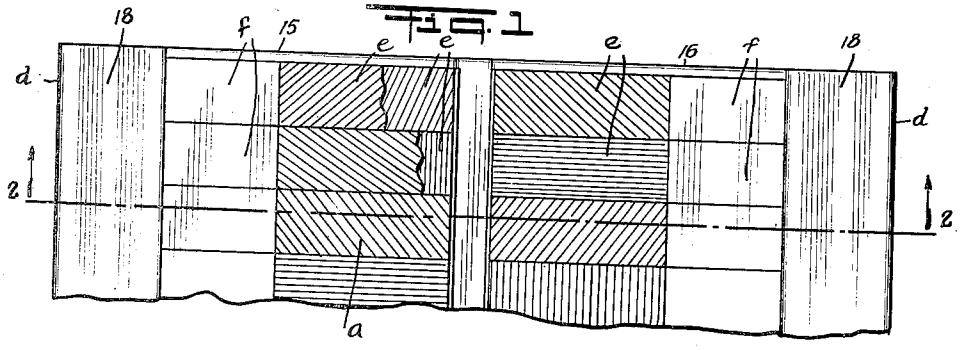


Fig. 2

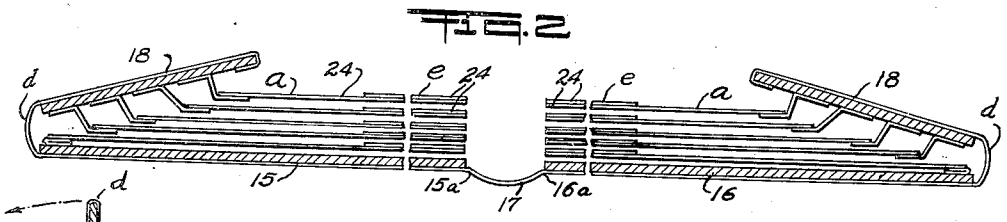


Fig. 3

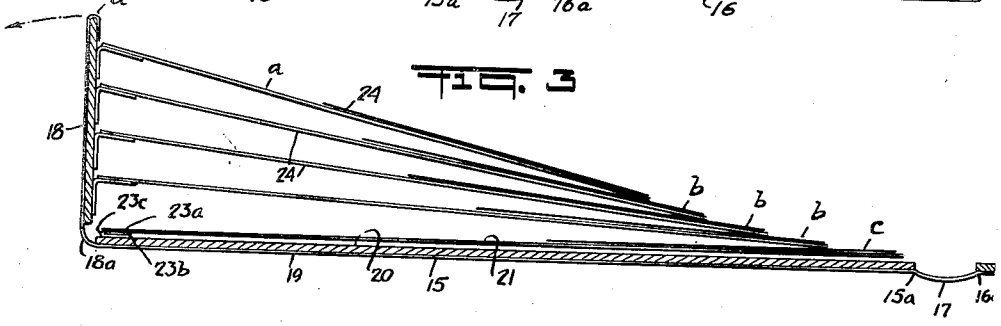
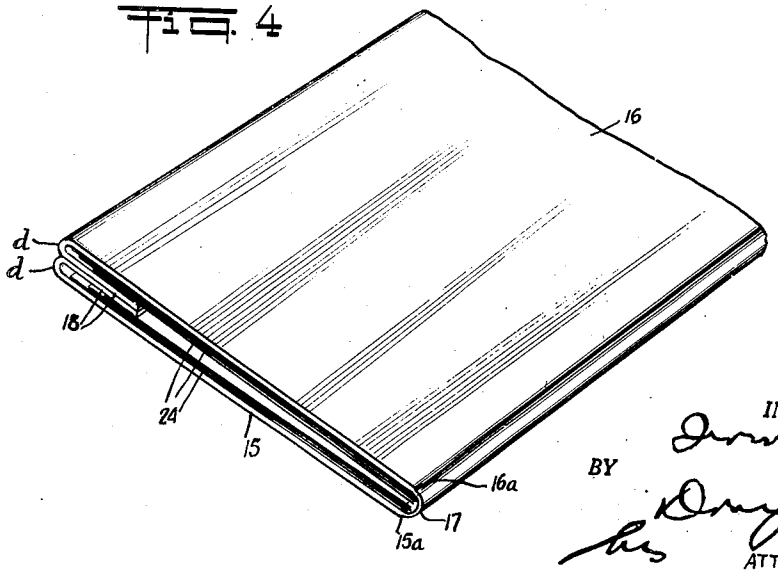


Fig. 4



INVENTOR.

Irving Weinger

BY

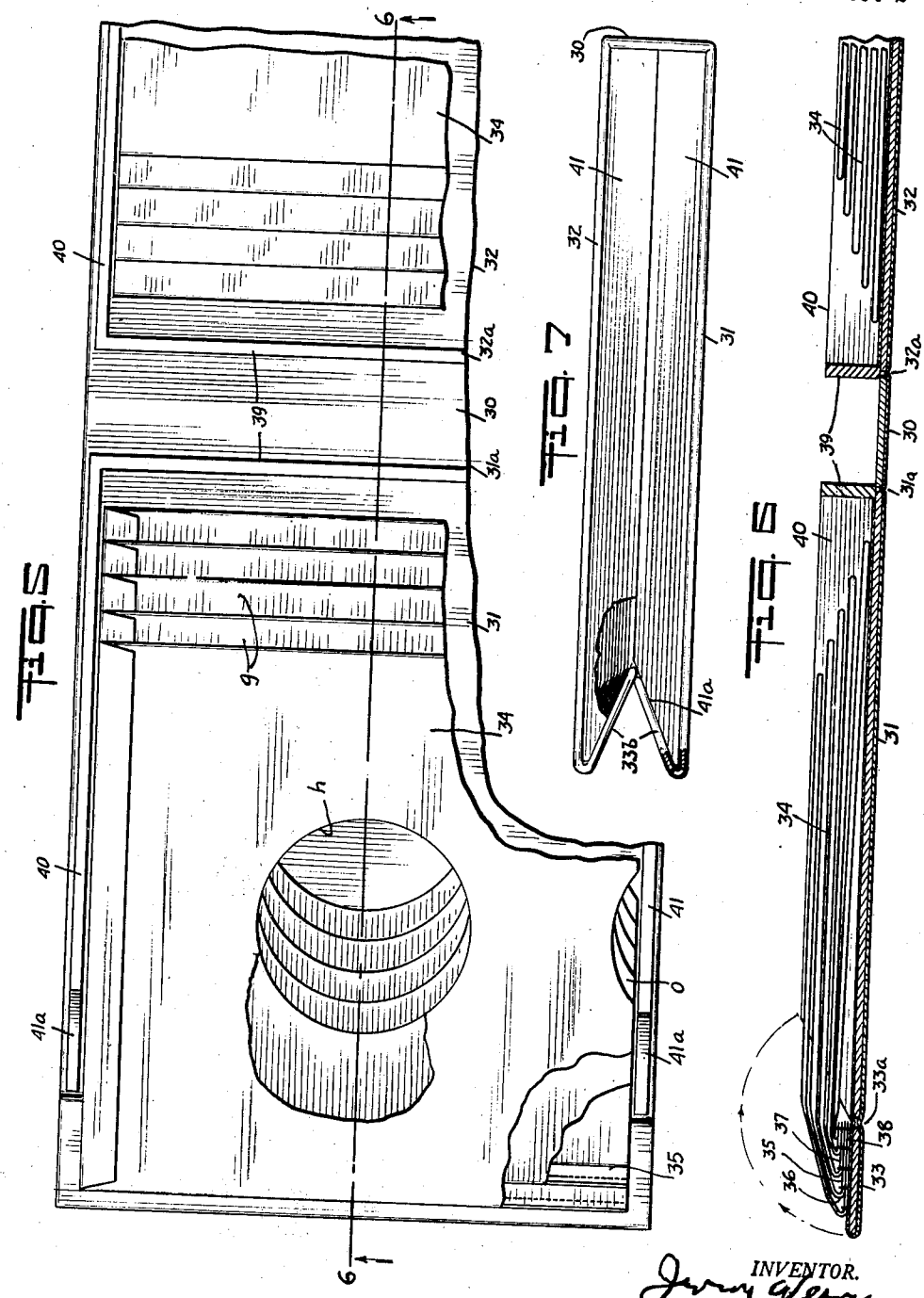
Irving Weinger

ATTORNEY

Aug. 17, 1943. I. WEINGER 2,327,324

DISPLAY ALBUM

Filed Oct. 10, 1942 3 Sheets-Sheet 2



INVENTOR.

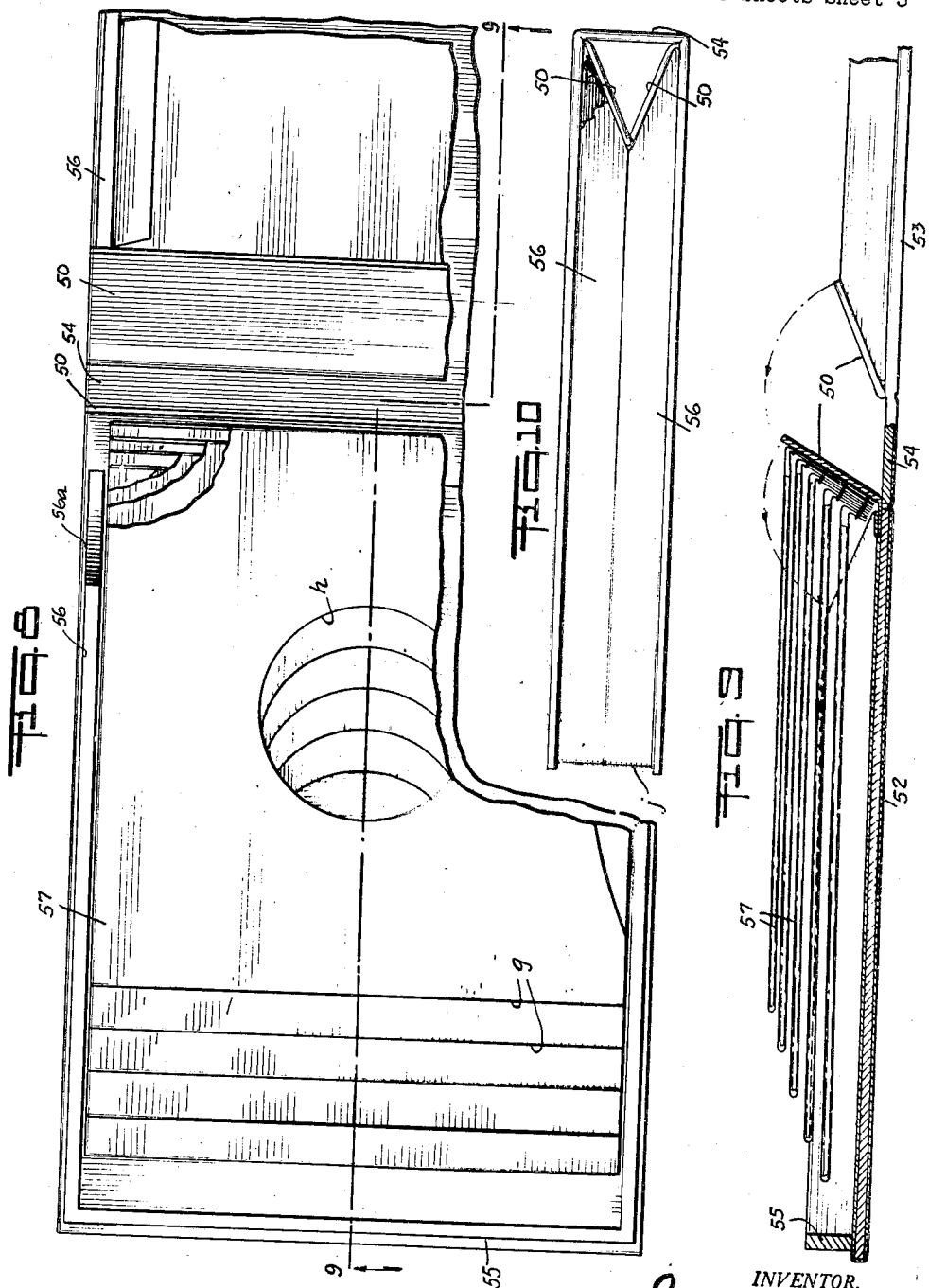
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Aug. 17, 1943. I. WEINGER 2,327,324

DISPLAY ALBUM

Filed Oct. 10, 1942 3 Sheets-Sheet 3



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Patented Aug. 17, 1943 2,327,324

UNITED STATES PATENT OFFICE

2,327,324

DISPLAY ALBUM

Irving Weinger, New York, N. Y., assignor to J. Widder & Co., New York, N. Y., a copartnership comprised of Samuel Widder and William Widder

Application October 10, 1942, Serial No. 461,615

12 Claims. (Cl. 129—15)

This invention relates to book constructions and is more particularly directed to a dual purpose construction which may be utilized in providing a book adapted for the display of color card or samples, in the distribution of textiles and other merchandise, or to form an album for phonograph records and similar disc-like articles for use in merchandising such records and in the home.

The primary object of this invention is to provide a book or album wherein a series of leaves hinged to the shell thereof may be simultaneously disposed in a flat position, so that color cards, textile swatches, indicia or other material or matter carried by or imprinted upon the respective leaves, may be viewed at the same time, thereby permitting the observer to compare various color cards or other items, on different leaves, in association, without turning the leaves or folding them, as is necessary in present display books, to facilitate the selection of one or another thereof.

Another important object of this invention is to provide a book construction in which the leaves may be single sheets or blanks of paper or other suitable material, or may take the form of envelopes in which flat or disc-like articles to be displayed or exposed for view in the opening of the book, may be entered, the particular type of leaf incorporated in the make-up of the book being dependent upon the purpose for which the book construction is to be used.

More specifically, it is the objective of this invention to provide a method of constructing a book embodying two sets of a series of leaves hingedly supported from the shell structure of the book, on either sides of the backbone thereof, to permit of the conjoint movement of all of the leaves of either set to a position to dispose marginal sections thereof in staggered flat association, whereby all of such marginal sections of the leaves of such set may be simultaneously viewed.

Other objects and advantages flowing from the practicing of this invention will become manifest as the description proceeds.

In the accompanying drawings I have shown preferred embodiments of my improved book construction, to illustrate its application to certain different purposes. It will be understood, however, that my construction is susceptible of use for many other purposes, to which it may be readily rendered applicable, by the use of leaves other than the single sheet leaf or the envelope type of leaf herein shown, as will become clearly evident from the following detailed description.

In the drawings:

Figure 1 is a top plan view of a part of a book conforming to my construction, with the shell in opened condition and the leaves superposed on the opposite cover sections thereof in superimposed relation.

Figure 2 is a cross-section on the line 2—2 of Figure 1.

Figure 3 is a transverse sectional view of the structure of the preceding figures, showing the backbone and one cover section of the shell and the leaves carried by such cover section in process of movement to their ultimate position, in which all of the leaves may be simultaneously viewed.

Figure 4 is a view in perspective of a part of the book of Figure 1, in closed condition.

Figure 5 is a top plan view of a so-called record album, produced in conformity with my invention, in open condition.

Figure 6 is a longitudinal section on the line 6—6 of Figure 5.

Figure 7 is an end elevation of the book of Figures 5 and 6, in closed condition.

Figure 8 is a top plan view of a modified form of record album, embodying my invention, in open condition.

Figure 9 is a longitudinal sectional view on the line 9—9 of Figure 8; and

Figure 10 is an end elevation of the book of Figures 8 and 9 in closed condition.

Referring now to the drawings in detail, in which like characters of reference are employed to designate similar parts in the several views, and more particularly to the book construction shown in Figures 1 to 4, inclusive, the structure embodies a shell comprising the usual stiff or flexible cover sections 15 and 16 and the intermediate connecting flexible backbone 17, the cover sections being arcuately movable relative to the backbone on the hinge lines 15a and 16a.

As will be noted, especially from Figure 3, each cover section includes a flap-like extension at its outer or free end, which functions as a mounting for a series of leaves forming a set. Since the two flaps are identical structurally and they function similarly in the book construction, the description of one and the manner in which it functions will suffice for the purposes of this disclosure.

The flap 18, for example, is of a length corresponding to the cover section 15 with which it is associated, being hinged to the outer end thereof, for relative movement on the line 18a.

This flap may be of the same composition as the cover section of which it is a part and may be connected thereto for hinged movement in any suitable manner, as by a flexible strip of material adhesively secured to the adjacent edges of the cover section and flap which is concealed by the overlying binding 19, forming the outer skin of the shell, and the inner lining 20.

A leaf 21, which may be termed the base leaf, is hinged to the inner defining surface of the hinge line 18a, by a flexible strip 22, which is creased or folded longitudinally to provide a section 22a cemented to the leaf along its edge and a section 22b which is adhesively anchored to said hinge surface, the leaf 21 being of a length approximating that of the cover section 15 and of substantially the same width, its free end, when it is disposed flat upon the cover section, being contiguous to the hinge line 15a connecting the cover section to the backbone 17.

A plurality of leaves of graduated widths are hinged to the inner surface of the flap 18 by means of flexible strips, each of which is cemented to the inner surface of a leaf 24 adjacent the edge thereof, as at 23a, and to the flap, as indicated at 23b, the strips being creased intermediate their two attaching surfaces to form a hinge line 23c. As will be noted, the aforesaid attaching strips are so disposed on the flap surface that when the leaves are bonded therewith, the latter will be supported in laterally spaced relation, it being evident that each of the leaves is movable relative to its supporting flap and the juxtaposed cover section 15 on the aforesaid hinge line 23c of its anchoring strip.

The leaf 24, hinged adjacent the outer end of the flap 18, is the narrowest of the flap-supported leaves, the width of the leaves mounted inwardly of such outer leaf progressively increasing, so that when the flap 18 is rotated outwardly to a position in alinement with the cover section 15, the flap-supported leaves will lie flat in superimposed relation, to wholly expose the uppermost leaf, indicated at a, and marginal portions of each of the remaining flap-supported leaves, as indicated at b, the width of the last of the leaves hinged to the flap being less than that of the base leaf 21, a marginal portion c of which is also exposed. As will be seen from Figure 3, the exposure of the marginal portions of the leaves beneath the topmost of the flap-supported leaves 24 begins with the initiation of the movement of the flap from the closed position shown in Figure 2, to its outermost position, when the exposure is completed as described.

Obviously, in the reverse movement of the flap to closed position, the leaves 24, because of their relative laterally spaced hinged connection with the flap and their graduated width, are moved toward the hinge line 15a connecting the cover section 15 to the backbone 17 of the shell, to lie flat in superimposed relation to the base leaf 21, with their free edges in registration with the free edge of the latter leaf, as shown in Figure 1. The closing of the book, in the movement of the cover section on the hinge line 15a, disposes the inner faces of the two flaps 18, 18a, in contact, as shown in Figure 4, with their respective sets of leaves protectively housed within the shell, it being apparent that the rounded outer edges d, presented by the in-folded flaps, provide surfaces whereby the opening of the book is facilitated.

Assuming that the book construction is to be used for displaying color cards, as may be used in merchandising textiles, each of the leaves carries a plurality of cards and printed matter relating thereto. As herein shown, the outermost leaf of the leaves supported from the flap 18 carries a series of color cards e arranged from top to bottom thereof, and extending to a point in spaced relation to the respective hinge lines of the several leaves of the set, the cards being of uniform length so that the margin f thus provided on each leaf is of a uniform width in which may be printed or stamped prices, style number or other indicia relating to the color card with which it is associated. Preferably, the color cards, as arranged on each leaf, are so disposed as to contrast with the alined color cards on other of the leaves, which, of course, facilitates the making of selections and enables the book user to quickly make a selection. Then, by holding the leaf on which the selected color card appears, the card and its associated indicia may be completely exposed by turning the leaves superimposed thereon outwardly on their hinge lines to assume a position in which their free edges are spaced outwardly of the flap, as aligned with the cover section to which the flap is hinged. Of course, if the color and data desired are on the base leaf, 21, all of the flap-supported leaves 24, are displaced as described, either as a unit or singly, as will be obvious. Preferably, the base leaf 21 and the flap-supported leaves 24 are of relatively stiff paper or light cardboard, though any suitable material may be used, the indicia or data relating to the color cards being printed on the marginal surfaces f of the respective leaves, while the color cards are glued to the leaves.

In the book construction shown in Figures 5 to 7, inclusive, the leaves take the form of envelopes, whereby my invention may be employed in providing an album or book for containing phonograph records from which the records may be dispensed in commercial distribution or in the home. Manifestly, other flat or disc-like articles may be entered in the enveloping leaves to equal advantage, as will be evident.

As in the form of the invention previously described, the album construction includes a shell having a backbone 30 and cover sections 31 and 32, hinged thereto for relative movement on the hinge lines 31a, 32a. A flap 33 is hinged to the outer edge of each cover section, as indicated at 33a, for relative arcuate movement to which is hingedly connected a series of leaves 34 in the form of phonograph record envelopes having the usual open ends o, opposite the lower of the rails 41 and the centrally located sight opening h through which the title of the contained record may be viewed.

These enveloping leaves are hinged to the flap for relative movement along their side edges, opposite to the aforesaid ends g, by the flexible strips 35 folded to form the hinge lines 36 and cemented to the envelopes and in superimposed position on the flap on either side thereof, as indicated at 37 and 38, the anchoring strips being mounted on the respective flaps to dispose their hinge lines for the connection of the envelope leaves thereto in laterally spaced relation, in the manner previously described.

Since the envelopes of each set are of the same dimensions, it will be apparent that their interconnection with the flap with which they are associated in laterally spaced relation will dispose their ends g in staggered relation, as shown in Figure 5, when the album is opened and a flap 33 is rotated on its hinge line 33a to a position outwardly of the cover section 31 in alinement

therewith. This effects the complete exposure of the envelope leaf in topmost position and renders visible the marginal portions inwardly of the ends *g* of each of the envelope leaves positioned therebeneath, it being evident that by imprinting the title of the contained record upon its enclosing envelope, the position of the desired record in the album may be instantly determined for its selective withdrawal therefrom.

In the reverse movement of the flap **33** on its hinge line **33***a*, the inner ends of the envelope leaves are alined in juxtaposition to the adjacent hinge line connecting the cover section to the backbone, similarly to the leaves hinged to the flap **18** of the structure previously described, the oppositely inclined surfaces **33***b*, presented by the flaps **33** when the album is closed, as shown in Figure 7, adding materially to the convenience of use of the album in providing ample gripping surfaces for actuating one or the other cover sections or both relative to the backbone **30** to open the shell for movement of the flaps **33** to display the record indicia on the marginal portions of the envelope leaves exposed in response to such movement.

If desired, strips of heavy fiberboard, wood, or other material of the requisite rigidity may be fixed to the respective cover sections **31**, **32**, in juxtaposition to the hinge lines **31***a*, **32***a* connecting said sections to the backbone **30**, and parallel and just inwardly of the top and bottom edges of the cover sections, as indicated at **39**, **40** and **41**, the strips **40** and **41** being chamfered at their outer ends, as at **41***a* and terminating at the flap hinge line **33***a*, the flaps being adapted to abut upon the chamfered surfaces of the opposite strips **40**, **41**, when folded inwardly for the closure of the album, as shown in Figure 7.

In the modified album construction shown in Figures 8 to 10, inclusive, the flaps **50**, to which the envelope leaves **51** are hinged, in the manner described with respect to Figures 5 to 7, are appropriately hinged to the respective cover sections **52**, **53**, adjacent the hinge lines **52***a*, **53***a*, connecting them to the backbone **54**. Thus, when one or the other of the flaps **50** is rotated toward the opposite flap, as shown in Figure 9, the ends *g* of the envelope leaves **51** are staggered, as shown in Figure 8, adjacent the rigid strip **55** at the outer edge of the cover section upon which they are disposed in superimposed relation, the chamfered edges **56***a* of the strips **56** arranged at the top and bottom edges of the cover section being disposed adjacent the hinged connection of the cover section to the backbone **54** to support the flaps **50** inwardly of the backbone when the hook is closed, as in Figure 10, the end strips **55** of the respective cover sections mating to form the outer edge of the album, as at *f* in said Figure 10, it being obvious that in this construction the album, when closed, presents a peripheral edge formed by the mated strips and the backbone **54** virtually of the same order throughout.

As will be manifest when the album of Figures 5, 6 and 7 is opened, the envelope leaves hinged to one or both of the flaps **33** may be selectively rotated to a position outwardly of the supporting flap to obtain access to a desired record for its removal from the envelope within which it is contained. Similarly, the flap-supported leaf envelopes may be selectively rotated relative to the flaps **50** to which they are hinged to withdraw a desired record from its container, the envelopes that are rotated assuming a position overlying the opposite cover section, as will be clearly apparent from Figure 9.

While I have described my book construction as it may be employed in producing display books or albums adapted for analogous purposes, it will be manifest that the same construction may be utilized in books and albums designed for numerous other uses which may embody unit or compartmental leaves or leaves in the form of containers corresponding in function to those of Figures 5 to 10.

I claim:

1. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections and a series of leaves hinged to the inner surface of each flap in laterally spaced relation, whereby the movement of the flap toward the backbone, in superposed relation to the cover section to which it is hinged, will dispose the leaves in superimposed relation upon said cover section, between the hinge connection of the cover section with the backbone and the hinge line connecting said flap to the cover section, the opposite directional movement of said flap to a position in alinement with said cover section, outwardly of its hinge line of connection therewith, disposing the leaves in superimposed relation with their hinged edges located outwardly of the hinge connection of the flap to said cover section and their free edges in staggered, laterally spaced relation to the hinge connection of the cover section to the backbone of the shell.

2. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections and a series of leaves hinged to the inner surface of each flap in laterally spaced relation, whereby the movement of the flap toward the backbone in superposed relation to the cover section to which it is hinged, will dispose the leaves in superimposed relation upon said cover section, between the hinge connection of the cover section with the backbone and the hinge line connecting said flap to the cover section, the opposite directional movement of said flap to a position in alinement with said cover section, outwardly of its hinge line of connection therewith, disposing the leaves in superimposed relation with their hinged edges located outwardly of the hinge connection of the flap to said cover section and their free edges laterally spaced from the hinge connection of said cover section to the backbone, in staggered relation one to the other, said leaves being arcuately movable on their hinge connections with said flap to a position in superimposed relation thereto, when the flap is alined with said cover section.

3. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections for relative arcuate movement from a position in superposed relation to said cover section to a position outwardly of said cover section in alinement therewith, a series of leaves and flexible means for connecting the leaves to said flap in laterally spaced relation for movement relative to said flap and with relation to one another, said leaves being conjointly movable with said flap to assume a position in superimposed relation to said cover section, when said flap is disposed in superposed relation to said cover sec-

tion, said leaves being individually movable relative to said flap, when said flap is displaced from said position in superposed relation to the cover section in an outward rotative movement of said flap on its hinge connection with said cover section.

4. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections for relative arcuate movement from a position in superposed relation to said cover section to a position outwardly of said cover section in alinement therewith, a series of leaves and flexible means for connecting the leaves to said flap in laterally spaced relation for movement relative to said flap and with relation to one another, said leaves being conjointly movable with said flap to assume a position in superimposed relation to said cover section, with their free edges in registration in juxtaposition to the hinge connection of said cover section with said backbone, when said flap is disposed in superposed relation to said cover section, said leaves being individually movable relative to said flap when the latter is displaced from an initial position in superposed relation to said cover section in the outward rotative movement of said flap.

5. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections for relative arcuate movement from a position in superposed relation to said cover section to a position outwardly of said cover section in alinement therewith, a series of leaves and flexible means for connecting the leaves to said flap in laterally spaced relation for movement relative to said flap and with relation to one another, said leaves being conjointly movable with said flap to assume a position in superimposed relation to said cover section, when said flap is disposed in superposed relation to said cover section, said leaves being individually movable relative to said flap, when said flap is displaced from said position in superposed relation to the cover section in an outward rotative movement of said flap on its hinge connection with said cover section, said leaves, when the flap is rotated to its extreme outer position in alinement with said cover section, being disposed in superimposed relation to said flap and to said cover section, with their free edges staggered in laterally spaced relation to the hinge connection of said cover section to the backbone of the shell, to expose marginal portions of the leaves adjacent their free edges, the width of the marginal portions being fixed by the lateral spacing of the hinge connections of the leaves to said flap.

6. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections and a series of leaves, each in the form of a phonograph record-receiving envelope hinged to said flap in laterally spaced relation for conjoint movement therewith and for relative individual movement, whereby a rotative movement of said flap to a position outwardly of and in alinement with said cover section will simultaneously dispose all of said envelope-leaves in superimposed relation with their inner edges in staggered relation adjacent said backbone, leaves being preselectably rotatable to a position to dispose them wholly outwardly of their lines of hinge connection with said flap to afford access to the topmost of the leaves remaining in the position to which they were moved in the rotation of said flap into alinement with the cover section.

7. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections and a series of leaves, each in the form of a phonograph record-receiving envelope hinged to said flap along their closed side edges in laterally spaced relation with their open ends parallel to their hinged edges, said envelope leaves being conjointly movable with said flap in the actuation of said flap to a position outwardly of said cover section and in alinement therewith, to dispose all of said envelope leaves in superimposed relation to said cover section with the top leaf completely exposed, marginal portions of the open ends of the remaining envelope-leaves being exposed in staggered relationship beneath said top leaf, said leaves being rotatable individually and in preselected groups on their hinge lines relative to said flap for effecting their disposition inwardly or outwardly of the hinge line connecting the flap to the cover section for attaining access to a desired record contained within an envelope leaf.

8. A phonograph record album, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections and a series of leaves each in the form of a phonograph record-receiving envelope hinged to said flap along their sealed side edges in laterally spaced relation, with their open ends parallel to said sealed edges, said envelopes being independently movable relative to said flap and conjointly therewith, the conjoint movement of said leaves and said flap to locate said flap outwardly of said cover section and in alinement therewith disposing all of said envelope-leaves in superimposed association with said cover section, with the topmost envelope-leaf completely exposed, marginal portions of the open ends of the envelope-leaves beneath said topmost leaf being exposed in staggered relation in conformity with the positions of the hinge stations of the respective envelope leaves on said flap, said envelope-leaves being optionally rotatable individually or in groups with relation to other thereof, outwardly of their lines of hinge connection with said flap, to locate another envelope leaf preselectable by the exposure of its marginal portion, in topmost position, for the extraction of the contained record therefrom.

9. A phonograph record album including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to the normally free edge of each of the cover sections and a series of leaves each in the form of a phonograph record-receiving envelope hinged to said flap along their sealed side edges in laterally spaced relation, with their open ends parallel to said sealed edges, said envelopes being independently movable relative to said flap and conjointly therewith, the conjoint movement of said leaves and said flap to locate said flap outwardly of said cover section and in alinement therewith disposing all of said envelope-leaves in superimposed association with said cover section, with the topmost envelope-leaf completely exposed, marginal portions of the open ends of the envelope-leaves beneath said topmost leaf being

exposed in staggered relation in conformity with the positions of the hinge stations of the respective envelope-leaves on said flap, said envelope-leaves being optionally rotatable individually or in groups with relation to others thereof, outwardly of their lines of hinge connection with said flap, to locate another envelope-leaf preselectable by the exposure of its marginal portion, in topmost position, for the extraction of the contained record therefrom; and rigid strips mounted on the inner surfaces of the opposite cover sections adjacent certain of their edges for mating engagement to form three enclosing side walls of the album with which they are associated, the oppositely disposable flaps coacting therewith in forming a leaf enclosure within the area of the cover sections.

10. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to an edge of each of the cover sections, and a series of leaves hinged in laterally spaced relation to the inner surface of each flap; the arcuate movement of the flap in the direction towards the cover section to which it is hinged disposing the leaves in superimposed relation upon said cover section with their free edges in alinement with one another; the arcuate movement of the flap in a direction away from the cover section to which it is hinged disposing the leaves in superimposed relation upon said cover section with their free edges in staggered laterally spaced relation to one another.

11. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to an edge of each of the cover sections, and a series of leaves each in the form of a phonograph record-receiving envelope hinged to said flap in laterally spaced relation for conjoint movement therewith and for relative individual movement; the arcuate movement of the flap in the direction towards the cover section to which it is hinged disposing the envelope-leaves in superimposed relation upon said cover section with their free edges in alinement with one another; the arcuate movement of the flap in a direction away from the cover section to which it is hinged disposing the envelope-leaves in superimposed relation upon said cover section with their free edges in staggered laterally spaced relation to one another.

12. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to an edge of each of the cover sections, and a series of leaves each in the form of a phonograph record-receiving envelope hinged to said flap in laterally spaced relation for conjoint movement therewith and for relative individual movement; the arcuate movement of the flap in the direction towards the cover section to which it is hinged disposing the envelope-leaves in superimposed relation upon said cover section with their free edges in alinement with one another; the arcuate movement of the flap in a direction away from the cover section to which it is hinged disposing the envelope-leaves in superimposed relation upon said cover section with their free edges in staggered laterally spaced relation to one another, and a wall formation along the remaining edges of each cover section to form an envelope-leaf enclosure within the area of the same.

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