Aug. 6, 1935. J. HASSENFELD 2,010,149

TWO-COMPARTMENT DISPLAY BOX AND BLANK FOR USE IN THE MANUFACTURE THEREOF

Filed Dec. 8, 1934 2 Sheets-Sheet 1

Fig. 1.

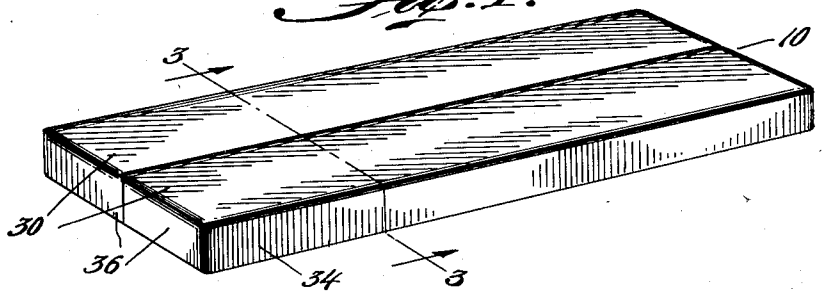


Fig. 2.

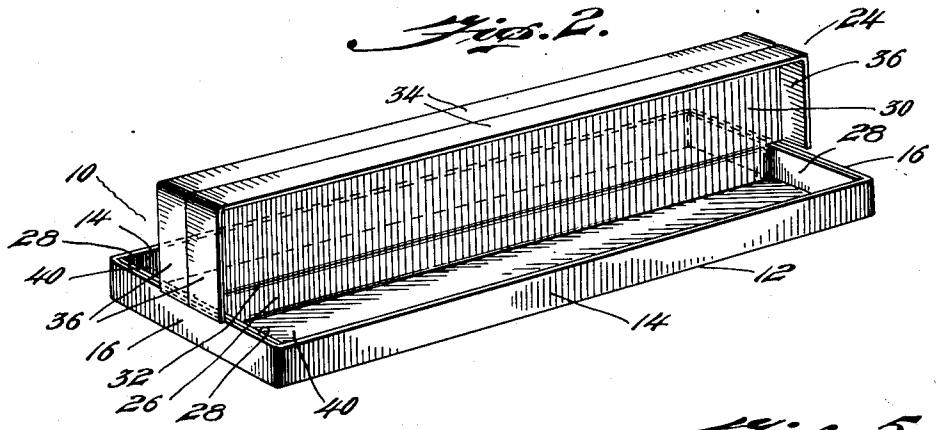


Fig. 5.

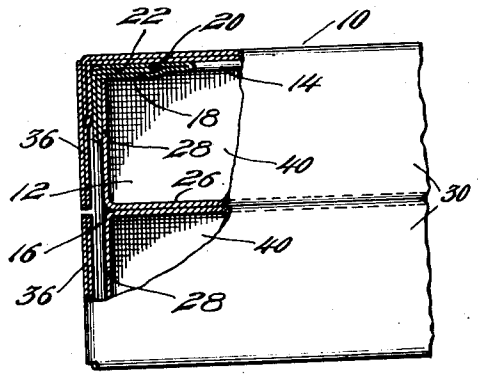


Fig. 3.

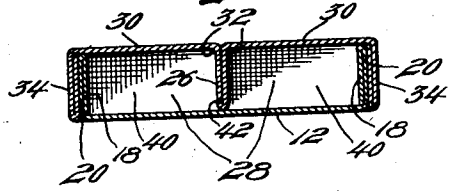
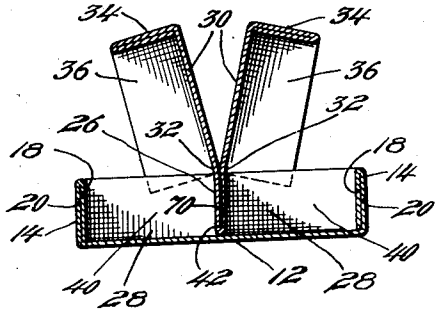


Fig. 4.



Inventor
Jack Hassenfeld
By Thomas A. Jenkes
Attorney

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TWO-COMPARTMENT DISPLAY BOX AND BLANK FOR USE IN THE MANUFACTURE THEREOF

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Fig. 6.

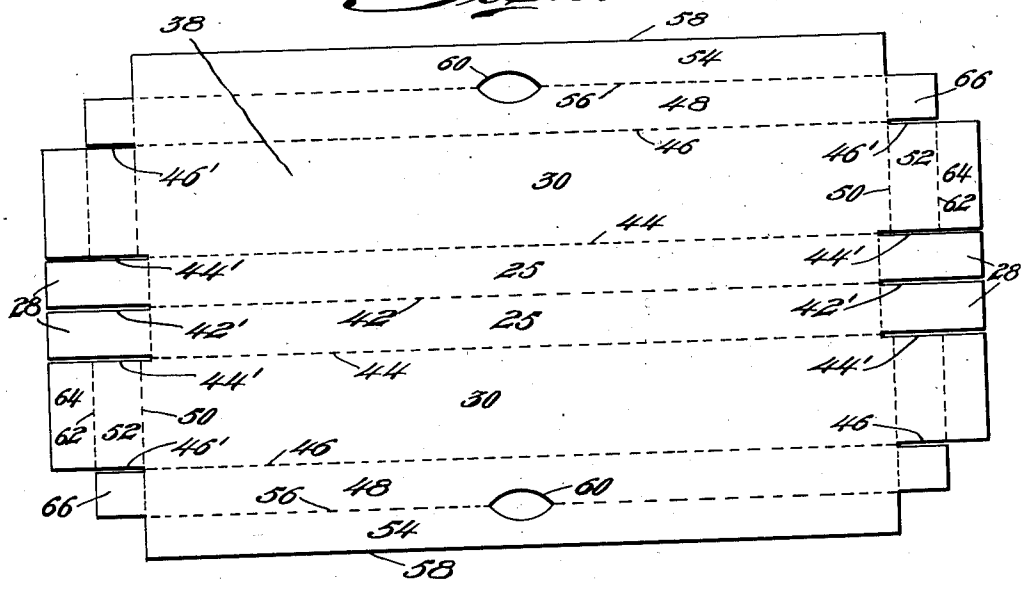
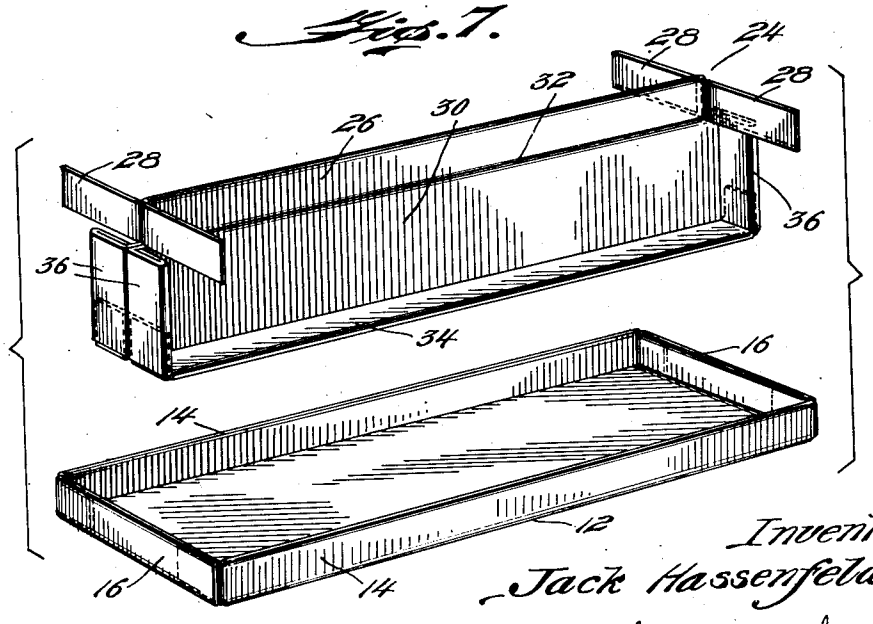


Fig. 7.



Inventor
Jack Hassenfeld
By Thomas A. Jenches
Attorney

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UNITED STATES PATENT OFFICE

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TWO COMPARTMENT DISPLAY BOX AND BLANK FOR USE IN THE MANUFACTURE THEREOF

Jack Hassenfeld, Providence, R. I.

Application December 8, 1934, Serial No. 756,652

4 Claims. (Cl. 229—15)

My invention relates to improvements in two compartment display boxes and blanks for use in the manufacture thereof which may be readily stamped and weakened in the desired portions thereof to be formed into a combined partition member dividing the box into two compartments and cover member having cover portions integrally secured to the upper end of said partition member. It is apparent that by employing my improved blank I have provided a two compartment box which may be fabricated out of two pieces of cardboard or like material and readily assembled by the operative in a simple folding process into a combined partition and cover member to be readily secured to the tray of the box.

My improved completed box may be constructed of any size desired, but in my preferred embodiment, it is preferably constructed relatively shallow so as to provide a substantially flat shallow box having two compartments, each for holding an analogous type of small article, such as a fountain pen and mechanical pencil unit, a school set, including pen, pencil and ruler, tooth brush and tooth paste unit, two neckties, two pairs of stockings, bridge set, crayon set, drawing set, etc.

A further object of my invention is to provide a compartment box of this description constructed of two parts only, which may be readily fabricated from cardboard, or like material, of simple symmetry of design and of pleasing appearance.

These and such other objects of my invention as may hereinafter appear will be best understood from a description of an embodiment thereof, such as is shown in the accompanying drawings.

In the drawings, Fig. 1 is a perspective view of a compartment box constructed in accordance with my invention in closed position.

Fig. 2 is a perspective view of the compartment box shown in Fig. 1 with each cover pivoted upwardly to an open position.

Fig. 3 is a cross sectional view of the box in closed position taken along the line 3—3 of Fig. 1.

Fig. 4 is a cross sectional view of the box shown in Fig. 2 in an open, but not fully opened position.

Fig. 5 is a plan view of one end of the box with portions thereof being broken away and shown in section.

Fig. 6 is a plan view of the improved type of blank I preferably employ for making the combined cover and partition member of my improved compartment box stamped from a sheet to the size to form the necessary parts thereof and weakened and cut along the desired lines so that the device may be readily folded for use.

Fig. 7 is a disassembled perspective view showing the box tray and my improved cover and partition member folded and assembled to open position just prior to being inverted to permit attachment of the tabs thereof to the inner surfaces of the tray end walls.

In the drawings, wherein like characters of reference indicate like parts throughout, 10 generally indicates a two compartment display box constructed in accordance with my invention. Said box includes a standard type of tray 12, preferably one having side walls 14 and end walls 16, the side and end walls in the embodiment shown being formed from a blank having extensions projecting therefrom substantially twice the depth of the tray and weakened centrally thereof and having the outer portions 18 thereof infolded on the inner portions 20 thereof and said portions 20 up-turned as shown in Figs. 3–5 to form the side walls 14 and end walls 16. If desired the tab portions 22 project laterally from the edges of the end walls and are bent at right angles to the end walls 16 to be folded between the outer and inner portions 18 and 20 of the side walls 14 to more securely secure the end walls 16 to said side walls 14 in a well known manner. If desired, however, the outer portions 18 of said side and end walls may be omitted.

My improved combined cover and partition member 24 when assembled includes the central partition portion 26 having the tabs 28 projecting laterally from each side of each end thereof secured in any suitable manner to the inner surfaces of said tray end walls. Said tabs 28 are preferably in length substantially one-half of the width of said tray 12 so that when said partition member and tabs are inserted within said tray the ends of said tabs will abut the adjacent portions of the side walls 14 of said tray to accurately align the partition along the longitudinal central line of said tray at each end thereof. Said central partition portion is provided with the compartment cover portions 30 integrally hingedly connected to each side of the upper end of said partition 26 by the weakened hinge lines 32 thus forming a cover 30 for each compartment. Said covers 30 are also preferably provided with the integral side walls 34 and end walls 36.

My improved combined cover and partition member is preferably as shown in Figs. 6 and 7 constructed of a single sheet 38 of cardboard, or folding board, or like material of greater area

than said tray infolded centrally thereof at distances equal to the depth of said tray to provide a partition 26 extending centrally longitudinally of said tray forming the compartments 40 on each side thereof and I provide the cover portions 30 of greater area than said compartment tops to provide edges to be downturned to form the cover side and end walls 34 and 36 respectively, the ends of said partition being cut inwardly centrally thereof and along the upper edges of said infolded partition to provide the tabs 28 in length of substantially one-half the width of said tray to be folded outwardly along the inner surfaces of said tray end walls to have the ends thereof abut adjacent portions of the tray side walls and be secured to said surfaces by glue, rivets, stretching or in any other suitable manner to secure said combined cover and partition to said tray to form a compartment box. While I preferably employ the tabs 28, it is apparent that the partition 26 may be secured to said tray 12 along the median longitudinal line thereof in any suitable manner. While I have employed the downturned side walls 34 and downturned end walls 36 of said covers 30, it is apparent that they may be omitted if desired.

My invention also includes an improved type of preformed blank for use in making a combined cover and partition member for the two compartment display box 10 hitherto described. Said blank 38 comprises a sheet of cardboard, folding board, or like material of greater area than said tray having a line 42 extending centrally longitudinally thereof weakened centrally thereof substantially the length of the tray in any suitable manner, such as by creasing, scoring, or in other manners known to the trade, said line 42 being preferably cut as at 42', substantially beyond the ends of said tray 12. Said blank also has a set of lines 44 extending longitudinally thereof parallel to said center line and spaced on each side of said center line throughout their length substantially the depth of said tray, weakened centrally thereof as at 44 substantially the length of said tray and cut as at 44' slightly within said tray and beyond said ends of said tray to form when said sheet is infolded along said center line 42 and set of lines 44, a central partition 26, dividing said tray into two compartments 40, one on each side of said partition 26 and also forming compartment cover portions 30 projecting laterally from said partition 26 hingedly integrally connected thereto by said weakened fold lines 44 to form the hinge lines 32 and tab portions 28 formed between said cut lines 42' and 44' extending beyond the length of said tray preferably substantially one-half the width of the tray adapted to be bent outwardly laterally to provide means to secure said cover and partition member 24 to said tray end walls.

In my preferred embodiment shown I also preferably provide the side walls 34 and end walls 36 for the cover portions 30 of said combined cover and partition member 24 and for this purpose I provide a second set of lines 46 extending longitudinally thereof each spaced laterally substantially one-half the width of said tray from said first set of lines 44 weakened centrally thereof the length of said tray as at 46 and cut beyond the ends of said tray as at 46'. It is thus obvious that when the portions 48 beyond said weakened lines 46 are downturned that they may form the cover side walls 34, said sheet being extended laterally for this purpose beyond said second set of lines 46 amounts 48 substantially the depth of said tray to form said cover side walls 34. To form the cover end walls, said sheet 38 is extended longitudinally between each of said first and second sets of cut lines 44' and 46', amounts 52 substantially the depth of said tray and is provided with inner weakened fold lines 50 extending laterally between said cut lines 44' and 46' at substantially the end of said tray to form the cover end walls 36 when downturned along said lines 50.

In the preferred type of cover shown, I have provided outer portions 54 and 64 for the cover side walls and cover end walls respectively adapted to be inturned on the inner portions 48 and 52 thereof respectively to provide a neater and stronger type of construction. For this purpose I extend the sheet 38 laterally beyond said second set of fold lines 46 substantially twice the depth of said tray and I provide a third set of weakened fold lines 56 extending longitudinally of said blank spaced from said second set of lines 46 and the sides 58 of said sheets 38 substantially the depth of said tray having centrally cut away handle slot forming portions 60 near the center thereof, whereby the outer portions 54 may be infolded on said inner portions 48 prior to said portions 48 being downfolded to form the cover side walls 34. With this type of construction the sheet is extended longitudinally between each of said first and second set of cut fold lines 44', and 46' substantially twice the depth of said tray and provided with a central weakened fold line 62 extending centrally laterally thereof between said cut lines 44' and 46' to provide the outer portions 64 substantially the depth of said tray adapted to be infolded over the inner portions 52 thereof prior to said inner portions 52 being downturned to form the cover end walls 36.

Said sheet 38 in my preferred embodiment, is also extended longitudinally distances 66 outwards between said cut lines 46' and said weakened lines 56 to form the tabs 66 projecting longitudinally from said inner cover side wall portions 48 adapted to be inturned between said end wall portions 52 and 64 to attach said cover side walls 34 to said cover end walls 36 in a more desirable fashion. It is obvious that if desired the tabs 66 may be dispensed with, the infolded portions 54 and 64 of the respective cover side and end walls 34 and 36 may be dispensed with and that the cover side walls 34 may be secured to the cover end walls 36 by stapling, pasting, or in any other manner known to the trade. If desired the partition portions 25 may be additionally glued or otherwise secured together as shown at 70 in Fig. 4 and if so secured together may be separated along the central line 42 thereof.

In forming the blank shown in Fig. 6 it is apparent that there is very little waste as the portions of said sheet laterally, diagonally and longitudinally beyond said tabs 66 only are removed, said parts being removed in a cutting or stamping operation and the weakened lines 42, 44, 46, 54, 56 and 62 and cut lines 42', 44', and 46' are preferably formed simultaneously therewith in a suitable type of combined stamping, cutting and creasing or scoring machine.

The blanks 38 may then be readily folded in the manner described as shown in the upper portion of Fig. 7 with the tabs 28 projecting outwardly or laterally relative to the partition 26 and with the cover portions 30 in open position aligned with said partition 26, the combined cover and partition member 38 is then inverted relative to the tray 12 and it is obvious that the ends of the tabs 28 will abut the side walls 14

of the tray to accurately align the partition 26 centrally longitudinally of said tray and that the tabs 28 may be pasted, riveted, or secured in any suitable manner to the inner surfaces of the end walls 16 of said tray, it being apparent that I have provided a novel means for attaching a combined partition and cover member for a compartment box to the tray thereof and in one attaching operation secured both cover members and a partition member to the tray portion of a compartment box.

It is understood that my invention is not limited to the specific embodiment shown and that various deviations may be made therefrom without departing from the spirit and scope of the appended claims.

What I claim is:

1. A two compartment display box comprising a tray having side and end walls, a combined cover and partition comprising a sheet of greater area than said tray infolded centrally thereof at distances equal to the depth of the tray to provide a partition portion extending centrally longitudinally of said tray forming a compartment on each side thereof and providing compartment cover portions integrally hinged to each side of the top of said partition of greater area than said compartment top to provide edges to be downturned to form cover side and end walls, the ends of said partition being cut inwardly centrally thereof and along the upper edges of said partition to provide tabs of a length substantially one-half the width of said tray to be folded outwardly along the inner surfaces of said tray end walls to have the ends thereof abut the tray side walls and secured to said surfaces to secure said combined cover and partition to said tray to form an integral compartment box.

2. A two compartment display box comprising a tray, having side and end walls, a combined cover and partition comprising a sheet of greater area than said tray infolded centrally thereof at distances equal to the depth of the tray to provide a partition portion extending centrally longitudinally of said tray forming a compartment on each side thereof and providing compartment cover portions integrally hinged to each side of the top of said partition, the ends of said partition being cut inwardly centrally thereof and along the upper edges of said partition to provide tabs to be folded outwardly along the inner surfaces of said tray end walls and secured to said surfaces to secure said combined cover and partition to said tray to form an integral compartment box.

3. A combined cover and partition member blank for a two compartment display box having a tray having side and end walls, comprising a sheet of cardboard or like material of greater area than said tray having a line extending centrally longitudinally thereof weakened centrally thereof substantially the length of the tray and cut substantially beyond the ends of said tray, a set of lines extending longitudinally thereof parallel to said center line and spaced on each side of said center line substantially the depth of said tray, weakened centrally thereof substantially the length of said tray, and cut from slightly within said tray and beyond the ends of said tray to form when said sheet is infolded along said center line and said set of lines, a central partition dividing said tray into two compartments one on each side thereof, compartment cover portions projecting laterally therefrom hingedly connected thereto by said weakened fold lines and tab portions extending beyond the length of said tray substantially one-half the width of the tray between said cut center line and each of said cut set lines adapted to be bent outwardly to abut said tray side walls and to provide means to secure said cover and partition member to said tray end walls, a second set of lines extending longitudinally thereof each spaced laterally substantially one-half the width of said tray from said first set of lines, weakened centrally thereof the length of said tray and cut beyond the ends of said tray, said sheet being extended longitudinally between each of said first and second sets of cut fold lines twice the depth of said tray and provided with inner weakened fold lines at substantially the ends of said tray and central weakened fold lines extending centrally laterally thereof, whereby the outer portions beyond said central fold lines may be infolded on the inner portions thereof and said inner portions may be downturned on said fold lines to form cover end walls and a third set of lines extending longitudinally thereof spaced from said second set of lines and from the sides of said sheet substantially the depth of said tray, whereby the outer portions beyond said set of lines may be infolded on the inner portions and said inner portions may be downturned to form cover side walls, said sheet being extended longitudinally a distance between said second and third sets of lines to form tabs adapted to be inturned between said end wall portions to attach said cover side walls to said cover end walls.

4. A combined cover and partition member blank for a two compartment display box having a tray having side and end walls, comprising a sheet of cardboard or like material of greater area than said tray having a line extending centrally longitudinally thereof weakened centrally thereof substantially the length of the tray and cut substantially beyond the ends of said tray, a set of lines extending longitudinally thereof parallel to said center line and spaced on each side of said center line substantially the depth of said tray, weakened centrally thereof substantially the length of said tray and cut from slightly within said tray and beyond the ends of said tray to form when said sheet is infolded along said center line and said set of lines, a central partition dividing said tray into two compartments one on each side thereof, compartment cover portions projecting laterally therefrom hingedly connected thereto by said weakened fold lines and tab portions extending beyond the length of said tray substantially one-half the width of the tray between said cut center line and each of said cut set lines adapted to be bent outwardly to abut said tray side walls and to provide means to secure said cover and partition member to said tray end walls, a second set of lines extending longitudinally thereof each spaced laterally substantially one-half the width of said tray from said first set of lines, weakened centrally thereof the length of said tray and cut beyond the ends of said tray, said sheet being extended longitudinally between each of said first and second sets of cut fold lines twice the depth of said tray and provided with weakened fold lines at substantially the ends of said tray, whereby said portions may be downturned on said fold lines to form cover end walls.

JACK HASSENFELD.