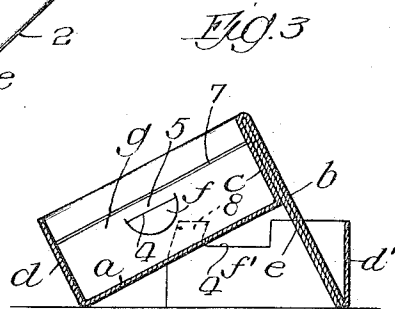
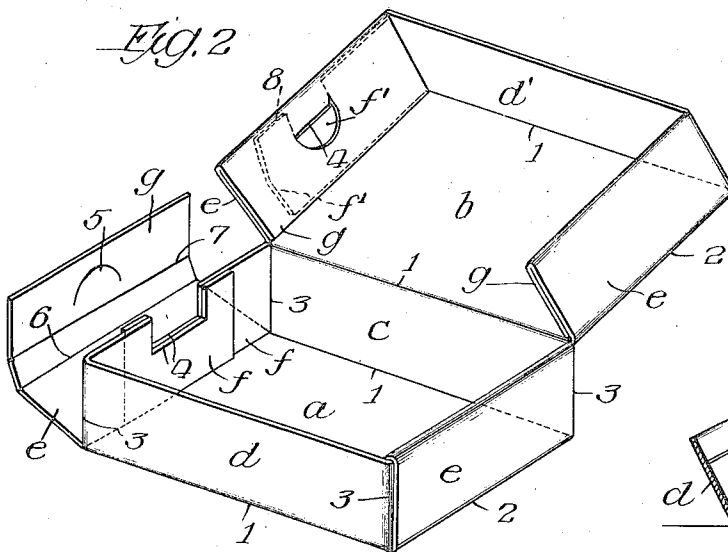
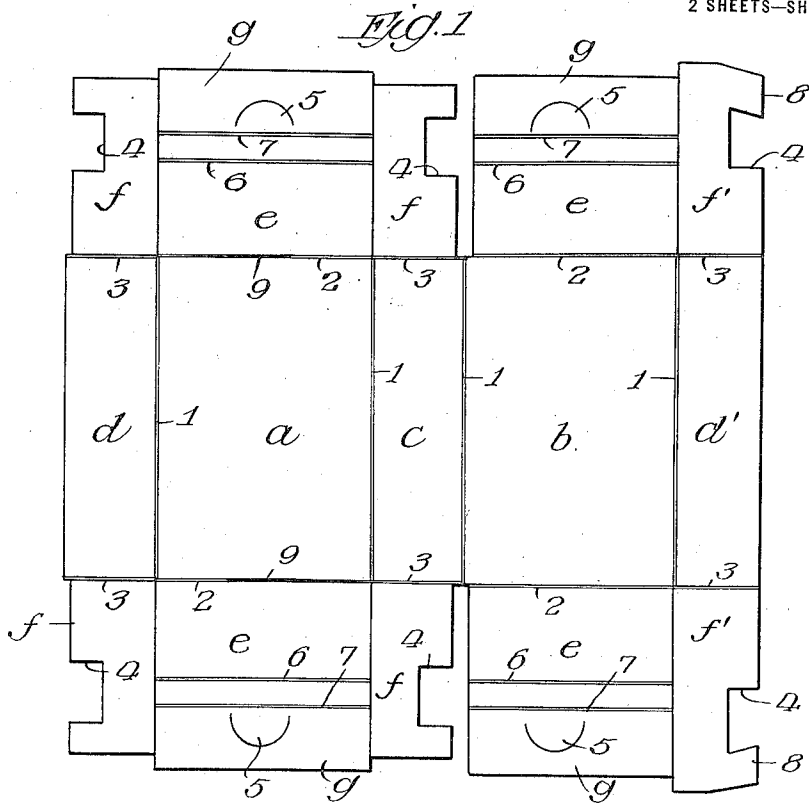


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FOLDING PAPER BOX.
APPLICATION FILED AUG. 18, 1917.

1,363,436.

Patented Dec. 28, 1920.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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FOLDING PAPER BOX.

1,363,436.

Specification of Letters Patent. Patented Dec. 28, 1920.

Application filed August 18, 1917. Serial No. 138,878.

To all whom it may concern:

Be it known that I, RALPH R. RICHARDSON, a citizen of the United States, and a resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Folding Paper Boxes, of which the following is a specification.

The invention relates to folding paper boxes and seeks to provide a simple, inexpensive, strong paper box having a hinged cover. A further object of the invention is to provide simple means for holding the box in inclined position to display its contents.

The invention consists in the features of improvement hereinafter set forth, illustrated in different preferred forms in the accompanying drawings and more particularly pointed out in the appended claims.

In the drawings, Figure 1 is a blank for forming a box embodying the present invention. Fig. 2 is a perspective view of the box made from the blank shown in Fig. 1, one of the box ends being partially folded to more clearly show its construction. Fig. 3 is a cross section of the box held in inclined position for display purposes. Fig. 4 is a perspective view with the parts in the position shown in Fig. 3. Fig. 5 is a plan view of a blank for forming a modification of the invention. Fig. 6 is a cross section of the box made from the blank shown in Fig. 5 with the parts in closed position. Fig. 7 is an end view of the same box arranged in position for display purposes.

The improved box is provided with a body portion and a cover hinged thereto. The form shown in Figs. 1 to 4 inclusive has two main sections *a* and *b* which form the bottom of the box body and the top or cover, the main cover section *b* being slightly larger than the main section or bottom *a* of the box body. These sections have a common back section *c* and separate front sections *d* and *d'* connected thereto along scores 1.

Both the box body and cover are provided with folded ends which are formed of end sections *e* connected to the ends of the main sections *a* and *b* along scores 2 and flaps *f* and *f'* connected to the ends of the back and front sections along scores 3. To connect the parts of the folded ends, the flaps *f* and *f'* are cut away or provided with notches 4 in their upper edges and the end sections *e*

are provided with locking flaps *g* having tongues 5 which are arranged to engage the notches 4. The locking flaps are connected or hinged to the end sections *e* along scores 6.

The tongues 5 are formed by cutting curved slits in the flaps *g* intermediate the edges thereof so that the tongues are spaced apart from the edges of the flaps and are entirely surrounded by uncut portions of the flaps. To facilitate the insertion of the tongues 5 into the notches 4, the locking flaps *g* are provided with scores 7 which are arranged adjacent the bases of the tongues 5 and parallel to the scores 6. In setting up the box body, the back and front sections *c* and *d* are folded upwardly about the scores 1 and the end flaps *f* fold inwardly about the scores 3 as indicated at the left hand end of the box shown in Fig. 2. In this position the notches 4 register at a point mid-way between the front and back of the box body. The end section *e* is then folded up against the outer faces of the flaps *f* and the locking flap *g* is folded inwardly over the inner faces thereof, the tongue 5 being inserted through the notches 4 as indicated in Figs. 3 and 4.

In a similar manner, the front *d'* of the box cover is folded about the score 1 and the end flaps *f* and *f'* thereof are folded inwardly about the scores 3, the end sections *e* and locking flaps *g* thereof being folded over the end flaps *f* and *f'* and interlocked therewith by inserting the tongues 5 through the notches 4 and behind the uncut portions of said end flaps. As shown, the tongues 5 of the box body are preferably centrally located, whereas the tongues 5 of the cover are arranged more nearly adjacent the rear edge thereof, the notches 4 of the flaps *f'* of the cover front being similarly disposed. The arrangement of the folded ends of the box body and cover is such that they can be readily set up and form a strong construction. The locking flaps *g* are of substantially the same height as the end flaps *f* and since the cut-out tongues 5 of the locking flaps are entirely surrounded by uncut portions thereof, the latter are held snugly in place to form smooth inner surfaces for the end flaps. This is a feature of particular advantage in the construction of the cover, the front and ends of which fit over the corresponding parts of the box body when

closed, since the solid construction of the folded ends of the box and cover and the fact that the locking flaps *g* of the cover ends are held snugly in place, facilitate the opening and closing of the cover. The front and folded ends of the cover are substantially the same height as the vertical walls of the box and the parts form a stout construction when the cover is closed.

10 The parts of the cover are arranged to hold the box in inclined position to display the contents thereof. For this purpose the ends of the flaps *f'* are shaped to form inclined tongues 8 and the scores 2 of the box body are provided with slits 9 for receiving these tongues. In setting up the box for display purposes, the parts of the cover are first unfolded. The end sections *e* with the flaps *g* thereon are folded about the scores 2 against the upper face of the cover *b*. The latter is then downturned or folded backwardly about the score 1 at its upper edge to a position substantially parallel with the back section *c* of the box body. The front section *d'* of the cover is folded upwardly and the end flaps *f'* thereof are extended forwardly, the tongues 8 being inserted in the notches 9. When the construction is so arranged and placed upon a horizontal surface, the box body is securely held in inclined position for display purposes as shown in Figs. 3 and 4. The parts of the cover then form a secure braced support for holding the body of the box inclined. In this position, the parts *e* and *g* are held out of the way between the cover *b* and back section *c*.

The form shown in Figs. 5, 6 and 7 is quite similar to that shown in Figs. 1 to 4 inclusive. The construction of the cover and parts thereof is entirely similar. The construction of the box body is the same except that the end flaps *f*² are not provided with notches and the locking flaps *g'* are held in place by rounded tongues 10 formed upon their lower ends and arranged to engage the slits 9 formed in the scores 2 at the lower edges of the ends of the box body, and which slits are also engaged by the tongues 8 on the flaps *f'* when the parts are arranged in the display position, as shown in Fig. 7.

This construction is also provided with a display front *h* connected to the box front *d* along the score 11 and having triangular end flaps or wings 12 connected thereto along scores 13. In the closed position of the box, the display front is folded inwardly with the flaps or wings 12 extended downwardly adjacent the inner faces of the folded ends of the box body. These wings are provided at their ends with tongues 14 and, in display position, these tongues are inserted in slots 15 formed in the end sections *e* of the box body. In this way the display front *h* is held at an angle to the box front so that

printed or other advertising matter thereon can be readily seen. Preferably the display front is narrower than the box front so that the parts of the display front and the forward portion of the box body both rest on the horizontal supporting surface as indicated in Fig. 7.

It is obvious that changes may be made in the details of construction without departure from the essentials of the invention as defined in the claims.

I claim as my invention:—

1. In a folding paper box, a main section, side and end sections integrally hinged to said main section and an intumed end flap hinged directly to said side section and arranged against the inner face of said end section, said flap having substantially the same height as said end section and being cut away to form a notch, and a locking flap hinged to said end section, folded inwardly over said end flap and having a cut out tongue between and spaced from its upper and lower edges and extending outwardly through the notch of said end flap, said locking flap being rectangular in outline and of substantially the same width as said end section and forming a smooth inner face for the end of the box, substantially as described.

2. In a folding paper box, a main section, pairs of side and end sections integrally hinged to said main section, pairs of intumed end flaps hinged to said side sections and arranged against the inner faces of said end sections, said pairs of end flaps overlapping in operative position, having substantially the same height as said end sections and being cut away to form registering notches, and locking flaps hinged to the upper edges of said end sections, folded inwardly over the inner faces of said end flaps and having cut out tongues between and spaced from their upper and lower edges and extending outwardly through the registering notches of said end flaps, said locking flaps being rectangular in outline and having substantially the same dimensions as said end sections and forming smooth inner end faces for the box, substantially as described.

3. A folding paper box comprising bottom and cover sections having a common rear section and each having front sections and folded ends adapted to overlap in closed position, portions of the folded ends of the cover being arranged to engage the box body and hold said cover section downturned to thereby support the box body in inclined position.

4. A folding paper box comprising bottom and cover sections having a common rear section and each having front sections and folded ends adapted to overlap in closed position, the box body having slits at the

lower edges of its ends and portions of the folded ends of the cover being arranged to engage said slits to hold said cover section downturned with other portions of its 5 folded ends between the same and said rear section and thereby form a support for holding the box body in inclined position.

10 5. In a paper box, a box body and a cover hinged thereto and having front and end sections provided with connecting flaps, certain of said flaps being arranged to engage the box body and hold said cover in a downturned position to serve as a support for holding the box body inclined.

15 6. In a paper box, a box body and a cover hinged to the upper edge of its rear wall, said cover having front and end sections provided with overlapping connecting flaps, the flaps of said front section being arranged 20 to engage the box body and hold said cover downturned with said end sections and the flaps thereof between said cover section and the box body and thereby form a support for holding the box body in an inclined position. 25

7. In a paper box, a box body and a cover hinged to the upper edge of its rear wall,

said cover having front and end sections provided with overlapping connecting flaps, said box body having slits in the lower edges 30 of its ends and the flaps of said front section having tongues arranged to engage said slits and hold said cover downturned to thereby support the box body in an inclined position. 35

8. In a paper box, a box body, a cover hinged to the upper rear portion thereof, a display front hinged to the upper front portion of said box body, means for holding said cover downturned to serve as a support 40 for holding the box body inclined and means for holding said display front at an angle to the front wall of said box body.

9. In a paper box, a box body, a cover hinged to the upper rear edge thereof, a 45 display front hinged to the upper front edge of said box body, means for holding said cover downturned to serve as a support for holding the box body inclined and flaps on the ends of said display front arranged to 50 engage slots in the ends of the box body and hold said display front at an angle to the front of the box body.

RALPH R. RICHARDSON.