No. 695,200. Patented Mar. 11, 1902.

J. T. FERRES.

BOX.

(Application filed Aug. 12, 1901.)

(No Model.)

Fig. 1.

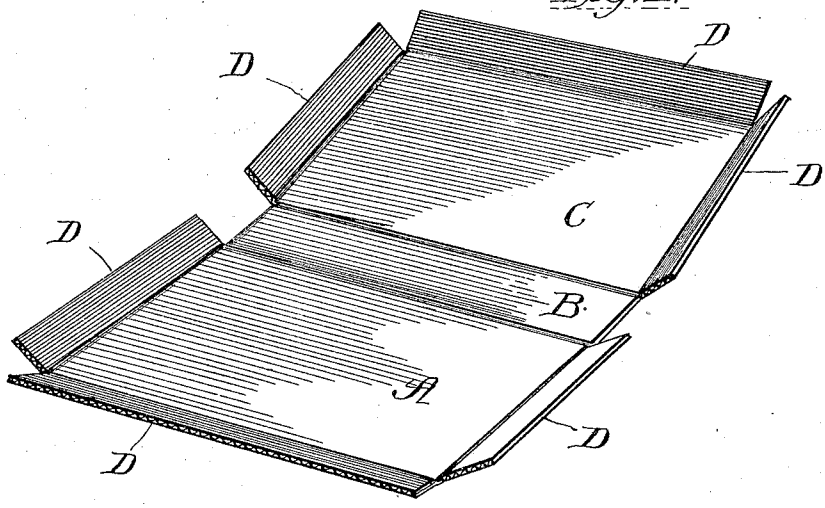


Fig. 2.

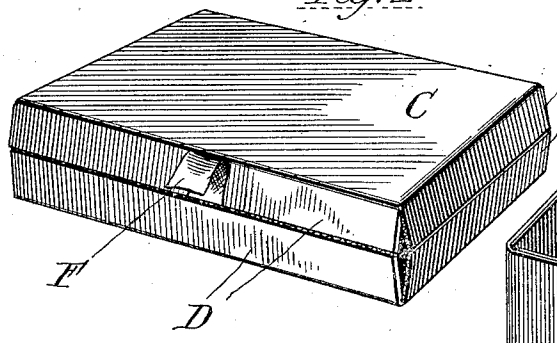


Fig. 3.

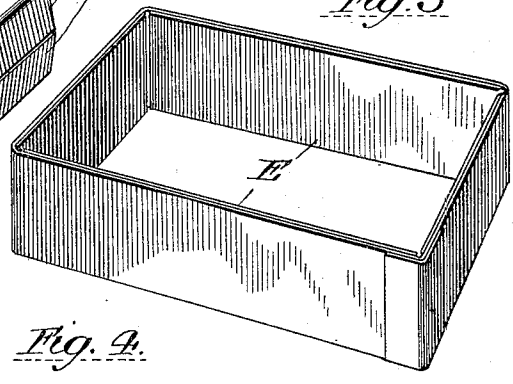
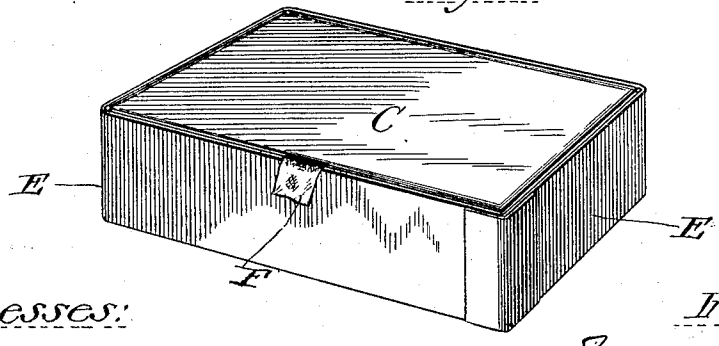


Fig. 4.



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UNITED STATES PATENT OFFICE.

JEFFREY T. FERRES, OF ANDERSON, INDIANA, ASSIGNOR TO J. W. SEFTON MANUFACTURING COMPANY, OF ANDERSON, INDIANA, AND CHICAGO, ILLINOIS, A CORPORATION OF INDIANA.

BOX.

SPECIFICATION forming part of Letters Patent No. 695,200, dated March 11, 1902.

Application filed August 12, 1901. Serial No. 71,782. (No model.)

To all whom it may concern:

Be it known that I, JEFFREY T. FERRES, a citizen of the United States, residing at Anderson, in the county of Madison and State of Indiana, have invented a certain new and useful Improvement in Boxes, of which the following is a description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates more particularly to folding boxes made of heavy paper-board or similar material, and has for its object the production of a simple, cheap, and particularly strong box of this character in which fragile articles may be shipped without danger of breakage.

In the accompanying drawings, Figure 1 is a perspective view of the inner part or box proper of my improved box, opened out to show the shape of the blank. Fig. 2 is a perspective view of said box when folded up into box form; Fig. 3, a perspective view of the outer band or casing into which the box of Fig. 2 is adapted to fit, and Fig. 4 a perspective view of the complete box and casing in assembled form.

The same letters of reference are used to indicate like or corresponding parts in the several views.

The box-blank shown in Fig. 1 is preferably cut of a single piece of double-faced corrugated paper-board and is composed of a bottom A, a rear wall or side B, hinged to said bottom, a top C, hinged to the upper edge of the rear wall B, and flanges D, hinged to the three outer edges of the bottom A and top C and constituting when the blank is folded into box form the front and end walls of the box, as shown in Fig. 2. These flanges D are preferably of corresponding width or depth upon both the top and bottom of the box, so that when the blank is folded into box form its upper and lower halves are separated in a horizontal plane midway of the height of the box. The box, folded into closed form, (shown in Fig. 2,) is adapted to be inserted into the outer band or casing E. (Shown in Fig. 3.) This band or casing is likewise preferably formed of a strip of heavy corrugated paper and suitably creased at its four corners, and it serves to hold the inner box in closed condition and at the same time provide an outer protecting-wall for the same, so that the contents of the box are surrounded upon its four sides by a double thickness of the heavy corrugated paper-board. When confined within this outer band or casing, the upper edges of the flanges D, projecting upward from the bottom of the box, and the lower edges of the flanges D, depending from the top of the box, abut squarely together, so that it is impossible to collapse the inner box by pressure upon the top of it, and a very strong and rigid structure is therefore produced, which will efficiently protect the contents of the package and which is at the same time very light, cheap, and conveniently handled. The flange D, depending from the forward edge of the top of the box, Fig. 3, has secured to it a piece of canvas or other textile fabric F, which may be grasped by the thumb and finger and serve as a means for readily opening the box, the top of the box and its depending flanges being capable of being swung upward and backward and upon the box without removing the box from the outer case E or displacing it in any way from position therein. The complete structure (shown in Fig. 4) constitutes a closed box having a hinged lid, which may be readily swung upward to gain access to the contents of the box and which when swung downward to closed position is securely confined therein by the outer case.

The outer case E may be collapsed into flat form for shipment or storage, and as the blank constituting the inner box may likewise be shipped and stored in flat form a large quantity of the boxes may be shipped and stored in compact form in a small space.

Having thus fully described my invention, I claim—

1. The herein-described box comprising the outer band or case E and the separate inner box composed of the bottom A a rear wall or side B hinged to said bottom, a top C of the same size as the bottom A and hinged to the upper edge of the rear wall B, and the two series of three flanges D hinged respectively to the three outer edges of the bottom A and top C and constituting, when the blank is

folded into box form, the front and end walls of the box, said inner box being adapted to be inserted in closed form into and confined by the said outer case E; substantially as described.

2. The herein-described box comprising the outer band or case E open at top and bottom and the separate inner box composed of the bottom A, top C, intermediate rear wall or side B hinged respectively to the said bottom and top and the two series of three flanges D hinged to the three remaining edges of the bottom and top, the corresponding flanges of the bottom and top meeting edge to edge in substantially the same plane and within the said case E; substantially as described.

3. The herein-described box comprising the rectangular band or case E and the separate inner box received by said case and composed of the blank having the rectangular bottom A and corresponding top C with an interposed rear wall or side B hinged respectively to the bottom and top, and the rectangular flanges D all of equal width which is one-half of the depth of the box and hinged to the free edges of the bottom and top whereby when the blank is folded into box form its front and the two side walls are formed by corresponding flanges on the bottom and top which flanges meet in a horizontal plane midway of the height of the box; substantially as described.

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