S. BACHMANN.

FOLDING BOX.

APPLICATION FILED JUNE 26, 1909.

987,280. Patented Mar. 21, 1911.

Fig. 1

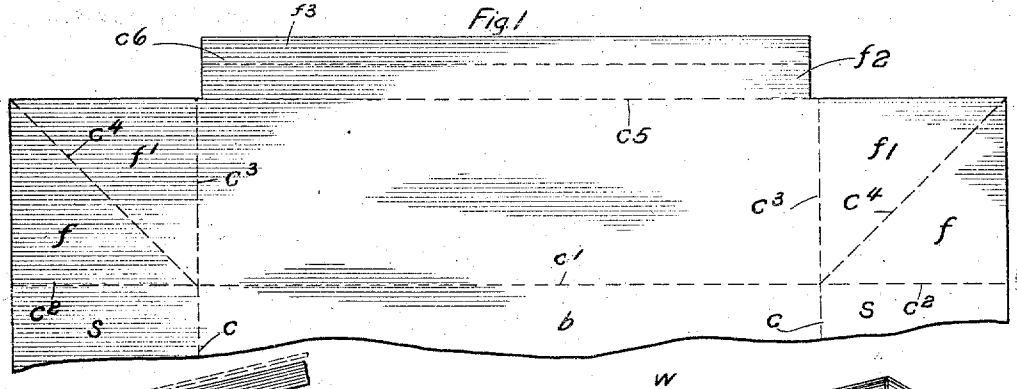


Fig. 2

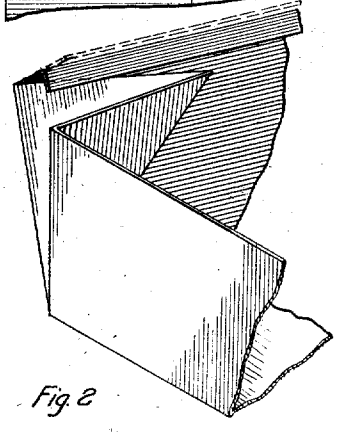


Fig. 3

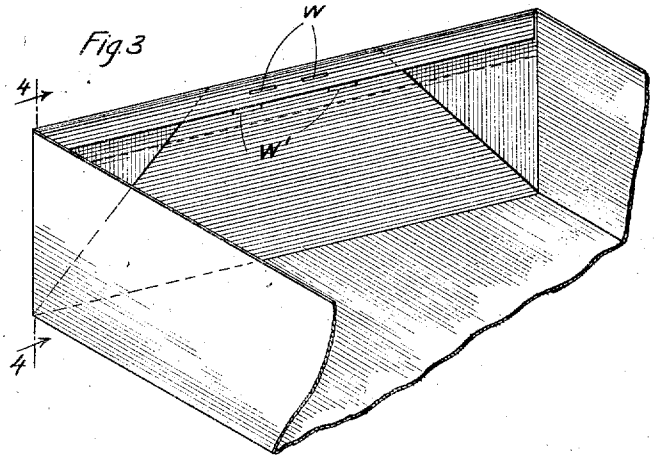


Fig. 4

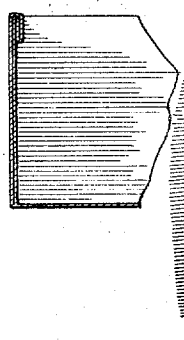
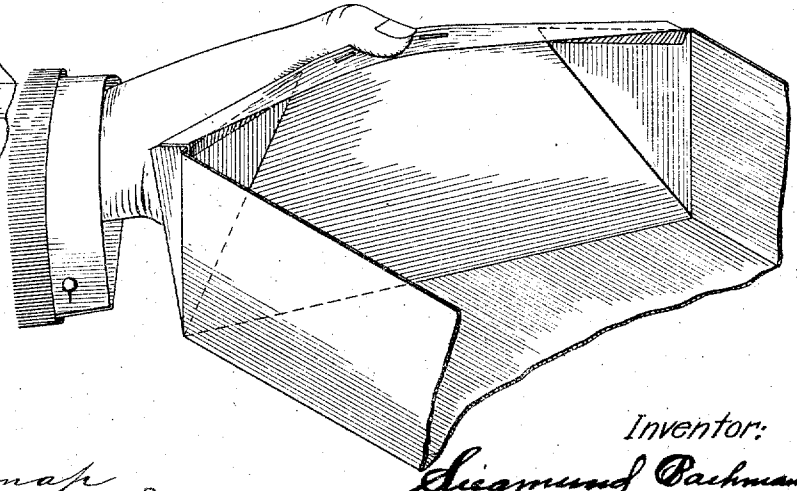


Fig. 5



Witnesses:
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By John Howard McElroy Atty

UNITED STATES PATENT OFFICE.

SIEGMUND BACHMANN, OF CHICAGO, ILLINOIS.

FOLDING BOX.

987,280. Specification of Letters Patent. Patented Mar. 21, 1911.

Application filed June 26, 1909. Serial No. 504,461.

To all whom it may concern:

Be it known that I, SIEGMUND BACHMANN, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Folding Boxes, of which the following is a full, clear, and exact specification.

My invention is concerned with collapsible boxes of the general type shown in my Patent No. 855,746, granted June 4, 1907. and is designed to remedy a defect which I have found to exist in it and similar boxes.

To illustrate my invention, I annex hereto a sheet of drawings, in which the same reference characters are used to designate identical parts in all the figures, of which,—

Figure 1 is a plan view of one end of a blank for a box embodying my invention; Fig. 2 is a perspective view of one corner of the box, partly erected; Fig. 3 is a perspective view of one end of the box completely erected; Fig. 4 is a detail in section on the line 4—4 of Fig. 3; and Fig. 5 is a perspective view of one end of the box, showing the action of the parts when it is held by the lapped side of that end.

In the specific box shown in my aforesaid Patent, No. 855,746, the blank was, of course, the same in its two halves, and each lapped or narrow side of it, as it might be called was substantially the same as the lapped side or end of the blank shown in Fig. 1, except that it did not have the folding line c^6. It consisted of the body or bottom b, together with the preferably plain sides s, and the lapped sides e with the intervening folding lines c and c', respectively, and the plain sides had the triangular corner folds f with the intervening folding lines c^2, while the lapped sides e had the similar folds f' with the intervening folding lines c^3, and the folds f and f' had the intervening diagonal folding lines c^4. The lapped sides e had the folds f^2 with the intervening horizontal folding lines c^5. The corners were folded up when erected, as is shown in Figs. 2 and 3, in dotted lines, with the lapped side fold f^2 without the folding line c^6, and the folds f^2 were secured to the lapped sides e by staples or any suitable securing means, about as indicated at w in dotted lines. The corner folds f and f' were caught under the lapped side folds f^2, and a box was thus produced that could be readily collapsed or erected as required. It was found, however, that occasionally the boxes would be grasped at the middle of one lapped side, as indicated in Fig. 5, in which case, if the box was heavy, it would be very apt to collapse by reason of the edges of the folds f pulling out from under the lapped side fold f^2, thus causing some delay and inconvenience; and to remedy this difficulty is the object of the present invention. To this end, I provide one additional fold member, by placing in the fold f^2 a folding line c^6 nearer the free side of the fold, thus virtually making another fold member f^3, and I place the securing means w preferably a little higher up and closer together, preferably passing them through all the parts e, f^2 and f^3. With this construction, when the box is grasped, as shown in Fig. 5, the outward pull of the corner folds f on the folds f^2 and f^3 causes the end portions of the latter to turn toward a position substantially at right angles to the folds f, thus effectually locking them in position and preventing the accidental collapse of the box, while not in any way interfering with its being purposely collapsed or erected.

While I have shown the corner portions f and f' as being folded inside the box and the engaging folds f^2 and f^3, likewise inside the box, to engage the corner portions, it will be readily understood that the corner portions might be folded outside the box and the engaging folds likewise placed on the outside to engage them, in which case the box would be collapsed inwardly and the folds f^2 and f^3 would resist the tendency to collapse in that direction.

While I have shown my invention as embodied in the form which I at present consider best adapted to carry out its purposes, it will be understood that it is capable of modifications, especially in the construction of the corner folds, and that I do not desire to be limited in the interpretation of the following claim except as may be necessitated by the state of the prior art.

What I claim as new, and desire to secure by Letters Patent of the United States, is:

A box having a bottom, sides, ends and corner portion, extensions on said sides folded to form a double fold and secured to the sides with the ends of the folds over-

lying the corner portions, said folded extensions adapted to unfold partially to form a hook to engage the corner portions and prevent accidental collapsing of the box when the central portion of the sides is forced in the direction tending to collapse it.

In witness whereof, I have hereunto set my hand and affixed my seal, this 22nd day of June A. D. 1909.

SIEGMUND BACHMANN. [L. S.]

Witnesses:

JOHN HOWARD MCELROY,

F. E. BROM.

Correction in Letters Patent No. 987,280.

It is hereby certified that in Letters Patent No. 987,280, granted March 21, 1911, upon the application of Siegmund Bachmann, of Chicago, Illinois, for an improvement in "Folding Boxes," an error appears in the printed specification requiring correction as follows: Page 1, line 106, the word "portion" should read *portions;* and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 18th day of April, A. D., 1911.

[SEAL.]

C. C. BILLINGS,

Acting Commissioner of Patents.