

957,395.

H. B. WALTER.
BOX.
APPLICATION FILED MAR. 8, 1909.

Patented May 10, 1910.

2 SHEETS—SHEET 1.

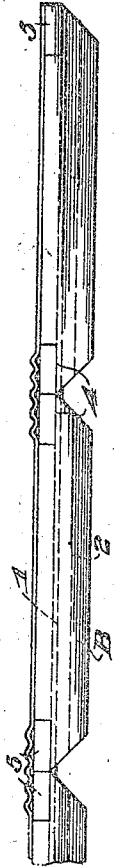


Fig. 1.

Witnesses
Eugene W. Ketch

M. A. Freeman

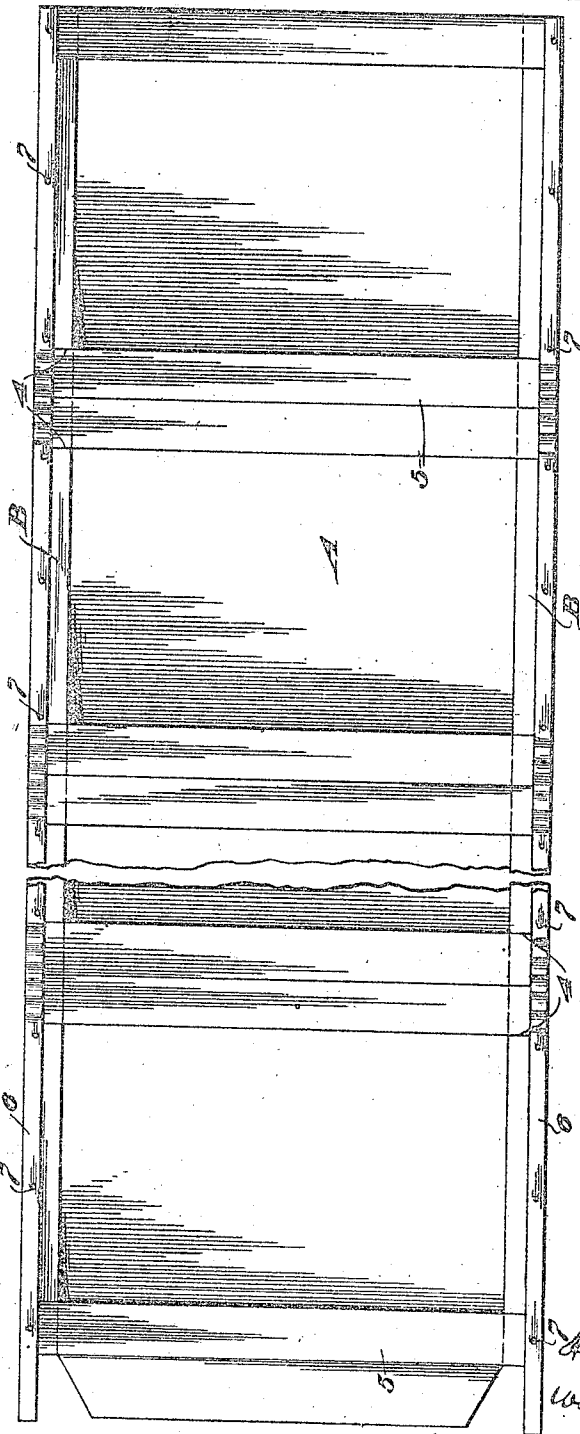


Fig. 2.

Inventor

H. B. Walter

By Louis B. Rapp
His Attorneys

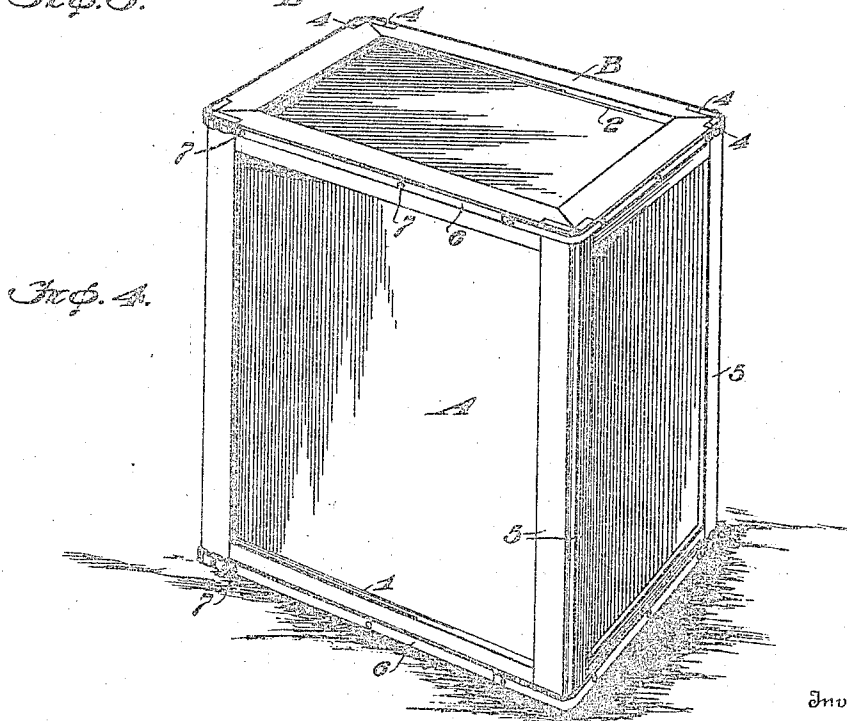
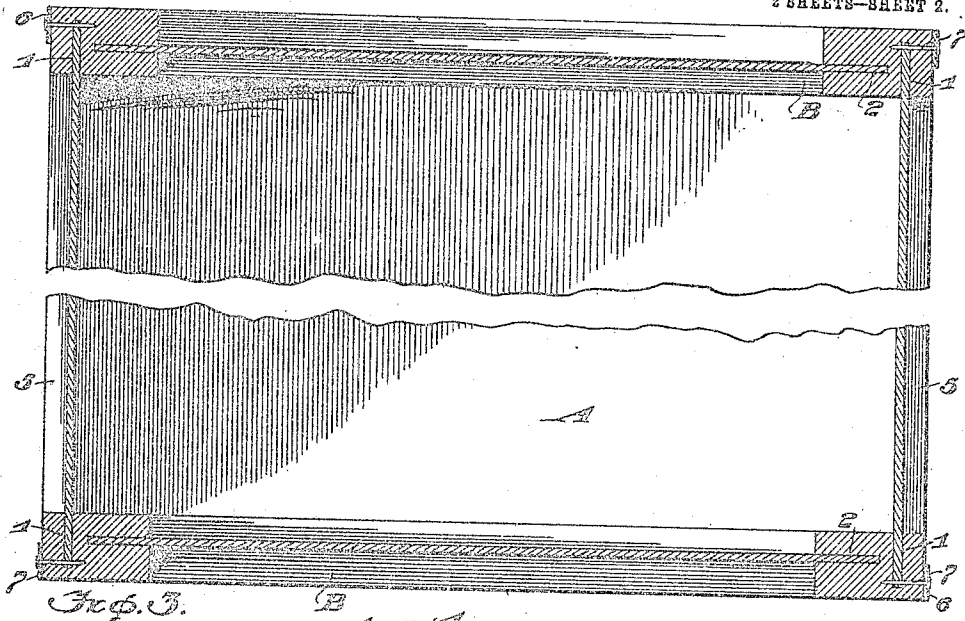
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2 SHEETS—SHEET 2.



Witnesses
Eloy W. Patch
M. H. Freeman

Inventor
Harrison B. Walter
By Louis R. Bagger
his Attorney

UNITED STATES PATENT OFFICE.

HARRISON B. WALTER, OF DANVILLE, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO NATIONAL FIBRE BOX COMPANY, OF DANVILLE, ILLINOIS, A CORPORATION OF ILLINOIS.

BOX.

957,395.

Specification of Letters Patent.

Patented May 10, 1910.

Application filed March 8, 1909. Serial No. 481,993.

To all whom it may concern:

Be it known that I, HARRISON B. WALTER, a citizen of the United States, residing at Danville, in the county of Vermilion and State of Illinois, have invented certain new and useful Improvements in Boxes, of which the following is a specification.

My invention relates to an improvement in boxes, and the object is to provide means for affording additional strength to the edges of the box, as well as for holding the battens in proper position.

A further object is in the provision of a binding strip which passes around the body of the box over the battens and is yieldable at the corners of the battens and box for forming a hinge of great binding or pulling power for holding the battens tight together in perfect alinement and affording additional security to the horizontal strips.

The invention consists of certain other novel features of construction and combinations of parts which will be hereinafter fully described and pointed out in the claims.

In the accompanying drawings—Figure 1 is a top plan view of the body of the box before being folded to form a box; Fig. 2 is a view in side elevation; Fig. 3 is a cross section, and Fig. 4 is a perspective view of the assembled box.

A represents the body of the box and B the battens. Each batten is provided with a longitudinal groove on two adjacent faces, the groove 1 adapted to receive the body of the box and the groove 2 adapted to receive the removable ends 3 of the box. The battens are cut away for a short distance as at 4 at each end, the cutaway portions or recesses being practically on a level with the upper portion of the groove 1. Received in these recesses 4 are horizontal strips 5. These strips tend to keep the battens the desired distance apart and at the same time afford additional strengthening means to the body of the box and also for the folding edges of the box, preventing the boxes from being injured at their edges. The horizontal strips are on each side of the folding edge of the body of the box and thereby afford a protecting means for the folding edge as well as protecting the body of the box.

Extending entirely around the box and along the battens are metallic bands 6. The

bands are connected to the battens by nails 7, and at the folding edges of the box or at each end of the battens the strips are corrugated thereby forming a yielding portion at certain intervals throughout the entire length of the band. The corrugated portion provides for the necessary expansion at the hinge point of the strapping or band, and when the box is folded into shape the corrugations will straighten out to a certain extent, but as it is impossible to pull the band into the same smooth condition as previous to creating the corrugations the corrugated portion will act as a hinge or great binding or pulling power holding the battens tight together in perfect alinement and affording additional security to the horizontal strips.

The nails 7 which connect the band to the battens pass through the mat or body of the box for holding the body in proper position in the grooves 1. The nails also pass through the strips 5 forming a fastening between the band-strips and battens. The bands 6 will be secured or connected to the battens before the box is folded into shape, and as the battens are folded at right-angles to each other in folding the box into proper shape, the battens will be bent at right-angles to each other and the band will have a tendency to bind the corner or folding edge construction together. This form of connecting the battens together is superior to the usual manner of binding the battens of a box together. Means is provided at the folding edge of the box for making a superior hinge connection which will bind the ends of the battens tighter together than could be done by the use of the ordinary binding band.

It is evident that more or less slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to be limited to the exact construction herein set forth, but:—

Having fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A box comprising a body and ends, and a binding strip connected to the box extensible at the edges of the box.

2. A box comprising a body and ends, battens for retaining the ends and body in position, and a binding means connected to

the box extensible at the folding edges of the box.

3. A box comprising a body and ends, battens for retaining the body and ends in position, and means extending across the body connecting the battens on each side of the box together.

4. A box comprising a body and ends, battens for retaining the body and ends in position, horizontal strips connecting the ends of the battens together at the edges of the box and a binding means connected to the battens extensible at the ends of the battens.

5. A box comprising a body and ends, battens having grooves on two faces thereof one of the grooves for the reception of the ends of the box and the other groove for the reception of the body, horizontal strips connected to the ends of the battens, and a binding

band, connected to the box yieldable at the edges of the box.

6. A box comprising a body and ends and a binding strip connected to the box having corrugations formed therein at the edges of the box to permit of the extension of the strip.

7. A box comprising a body and ends, battens for retaining the body and ends in position, horizontal strips connecting the battens together and binding strips mounted on the box provided with corrugations at the edges of the box to permit of the extension of the strips.

In testimony whereof I affix my signature, in the presence of two witnesses.

HARRISON B. WALTER.

Witnesses:

OLIVER D. MANN,
PHILIP B. VOORHEES.