

No. 663,134.

Patented Dec. 4, 1900.

G. E. SIMON.
PAPER BOX.

(Application filed Apr. 8, 1899.)

(No Model.)

Fig. 1.

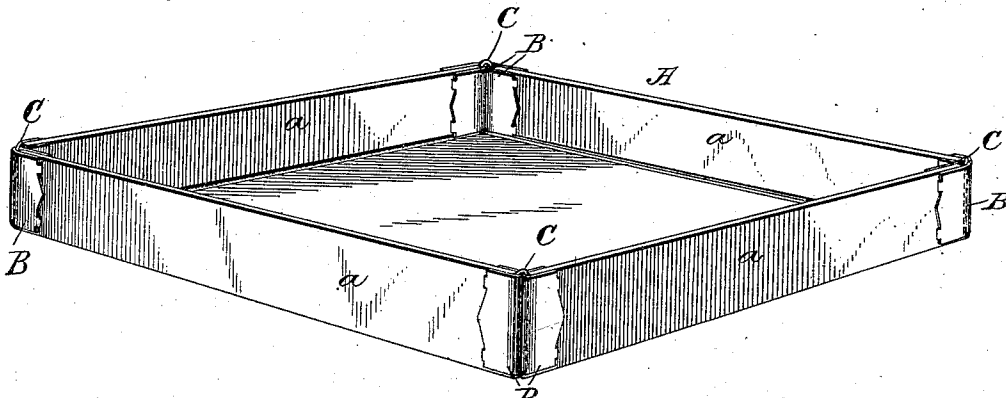


Fig. 2.

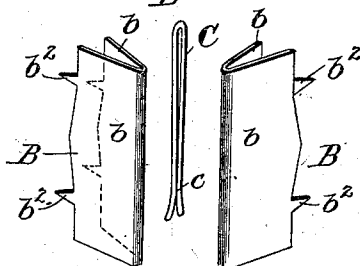


Fig. 3.

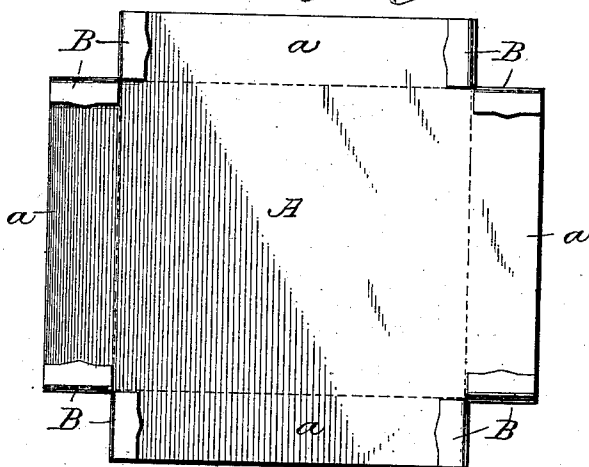


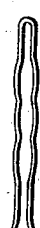
Fig. 4.



Fig. 6.



Fig. 5.



Witnesses
John D. Kiel
Bessie Shadbolt

Inventor
George E. Simon
by Edward Rector
his Attorney

UNITED STATES PATENT OFFICE.

GEORGE E. SIMON, OF ANDERSON, INDIANA, ASSIGNOR TO THE J. W. SEFTON MANUFACTURING COMPANY, OF SAME PLACE AND CHICAGO, ILLINOIS.

PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 663,134, dated December 4, 1900.

Application filed April 8, 1899. Serial No. 712,296. (No model.)

To all whom it may concern:

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

My invention relates to that class of paper boxes which are intended to be stored and shipped in flat blank form and then folded into and secured in box form when desired for use; and it consists in the provision of novel means for securing the folded blank in box form, all as will be hereinafter set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of a shallow box or box-lid embodying my invention; Fig. 2, a perspective view of the devices employed at each of the four corners of the box for securing the sides of the box together at such corners; Fig. 3, a view of the flat box-blank provided at its corners with the socket members of the corner-fasteners; and Figs. 4, 5, and 6, detail views in different forms of the staple members of such corner-fasteners.

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

My invention is more particularly designed for and applicable to box-lids, since in a large class of boxes the lids are relied upon to hold the bodies of the boxes in box form, the present practice being to store and ship the box-bodies in flat blank form, but to make up the lids complete at the factory. Under this practice the bodies of the boxes may be stored and shipped in very compact form; but the lids, being made up complete at the factory, cannot be stored or shipped in flat form, and if it be attempted to "nest" them in storage and shipment they become flared more or less, according to the degree of nesting, and consequently do not snugly fit the bodies of the boxes when put into use.

It is the object of my invention to permit

the lids, as well as the bodies of the boxes, to be shipped from the factory and carried in stock in flat form and be readily folded to and secured in lid form when desired for use.

Fig. 3 shows the flat blank for a square box-lid composed of the top portion A and the four sides *a*, which latter when bent upward at right angles to the part A abut together at the four corners of the latter, as in Fig. 1. Secured to each of the four sides *a* is what may be termed the "socket" member B of the fastening devices for the four corners of the box or lid. In the present instance each of these members B consists of a piece of tin or other sheet metal bent upon itself to form two leaves *b b*, adapted to fit over and embrace the ends of the sides *a a* and provided with prongs or teeth *b²*, adapted to pass into or through and be clenched upon the side *a*. These members B are not fitted tightly against the end edges of the sides *a*; but, on the contrary, a slight space is left between the end edge of the side and the middle bend of the member B, so that there is formed between the latter and the end edge of the side *a* a socket adapted to receive one prong of a coupling member or staple C. When the sides of the box or lid are bent up to the position shown in Fig. 1, these staples C are inserted at the four corners of the box and pushed downward into the sockets formed by the members B and serve to couple the sides of the box together and secure it in box or lid form, as in Fig. 1. In this manner and by these means the box or lid blanks may be stored and shipped in the flat form shown in Fig. 3 and be readily converted into and secured in box or lid form by the use of the coupling members or staples C, as will be readily understood. The particular form of the staples or coupling members is immaterial, providing they serve the purpose above described, and I have shown several slightly-differing forms in Figs. 2, 4, 5, and 6.

While I have described my invention as applied to paper boxes or box-lids, and while it is broadly applicable to boxes and lids made of paper, (especially corrugated paper,) it will

be understood that the novelty of my invention does not relate to the material of which the box or lid may be composed, and that consequently the scope of my invention is not limited thereto.

5 Having thus fully described my invention, I claim—

1. The herein-described box comprising a blank A having sides a, a , and corner-securing means for the sides a, a , consisting of
10 metal plates B having securing-prongs b^2 , said plates being bent over the ends of the sides against the inner and outer faces thereof and secured by said prongs which pass
15 through the sides, said plates forming loops at the ends of the sides, and substantially U-

shaped coupling-pins each leg of which enters one loop, substantially as described.

2. The herein-described corner-fastener for boxes and box-lids, consisting of two bent
20 plates B having securing-prongs b^2 and adapted to embrace the inner and outer faces of the end of the box or box-lid side and form loops projecting beyond the ends of the sides, and a
25 U-shaped coupling-pin C each leg of which is adapted to enter one loop, substantially as described.

GEORGE E. SIMON.

Witnesses:

EVERETTE HANNAH,
D. H. DURBIN.