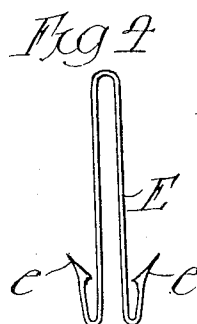
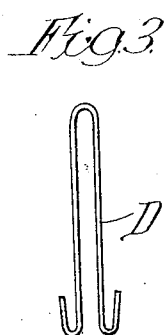
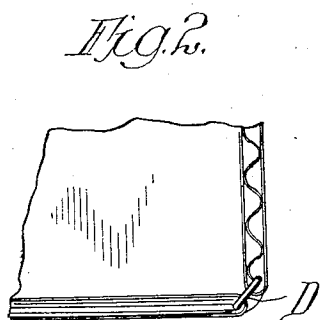
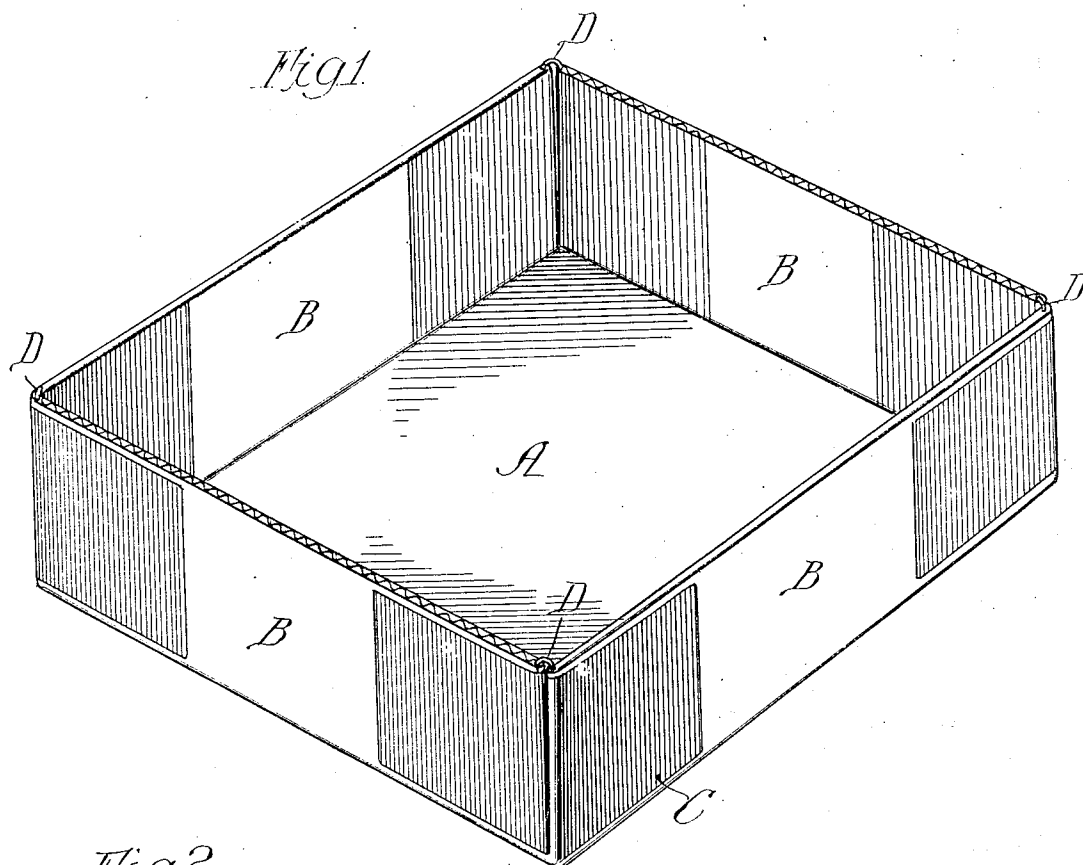


J. T. FERRES.
FOLDING BOX.
APPLICATION FILED APR. 9, 1906.



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UNITED STATES PATENT OFFICE.

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FOLDING BOX.

No. 869,833.

Specification of Letters Patent.

Patented Oct. 29, 1907.

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To all whom it may concern:

Be it known that I, JEFFREY T. FERRES, a citizen of the United States, residing at Anderson, county of Madison, and State of Indiana, have invented certain new and useful Improvements in Folding Boxes, of which the following is a specification.

My invention relates to improvements in folding boxes and the object thereof is to provide a suitable and efficient construction of lid or cover for a box, which cover is so constructed that it may be shipped in flat or collapsed form, but be readily set up for use by the consumer or user, the resulting cover being securely held or locked together at its corners in a novel and advantageous manner.

15 In the drawings Figure 1 is a perspective of a box lid or cover embodying my invention; Fig. 2 a plan view of a portion of one of the corners of such cover; Fig. 3 an elevation of one of the corner fasteners or staples; and Fig. 4 an elevation of a modified construction of fastener or staple.

Referring to the present embodiment of my invention, in which double-faced corrugated board is employed as the material of which the lid is formed, such lid comprises the cover proper marked A and the four flaps marked B hinged thereto in the usual manner, said cover proper and the flaps being of suitable dimensions.

The opposite ends of each of the flaps B are provided with tapes C which are secured on opposite sides of such flaps and extend but part way of the length thereof. As clearly shown in Figs. 1 and 2, these tapes extend continuously around the opposite ends or edges of the flaps and serve not only to bind and strengthen such ends and edges of the flaps, but also to form, in connection with the staples or fasteners hereinafter described, means for securely holding or binding the flaps of the cover into set-up position ready for use.

In practice, the covers are shipped to the customer or consumer in the flat or collapsed form and the same are assembled or set up ready for use by folding up the flaps and then inserting at each corner a fastener or staple, such as the staple illustrated in Fig. 3, where such staple is shown as a continuous piece of wire D bent upon itself at its middle to form two parallel members and preferably having its free ends outwardly and reversely bent. The free ends and parallel members of the staple are inserted into the adjoining or meeting ends of two contiguous flaps in such manner as to engage within the loop portion of the tapes where they extend around the edges or ends of the flaps. In two of the four flaps of the box the corrugations run longitudinally of such flaps while in the other two the corru-

gations run transversely, with the result that in respect to the flaps having the transverse corrugations one parallel member of the staples is inserted into the corrugations lengthwise thereof, while the other member thereof is inserted crosswise of the corrugations of the two opposite sides in which the corrugations run longitudinally.

As hereinbefore stated, the free ends of each staple are preferably reversely bent as indicated in Fig. 3, so as not only to facilitate the insertion of such staples in place, but also to retard the withdrawal of the staples. However, if desired the staple may be made of such form as to absolutely prevent its withdrawal without interfering with the facility of its insertion. To this end, the staple may be of the form shown in Fig. 4, wherein such staple E is shown as provided with fish hook shaped ends *e* which, in obvious manner will engage the body of the flaps in such a way as to prevent withdrawal of the staple. The use of tapes in the manner and for the purpose hereinbefore described results in a number of advantages over the use of tin corners, chief among which advantages may be named first, the increase of the surface of attachment of such tapes as compared with tin corners, second, the flexibility of the tapes which will prevent the bursting or destruction of the cover, such as results from a hard blow on a corner when tin corners are employed, and third, injury to the hands in handling boxes with covers embodying my invention is prevented, the tin corners being objectionable because they present edges which are sharp and are liable to cut the hands if care is not used in handling the boxes.

I claim:

1. A box cover comprising a cover proper, flaps hinged thereto, tapes secured to opposite sides of the flaps and extending around the ends thereof, said cover and flaps being formed of double faced corrugated paper board, whose corrugations in two opposite flaps extend transversely and in the other two flaps extend longitudinally, and staples having parallel members insertible in the loops of adjacent tapes, one member of each staple extending lengthwise of the corrugations as to two of the flaps and the other member crosswise of the corrugations as to the other two flaps; substantially as described.

2. A box cover comprising a cover proper formed of double faced corrugated paper board, flaps hinged thereto and also formed of board, fabric tapes passing around the ends of the flaps and secured to the facing strips on opposite sides of the board, and loop-shaped staples having parallel members insertible in the loop of adjacent tapes and in the corrugated portion of the board and between the facing portion thereof.

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