

No. 840,814.

PATENTED JAN. 8, 1907.

H. L. R. WOLF.
PAPER BOX.

APPLICATION FILED AUG. 18, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

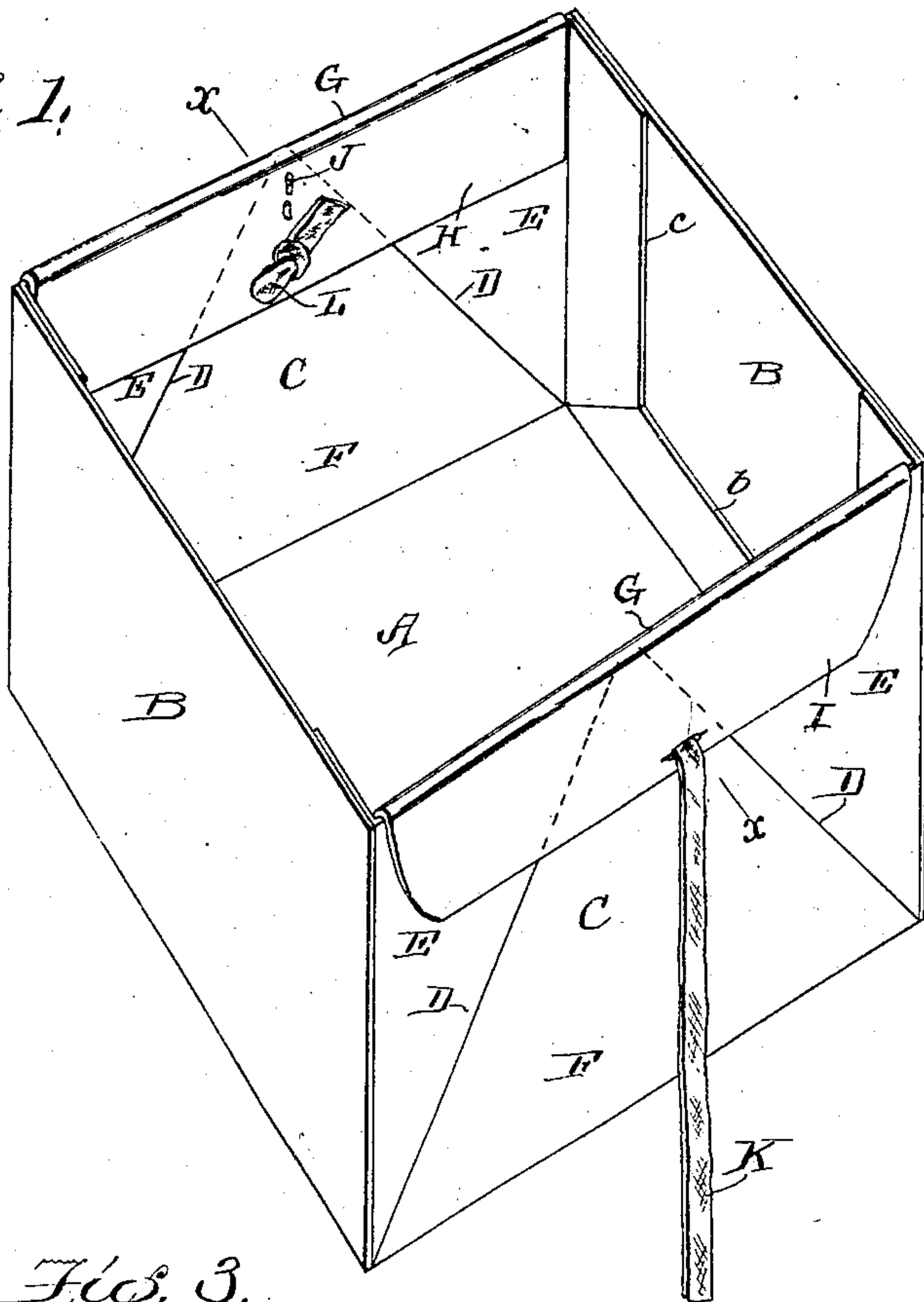


Fig. 2.

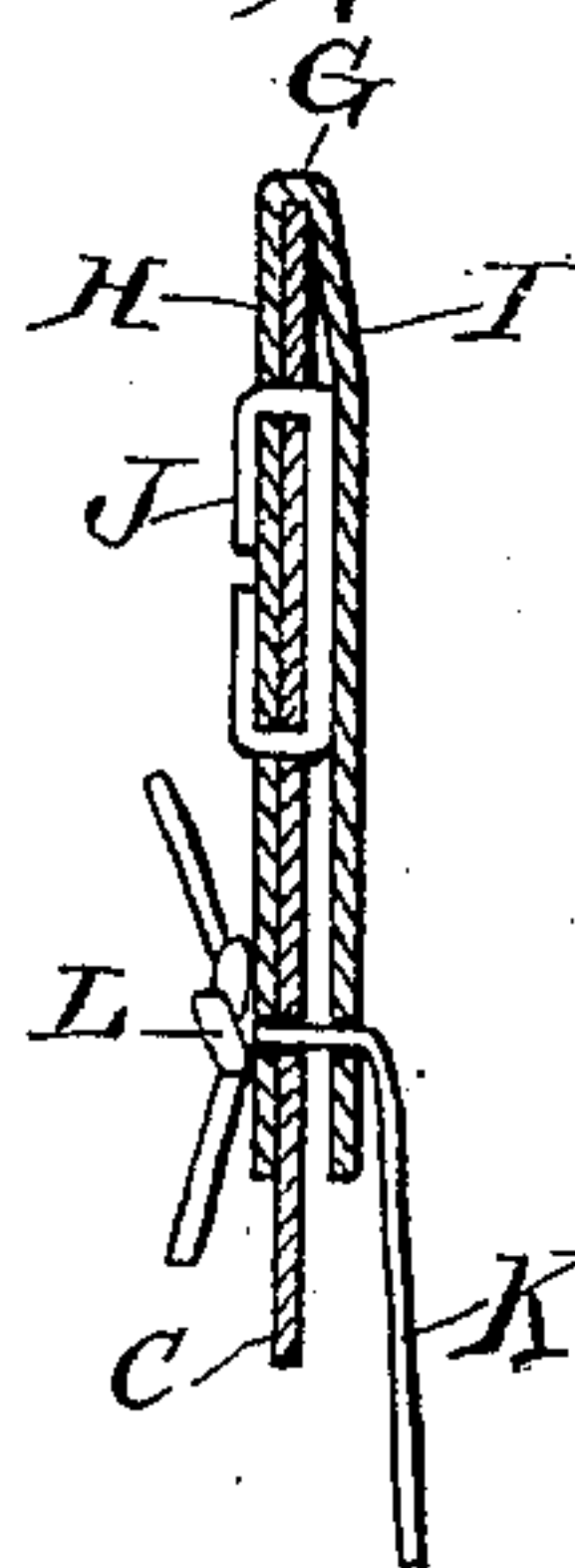
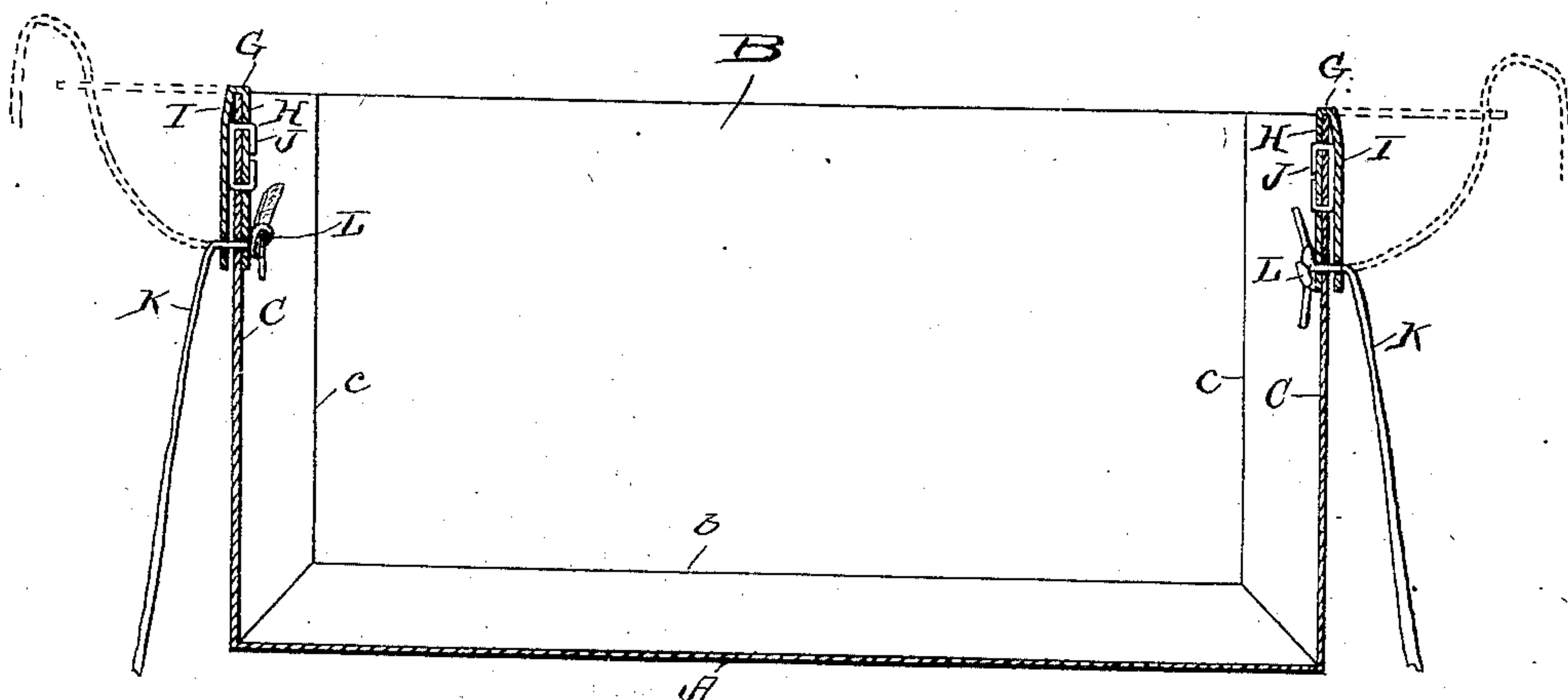


Fig. 3.



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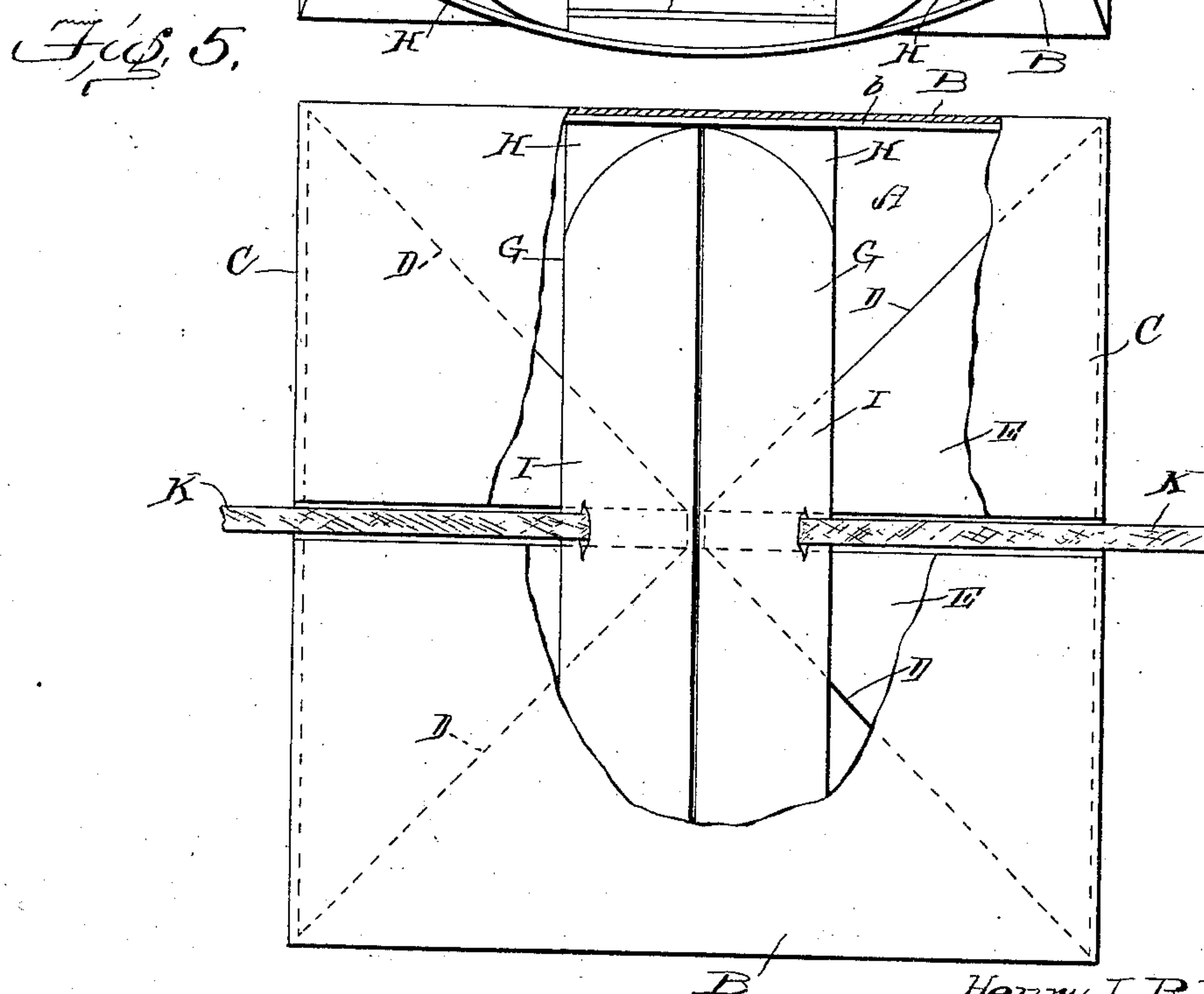
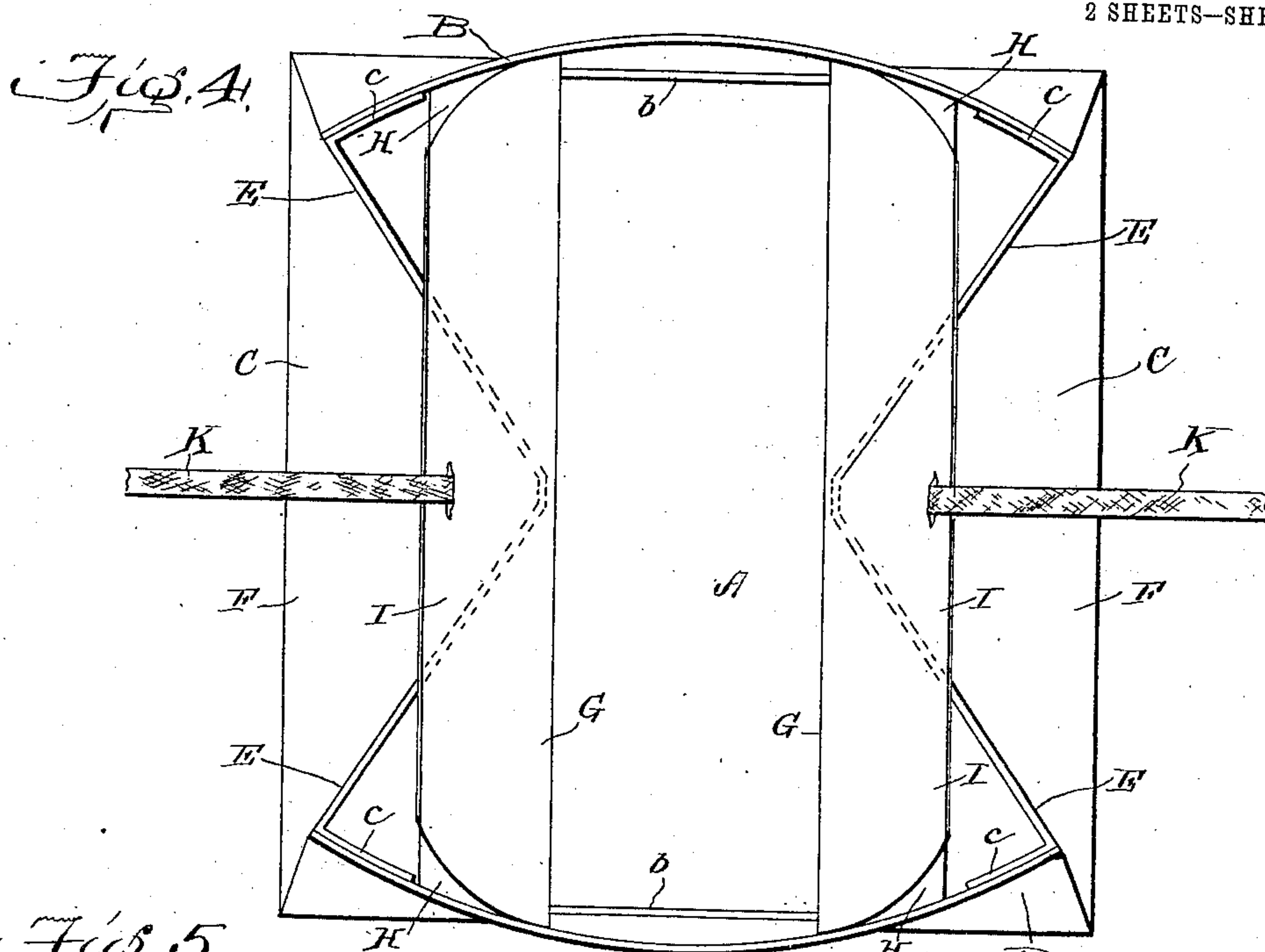
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2 SHEETS—SHEET 2.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

HENRY L. R. WOLF, OF DAYTON, OHIO, ASSIGNOR TO THE AULL BROTHERS PAPER AND BOX COMPANY, OF DAYTON, OHIO, A CORPORATION OF OHIO.

PAPER BOX.

No. 840,814.

Specification of Letters Patent.

Patented Jan. 8, 1907.

Application filed August 18, 1905. Serial No. 274,654.

To all whom it may concern:

Be it known that I, HENRY L. R. WOLF, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Paper Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to improvements in paper boxes designed particularly for the use of milliners and hat-dealers. The box is of the collapsible variety, so that it can be readily knocked down into flat form for ship-
15 ment.

My improvements relate to a special feature—to wit, to reinforcing the foldable sides by means of a supplemental strip secured to such sides and adapted to embrace both
20 the inner and outer faces thereof when the box is set up and to free such sides when the box is being knocked down—all as herein-after more fully described, and particularly pointed out in the claim.

25 In the accompanying drawings, forming a part of this specification, and on which like reference-letters indicate corresponding parts, Figure 1 is a perspective view of a box embodying my improvements. Fig. 2 is a detail sectional view through one of the fold-
30 able sides, showing my supplemental strip in position to embrace the side. Fig. 3 is a vertical sectional view of a box and of my supplemental strips, taken on the line $x\ x$ of Fig. 1, showing the supplemental strips by full lines in reinforcing position and by dotted lines in the preliminary position. Fig. 4 is
35 a plan view of the box and my strips in a partially-collapsed position of the parts; and Fig. 5 is another plan view with the parts wholly collapsed and the box knocked down, a portion of two of the sides being broken
40 away to expose the position of my strips.

The letter A designates the bottom of a
45 hat-box, the letter B two opposite sides thereof, and the letter C the other two opposite sides. These sides are secured to each other at the corners and to the bottom in any convenient or approved manner, but preferably
50 by lapping the edge of the bottom against the sides B, as shown at *b*, and by forming the sides C in one piece with the bottom A, while the edges or margins of the sides C are

lapped over the sides B, as shown at *c*. In order that the box may collapse or be capable
55 of being knocked down, the sides C are creased along the lines D in an oblique direction, whereby these sides may be pushed inward and toward each other, the triangular
60 portions E lapping down over the central triangular portion F in the act of folding, as more clearly suggested in Fig. 4, and the sides B finally coming down upon the sides C, as also upon the supplemental strips, as will
65 presently appear. These strips are designated G and are composed each of an inner portion H and an outer portion I. The inner portion is secured to the side C by a suitable fastening—say a staple J, clenched at its
70 ends to secure the parts. The fastening is located near the middle of the length of the strip, so that when the side C begins to fold on itself along the lines D the ends of the strip will be free and the strips will maintain
75 a straight position while the sides are bending, as shown in Fig. 4. Thus the supplemental strips will not interfere with the collapsing of the box. Their function comes
80 into play when the box is set up and it is desired to secure the sides C against the tendency to collapse or sway inward by bending along their lines D. To accomplish this, the
85 tape or cord K is drawn tightly, as indicated in Figs. 2 and 3, and the outer portion of the strip is brought down, say, from the dotted position shown in Fig. 3 to the position shown
90 in full lines in Fig. 3 and in Fig. 2. The tape or cord is passed through the portion I of the strip, as also through the sides C and the portion H of the strip, and is secured from slipping through by a knot or other means, as
95 suggested at L. Thus by drawing down on the tape or cord K the supplemental strips will be made to tightly embrace the outer and inner surfaces of the sides C and will hold
100 them from sagging or bending inward, will make them staunch and strong, and will add stiffness generally to the whole box. My invention consists in the scheme of these supplemental strips, and it will be understood
105 that they may be applied to boxes other than the one shown and described.

When the box is to be collapsed, the portions I of the supplemental strips are lifted to the position shown by the dotted lines in
110 Fig. 3, and then when the box is set up a

downward pull on the tape or cord will draw the outer portions of the strips to the position already described and clearly shown in Figs. 2 and 3.

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

The combination, with a foldable box having two opposite sides creased to fold inward
10 and upon themselves, of supplemental strips formed separate from the sides of said box and composed of inner and outer portions, the inner portion of each strip secured near its middle to the inner face of one such side
15 of the box and lying beneath the same when in its folded position, and the outer portion,

of less length than the end of said box, free to stand out from the side and to be drawn down against the outer face thereof when in its upright position and to fold down upon
20 such side and between the ends of said box when said side is in its folded position, and a tape or cord to draw and hold such outer portion down to such side, substantially as described.
25

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

HENRY L. R. WOLF.

Witnesses:

JOHN M. NUTT,
C. H. BALDWIN.