

No. 715,442.

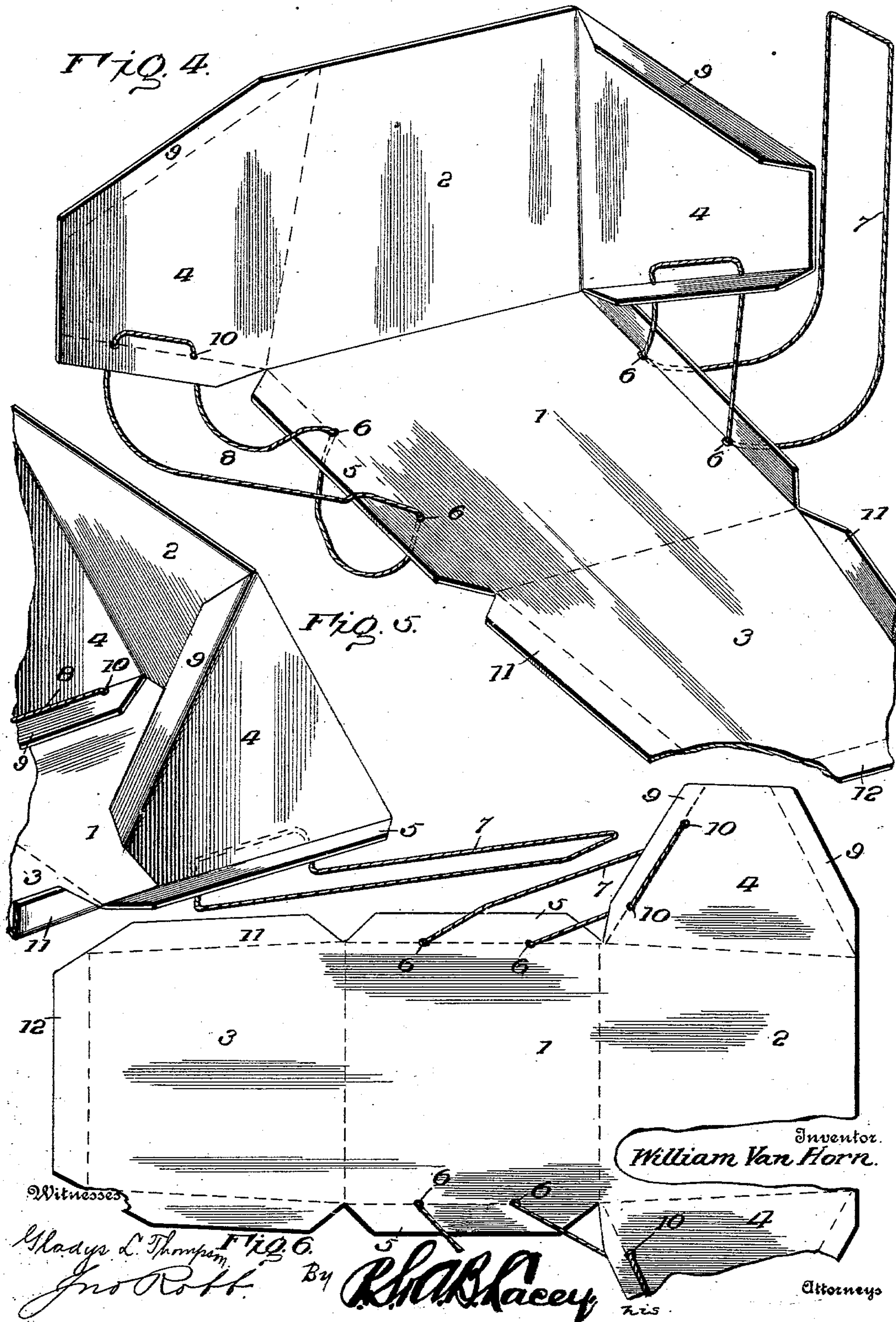
Patented Dec. 9, 1902.

W. VAN HORN.
FOLDING BOX.

Application filed May 10, 1902.

(No Model.)

2 Sheets—Sheet 2.



Witnesses

Gladys L. Thompson
Jno Rott.

Fig. 6.

By

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his

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UNITED STATES PATENT OFFICE.

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FOLDING BOX.

SPECIFICATION forming part of Letters Patent No. 715,442, dated December 9, 1902.

Application filed May 10, 1902. Serial No. 106,746. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM VAN HORN, a citizen of the United States, residing at Piqua, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Folding Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention provides a collapsible and foldable box, package, or wrapper of novel construction, chiefly designed for milliners' use in the safe handling of hats, bonnets, and like articles of ladies' and misses' wear requiring careful handling in order to obviate irreparable injury thereto.

The box or package is preferably constructed of a single blank of sheet material, such as cardboard or stiff paper, cut into the shape substantially as shown and adapted to be folded on the lines indicated.

The invention consists, essentially, of the novel formation of the blank, the peculiar structural details, and the combinations of the parts, which hereinafter will be more particularly set forth, illustrated, and finally claimed.

In the accompanying drawings, forming a part of the specification, Figure 1 is a perspective view of the box, package, or wrapper as it appears when completed and in condition for service. Fig. 2 is a transverse section thereof about on the line X X of Fig. 3, looking to the right, as indicated by the arrow. Fig. 3 is a section of the complete box about on the line Y Y of Fig. 2. Fig. 4 is a perspective view of the blank having the back and one end partly folded. Fig. 5 is a perspective view showing the back and the two end pieces properly folded, portions of the front, bottom, and remote end being broken away. Fig. 6 is a plan view of the blank, parts being broken away.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The box, package, wrapper, or the like may be of any size and constructed of any selected sheet material best adapted for the particular

use for which the article is designed and in its general appearance is approximately of pyramidal form.

The box comprises a bottom or base 1, back 2, front 3, end pieces 4, and a series of flaps at the edges of the parts 1, 3, and 4, substantially as shown and hereinafter more particularly referred to.

The bottom or base 1 is a quadrangle and is provided at opposite edges with flaps 5, adapted to be bent upward about at a right angle, so as to embrace the lower edges of the end pieces 4. These flaps 5 stiffen the bottom and assist materially in preserving the shape of the box and maintaining a close joint between the bottom and the end pieces. Openings 6 are formed in the edge portions of the bottom or base 1 adjacent to the crease or line of fold of the flaps 5, and looped cords 7 and 8 pass therethrough, the loop 7 being longer than the loop 8, so as to form a handle, as clearly indicated in Figs. 1, 2, and 3.

The back 2 is a trapezoid, and the end pieces 4 project from opposite edges thereof and are approximately of triangular form. Flaps 9 are located at opposite edges of the end pieces 4 and are adapted to fold inward on the lines indicated, so as to come within the box and be out of the way. These flaps 9 stiffen and strengthen the end pieces and materially assist in preserving the shape of the box when set up. Openings 10 are provided in the edges of the end pieces 4 adjacent to the bottom or base 1 and correspond in position with the openings 6, so as to register therewith when the box is set up, as clearly indicated in Figs. 1 and 3. The looped cords 7 and 8 pass through the openings 10, one end of the loop coming on the inside of each of the end pieces 4, so as to lie in the angle formed between the end piece and the lower flap when the latter is folded.

The front 3 is a trapezoid and corresponds in size to the back 2 and is provided with side flaps 11 and an end flap 12, the side flaps 11 being adapted to embrace the end pieces of the box, as shown most clearly in Figs. 1 and 3, and the end flap 12 being adapted to fold over the top edge of the back 2, as shown most clearly in Figs. 1 and 2, so as to prevent the formation of a space between the

upper ends of the front and back and at the same time to stiffen and brace the ridge or crest of the box.

The lines of fold between the several sides and flaps may be creased or provided in any accustomed way so as to insure the proper and ready fold of the several parts when setting up the box, thereby avoiding all possible vexation and annoyance tending to arise from such source. The box-blanks may be piled one upon the other and conveniently stored until required for use, when the box may be quickly set up by folding the several flaps and sides on the predetermined lines. When the end pieces and back have been folded, an outward pull upon the outer ends of the looped cords 7 and 8 will draw the lower edges of the end pieces 4 close against the outer edges of the bottom or base 1, and after the article to be protected has been placed in the box the front is folded so as to close the open side of the box, and the latter is made secure by passing the outer end of the loop 7 through the end of the loop 8, the side portions of the respective loops embracing opposite sides of the corner portions of the box, as clearly indicated in Fig. 1. After the loops have been tightened the flaps 5, 11, and 12

are held close against proximal sides of the box, and the projecting portion of the loop 7 may be used as a handle for carrying the box or may be secured in any manner found most convenient and suggesting itself to the user so as to prevent loosening and opening of the box or package when laid aside with the hat, bonnet, or other article placed therein.

Having thus described the invention, what is claimed as new is—

The herein-described box comprising a quadrangular bottom having opposite flaps, a trapezoidal front and back at corresponding edges of the said bottom, the front having flaps at opposite edges and its outer ends, triangular-shaped end pieces at opposite edges of the back and provided with flaps at opposite edges, and looped cords passed through corresponding openings in proximal edges of the bottom and end pieces and adapted to draw said edges together and to confine the sides of the box, substantially as set forth.

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

WILLIAM VAN HORN. [L. S.]

Witnesses:

C. B. JAMISON,
GEO. E. LEE.