(No Model.)

G. W. HART.

FOLDING BOX.

No. 590,394. Patented Sept. 21, 1897.

Fig. 1.

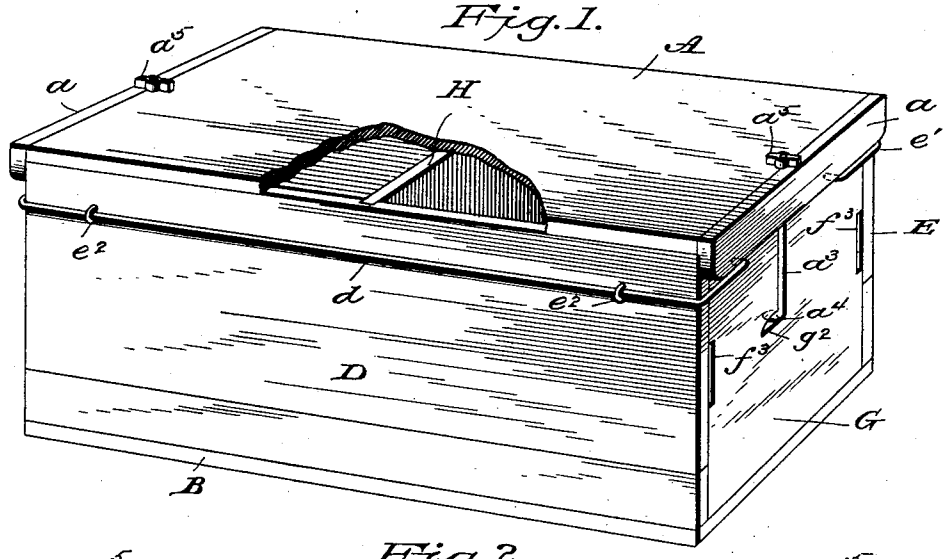


Fig. 2.

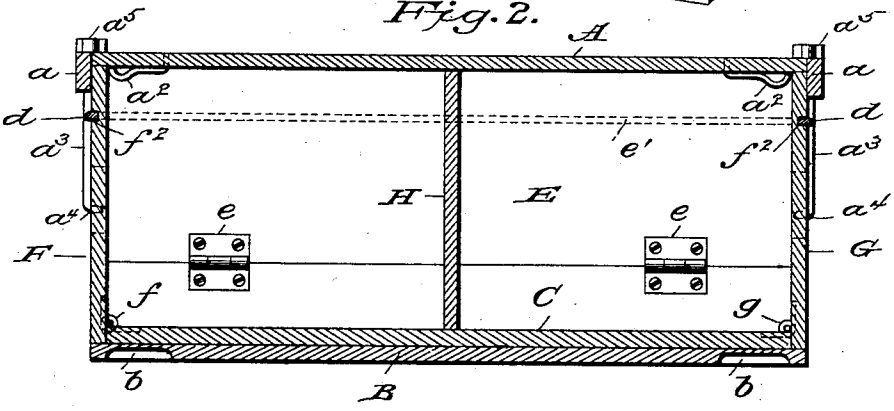


Fig. 3.

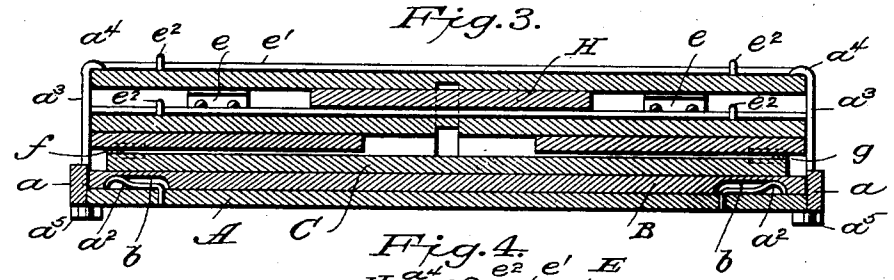
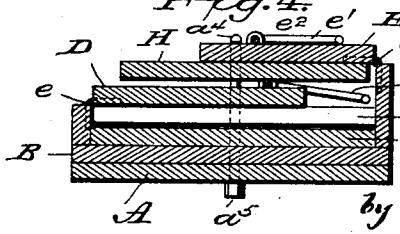


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE W. HART, OF NATIONAL MILITARY HOME, KANSAS.

FOLDING BOX.

SPECIFICATION forming part of Letters Patent No. 590,394, dated September 21, 1897.

Application filed May 7, 1897. Serial No. 635,561. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. HART, a citizen of the United States of America, residing at National Military Home, in the county of Leavenworth and State of Kansas, 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to folding boxes or crates.

The object is to provide a collapsible box which is made up of but a few parts which are capable of being assembled in such manner as to provide an efficient, durable, cheap, and thoroughly reliable box for transporting merchandise—as eggs, fowl, fruit, vegetables, &c.—and one that when folded up will occupy but small space.

With these objects in view the invention consists in the novel construction and combination of parts in a folding box, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like letters of reference indicate corresponding parts, I have illustrated one form of embodiment of my invention, although it is to be understood that other forms of embodiment thereof may be employed without departing from the spirit of the same, and in the drawings—

Figure 1 is a view in perspective, partly in section, showing the box set up for use. Fig. 2 is a view in sectional elevation, showing certain parts of the structure concealed in Fig. 1. Fig. 3 is a view in longitudinal section, displaying the box folded up for transportation or storage. Fig. 4 is a view in transverse section, displaying the box folded up and showing the disposition of certain parts not clearly shown in Fig. 3.

Referring to the drawings, A designates the lid of the box; B, the bottom proper; C, a false bottom; D and E, respectively, the two sides, and F and G, respectively, the two ends. The lid is in this instance of the same size as the box proper and is provided at its two ends with cleats a, against which the ends of the box will bear when the same is set up for use, and thus be prevented from falling outward, stops a^2 on the under side of the lid preventing the ends from falling inward, as will be understood by reference to Fig. 2. The lower edge of each of these ends is secured to the false bottom C by hinges f and g, respectively, and in order that the outer surfaces of the ends may lie flush with the ends of the bottom B the false bottom is as much shorter than the bottom B as the thickness of these ends F and G.

The sides D and E are each made in two pieces hinged together, as by hinges e, the lower edges of the sides being rigid with the bottom B. The lower section of the side D is narrower than the corresponding section of the side E in order to allow the sides to be folded inward and rest one upon the other, as shown in Fig. 4. In order to hold the sides D and E from falling outward, bails d e' are employed, which are held in position by keepers, as e^2, and are bent inward at their ends to enter recesses, as f^2, provided in the ends F and G, as shown in Fig. 2. When the parts are assembled as shown in Fig. 1, clamping-bolts a^3 are employed to lock the lid in place. These bolts are each provided with a toe a^4 to engage a recess, as g^2, provided in the ends F and G, the upper portion of each bolt passing through an opening in the lid, securely locked in place by a thumb-nut a^5.

When the box is to be used for shipping eggs, a partition H may be employed, and when used for shipping fruit or poultry the box may be made of slats.

When the box is to be knocked down for transportation, the lid is first removed and laid flat, with the side that was uppermost underneath. This will leave the stops a^2 projecting upward, and in order to prevent any injury thereto the bottom B is provided with recesses b, in which these stops will be housed. The ends are now folded in, then the side D. Then the partition H is laid upon this side. Then the side E is folded in, and finally the bolts are secured in place to hold the parts folded assembled to avoid interference between the hinges e of the sides and the ends F and G. These latter are provided with re-

cesses f^3, as shown in Fig. 1, which will allow the ends to pass the said hinges in an obvious manner.

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

A folding box comprising a bottom having recesses in its under side, a false bottom shorter than, and secured to the said bottom, sides secured to the bottom proper consisting each of two sections hinged together, ends also hinged to the bottom proper, a partition dividing the box into compartments, and a lid provided with cleats, in combination with stops carried by the lid and bearing against the inner sides of the ends, bails carried by the sides and having their ends engaging recesses in the ends, clamping-bolts passing through the lid and having toes engaging recesses in the ends and nuts screwed onto the ends of the bolts and bearing on the lid substantially as described.

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

GEORGE W. HART.

Witnesses:
JACOB H. JOHNSON,
F. K. NOYES.