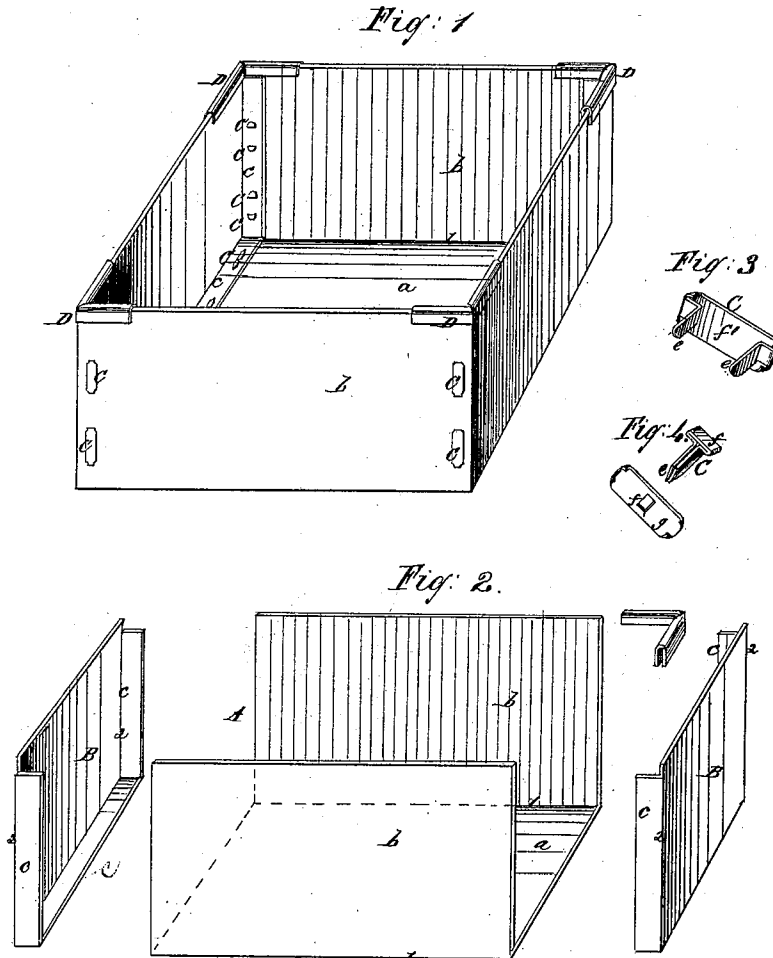


H. MANNECK.  
BOX.

No. 111,463.

Patented Jan. 31, 1871.



Witnesses:  
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# United States Patent Office.

HENRY MANNECK, OF NEW YORK, N. Y.

Letters Patent No. 111,463, dated January 31, 1871.

## IMPROVEMENT IN BOXES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HENRY MANNECK, of the city, county, and State of New York, have invented a new and Improved Box for holding light articles of merchandise; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

This invention relates to a new and useful improvement in boxes, such as are used by dry-goods merchants, milliners, &c., for holding goods, which, when required to be shown for inspection, are taken from the shelves, removed from the box, and placed on the counter; such, for instance, as gloves, hosiery, handkerchiefs, &c.

The invention has for its object economy in the transportation of such boxes; and

It consists in a novel construction of the same, as hereinafter fully shown and described, whereby they are rendered capable of being folded and packed within a limited compass, thereby reducing the measurement, and consequently the freight, as well, also, as reducing the risk of injury.

The invention is more especially designed for pasteboard boxes, but is applicable to thin or light board boxes.

In the accompanying drawing—

Figure 1 is a perspective view of my invention adjusted ready for use.

Figure 2, a perspective view of the same in an unclamped state.

Figures 3 and 4, detached views of metallic clamps pertaining to the same.

Similar letters of reference indicate corresponding parts in the several figures.

The body of each box, not including the cover, is comprised of three pieces, one piece, A, composing the bottom *a* and two opposite sides *b b*. The other pieces comprise the ends B B of the box.

The piece A is cut nearly through the pasteboard, as indicated by the lines 1 1 in fig. 2, and said cuts have strips of muslin, or other suitable fabric, pasted over them at the exterior, to give proper strength and admit of the sides *b b* being turned up to a vertical position.

The ends B B are also cut, as indicated by the lines 2 2, to admit of flanges *c c* being formed to fit within the sides *b b*, the flanges *c c* and sides *b b* being firmly secured together by metallic clamps C, shown in figs. 3 and 4 detached.

These clamps are constructed of sheet metal, cut and doubled in such a manner as to form a main portion, *e*, and a head, *f*.

The simplest form of clamp is shown in fig. 3, and in those cases where a very broad head, *f*, may be required, the main portion *e* may be passed through a slotted plate, *g*.

Another form of clamp is shown in fig. 4, having a broad head, *f*, and two main portions *e e* extending from it, one near each end.

The main portions *e* are, in both instances, bent or clinched at the inner side of the box.

In order to prevent the bulging out of the sides of the box under too great a pressure from within, a result which may be caused by crowding a large quantity of goods within it, I employ metallic corner pieces, D, constructed of sheet metal swaged in right angular form and cut at the inner sides of the angles, as shown at 2. These corner pieces are fitted over the tops of the sides and ends of the box, and effectually prevent the contingency above alluded to, (see fig. 1.)

The cover or lid of the box being comparatively shallow, does not require the corner pieces nor the clamps; they can, at least, be dispensed with.

The advantage of the mode of construction above described is obvious. A box, say, that will measure five or six inches in depth, will, when folded, measure only about an inch or an inch and a quarter, and when packed in quantity may be shipped with much less risk of injury or breakage than when fully completed ready for use in the old and well-known way.

I design to ship my boxes in a fully completed state, with the exception of the securing of the sides and ends together by means of the metal clamps and corners.

These are to be sent with the boxes, the latter being in a folded state, and when the boxes are unpacked the clamps may be readily inserted, through the sides and ends, to secure, and the corner pieces adjusted, so as to secure all firmly and properly together.

I am aware that metallic corner pieces substantially the same as mine have been used for a similar purpose, therefore I do not claim these as my invention; but

What I claim as new, and desire to secure by Letters Patent, is—

A sectional folding box, composed of the bottom and sides *a b b* made in one piece, and the ends B B, separately made, with angular portions *e* at the sides and bottom, the parts A B B being secured together at the corners by metallic clamps C and corner pieces D, all constructed and arranged substantially as and for the purposes herein described.

HENRY MANNECK.

Witnesses:

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