No. 657,108. Patented Sept. 4, 1900.

J. H. HARRINGTON.

PACKING BOX.

(Application filed Jan. 21, 1898.)

(No Model.)

Fig. 1,

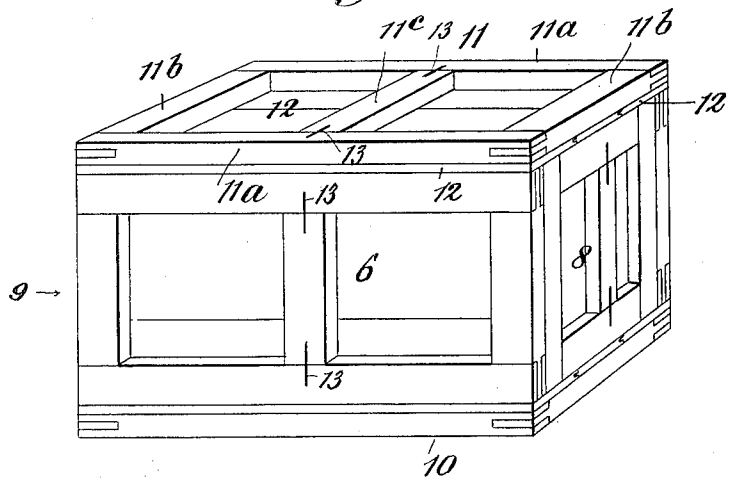


Fig. 2,

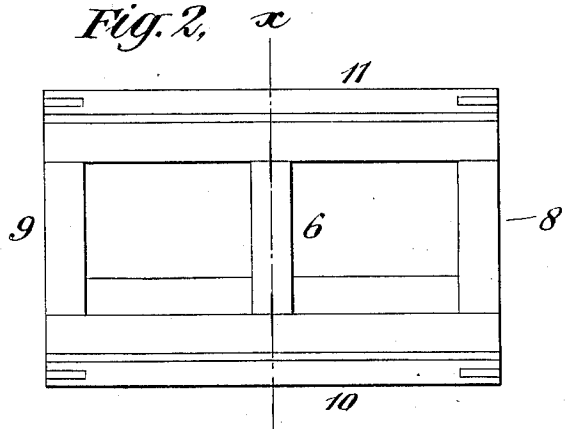


Fig. 3,

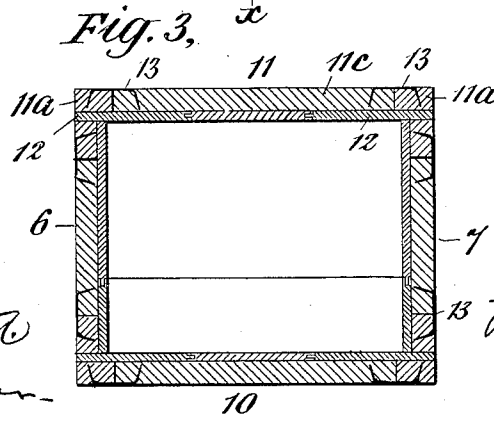
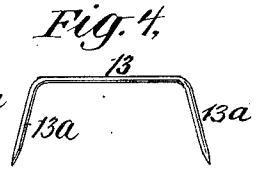


Fig. 4,



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSEPH H. HARRINGTON, OF TROY, NEW YORK.

PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 657,108, dated September 4, 1900.

Application filed January 21, 1898. Serial No. 667,397. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. HARRINGTON, a citizen of the United States, residing at Troy, in the county of Rensselaer, in the State of New York, have invented a new and useful Packing-Box, of which the following is a specification.

One object of my invention is to render the box dust-proof when first made and also to keep the same dust-proof afterward by so constructing it that the parts will not warp or get out of place after it has been in use and subjected to variation of temperature, &c.

Another object of my invention is to combine lightness with strength and rigidity and at the same time to keep down the cost of construction within reasonable commercial limits.

My invention further contemplates an improved form of staple to be used in the construction of the packing-box.

I will now proceed to describe a packing-box embodying my invention, and will then point out the novel features in claims.

Figure 1 is a perspective view of a packing-box embodying my invention. Fig. 2 is a side elevation of same. Fig. 3 is a cross-section of same, the section being taken on the plane of the line x x of Fig. 2. Fig. 4 is a view in detail of a staple employed.

Similar reference characters designate corresponding parts in the several figures.

The drawings show a rectangular box of ordinary contour as far as the general shape is concerned and, as will be seen more particularly by referring to Fig. 3, of smooth or plane interior. The box is made up, as is usual, of two sides 6 7, two ends 8 9, bottom 10, and a top or cover 11. The sides, the ends, the top, and the bottom are each made up separately in the form of a panel and are preferably in construction precisely similar, though in size of course they may vary. To describe one of these panels therefore will be to describe them all.

Numerals 11^a 11^a designate side strips which are provided at their ends with open mortises. 11^b 11^b are end strips having tenons which fit into said mortises, the side strips and end strips thus forming a rectangular frame to which may be secured, as by nailing, facing-boards 12. The said facing-boards are tongued and grooved together, as shown at 12^a, in order that they may fit so closely as to exclude the dust.

11^c designates a brace extending between the two side strips 11^a 11^a. The said brace is secured to the side pieces, preferably by means of a staple 13. (Shown more clearly in detail in Fig. 4.) This staple 13 has a straight or beveled top and two outwardly-flaring tangs 13^a 13^a. These outwardly-flaring tangs will have the effect (when driven into the wood to join the brace to one of the side strips, as shown) of drawing the parts together, thereby insuring a close fit, as well as making a very secure connection. The facing-boards may now conveniently be secured, as by nailing, to the said brace, and thus all the parts constituting a single panel will be securely fastened together.

One of the great troubles to contend with in the use of framing in the construction of packing-boxes is the tendency of the frame to warp and thereby to draw the facing parts apart. By the use of a brace secured in the manner shown and described the framing and facing parts will all be kept securely in their position and dust will be prevented from working through between the joints of the facing-boards.

The several panels constructed as described, constituting the different parts of the box, may be conveniently fastened together, as by nails or screws or in any manner as may be desired.

A box constructed as described will have a maximum of strength with a minimum of lightness, the heavier framing will withstand heavy blows and considerable pressure and protect the light facing-boards. These light facing-boards covering the greater surface will keep down the weight of the box.

What I claim is—

1. A panel constituting a side, an end, top or bottom of a packing-box comprising four strips suitably framed together, facing-boards tongue-and-grooved into each other and fastened to said strips, a brace connecting two of the framing-strips intermediate of their ends, and wire staples having outwardly-flaring tangs said brace being secured to each of the two said strips by means of said staples all substantially as specified.

2. A packing-box having its sides, ends, top and bottom each consisting of a panel comprising four strips suitably framed together, facing-boards tongue-and-grooved into each other and fastened to said strips, a brace connecting two of the framing-strips intermediate of their ends, and wire staples having outwardly-flaring tangs, said brace being secured to each of the two said strips by means of said staples, said sides, ends, top and bottom all adapted to be suitably secured together substantially as specified.

Signed by me at Troy, New York, this 15th day of January, 1898.

JOSEPH H. HARRINGTON.

Witnesses:

CHAS. H. HARRINGTON,

ALBERT BEDELL.