(No Model.)

W. H. BEACH.

PACKING BOX.

No. 333,720. Patented Jan. 5, 1886.

Fig. 1.

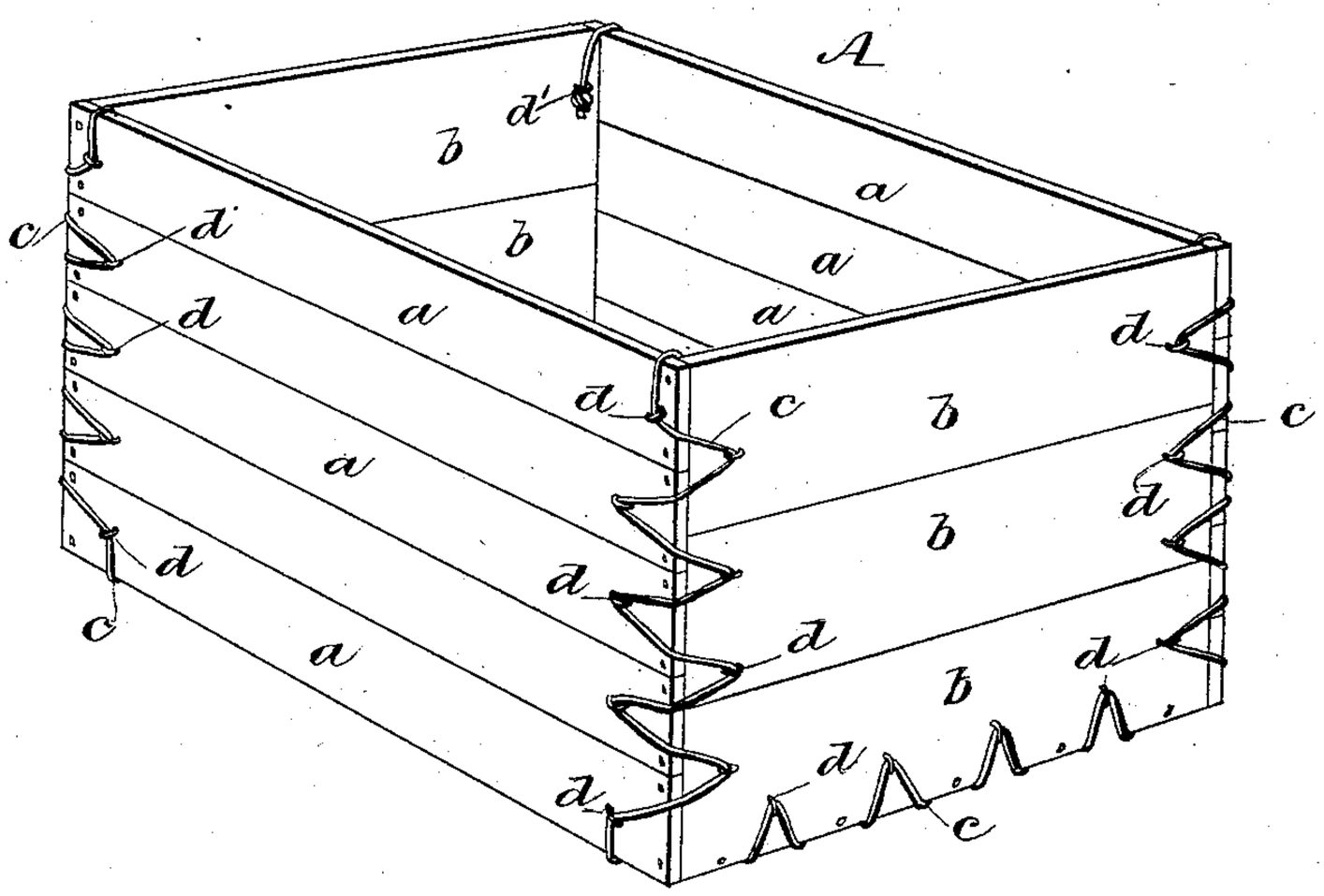
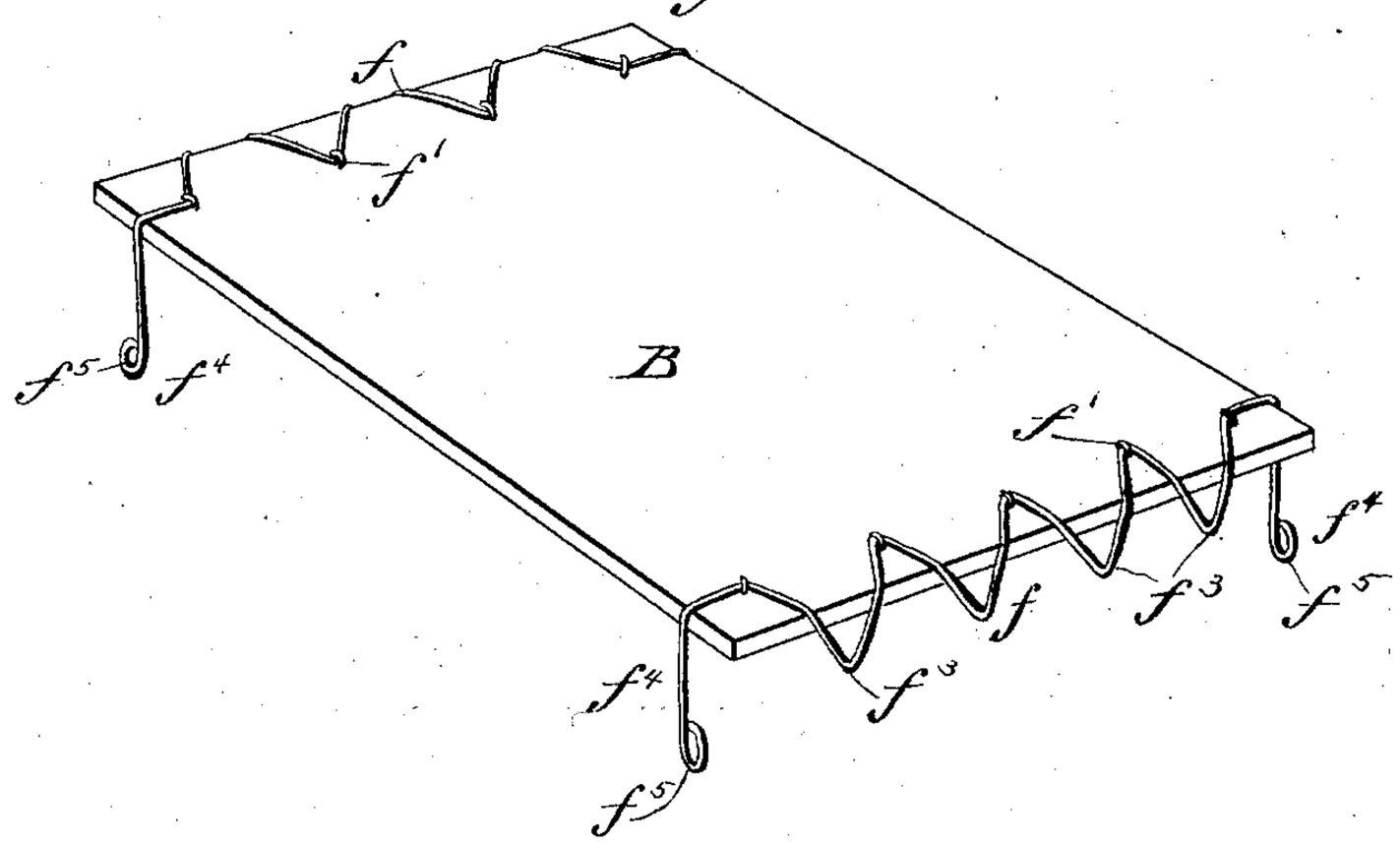


Fig. 2.



WITNESSES:

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PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 333,720, dated January 5, 1886.

Application filed September 4, 1885. Serial No. 176,150. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BEACH, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Packing or Dry-Goods Boxes, of which the following is a full, clear, and exact description.

It is well known that dry-goods and packing boxes are weak at the corners where the side boards are nailed to the ends of the end boards of the box. To overcome this defect it is common to bind boxes with wooden and sheet metal binders or hoops.

My invention consists, principally, in substituting for these binders or hoops a lacing of wire passed back and forth across the corners of the box, and having its bends secured to the outside of the box and its ends passed over the edge of the box and secured to the inside thereof, whereby the box is rendered much stronger than where hoops are used, and without adding much to the cost of the box.

The invention also consists in the cover of the box provided with a stay-wire secured to its upper surface and folded in loops over the ends of the same, to adapt them to be secured to the body of the box, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of a dry-goods or packing box made in accordance with my invention, and Fig. 2 is a perspective view of the cover for the box.

The body of the box A is of the usual construction—that is, composed of a suitable bottom, the side boards, *a a*, and end boards, *b b*, nailed together. At the end corners the box is stayed by the wires *c*, held by the staples *d*.

In applying the wire, one end is first secured by a staple, *d'*, inside of the box. The wire is then passed over the edge of the box and secured to the upper side board by a staple, and thence passed around the corner of the box and secured by a staple to the upper end board, and it is then passed back and forth over the corner of the box, forming a single lacing held at every angle with a staple. The lacing extends entirely around the two edges and bottom corners of the box, and the ends of the wires last secured are passed over the upper edge and to the inside of the box, where they are secured by staples, so that no ends of wires protrude from the outside of the box. The cover B is provided at each end with a wire, *f*, secured to the top of the cover by the staples *f'*, and bent to form loops f^3, that reach over the ends of the cover and fall below its lower surface, as shown in Fig. 2. The ends f^4 of the wires *f* are turned to form eyes f^5, and these ends reach below the lower surface of the cover, as shown, so that in applying the cover to the box A it is only necessary to place it thereon and secure the ends f^4 and loops f^3 to the sides and ends of the box by staples. In this manner the box is stayed all about its corners in a very secure and cheap manner, and a box thus stayed is much stronger than boxes stayed with wooden or sheet-metal hoops or bands, and the cover may be removed without destroying the body of the box. The staples placed over the wires and driven into the box draw the wires very tightly about the corners, and the bending of the wires may be such as to bind each board, so that all the boards will be equally well adapted to sustain the contents of the box, which is not the case with boxes bound in the ordinary manner, for as one board loosens the next must sustain more than its share of the weight, which is liable to loosen it, and then the box is weakened throughout, so it is liable to come to pieces.

By my method of binding, each board is stayed at its ends, so the box has no weak places, but is of equal strength throughout.

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

1. As an improved article of manufacture, a packing-box having its corners stayed with a lacing-wire passed back and forth across the corners, and having its bends secured to the outside of the box and its ends passed over the edge of the box and secured to the inside thereof, as set forth.

2. The cover B for the box, provided with the stay-wires *f*, secured to the upper surface of the cover and folded in loops over the ends of the same, to be secured to the body A of the box, substantially as and for the purposes set forth.

WILLIAM H. BEACH.

Witnesses:
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C. SEDGWICK.