(Model.)

L. SMITH.

SHIPPER'S DRY GOODS BOX.

No. 292,066. Patented Jan. 15, 1884.

Fig. 1.

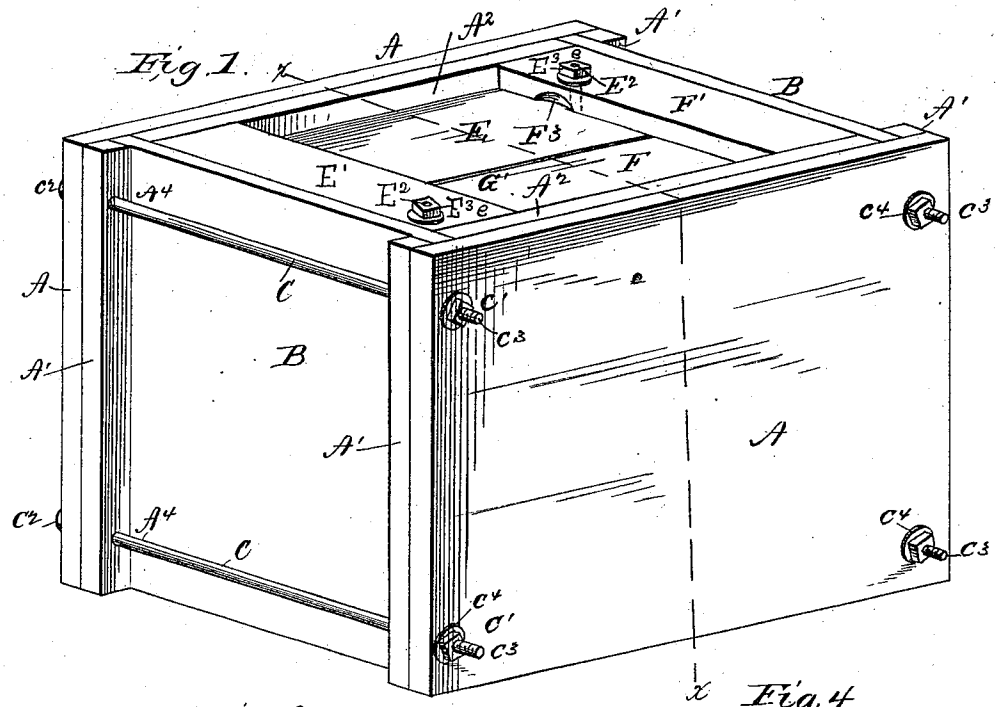


Fig. 2.

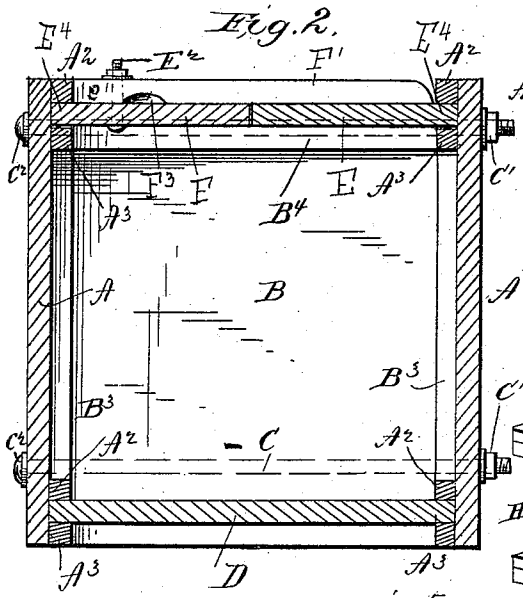


Fig. 4

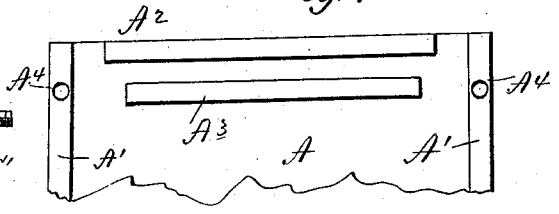
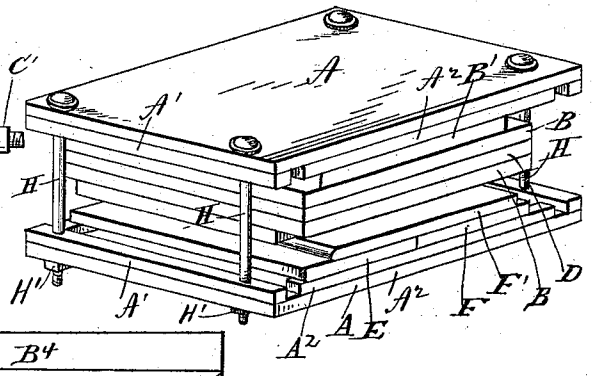
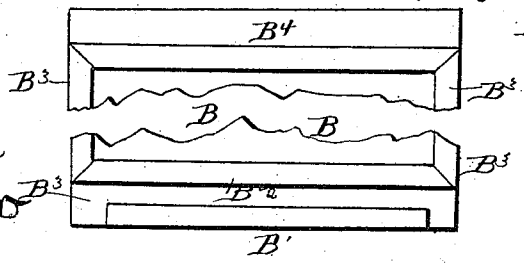


Fig. 3.

Fig. 5.





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UNITED STATES PATENT OFFICE.

LEWIS SMITH, OF WALLACE, ILLINOIS.

SHIPPER'S DRY-GOODS BOX.

SPECIFICATION forming part of Letters Patent No. 292,066, dated January 15, 1884.

Application filed November 30, 1883. (Model.)

To all whom it may concern:

Be it known that I, LEWIS SMITH, a citizen of the United States, residing at Wallace, in the county of De Kalb and State of Illinois, have invented certain new and useful Improvements in Shippers' Dry-Goods Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to a shipper's dry-goods box; and it consists in the parts which will be hereinafter described, and pointed out in the claims.

The object of my invention is to produce a simple and cheap box that may be wholly taken apart and rigidly reunited as often as desired—that is to say, the six pieces constituting the ends, sides, top, and bottom may be disunited. The lid and top piece are made in two parts and secured together by cleat-arms and short bolts, all of which will be more fully hereinafter described.

The advantage of my improvement is, the box may be filled with goods and shipped. After the goods are taken out, the box can be taken apart, and the several pieces laid flat upon each other and secured by short bolts and nuts, and returned to the point from whence it was shipped. Another advantage lies in the fact that the top end and side may be removed while the goods are yet in position, thereby facilitating the removal of the goods.

In the accompanying drawings, Figure 1 represents a perspective view of my box. Fig. 2 is a transverse section on the line of Fig. 1. Fig. 3 is a perspective view of the several parts when apart and packed to return to the shipper. In this instance the side pieces of the box are used as the top and bottom pieces, respectively. The parts when disunited, as shown in Fig. 3, are in a compact form, and occupy but comparatively little space. Fig. 4 is a fragment in elevation of the top part of one of the side pieces, and Fig. 5 represents fragments of the top and bottom pieces of the ends. The two end pieces are identical in construction.

Like letters indicate like parts throughout the several views.

The letter A represents the sides of the box, and A′ vertical cleats thereon.

A^2 is a top inside cleat, and A^3 is a cleat below it. Below the cleat A^2 is a space. The sides of the lid or cover are secured between cleats A^2 A^3, which will be more fully hereinafter described.

A^4 are openings through the sides A and cleats A′, for the reception of the tie-rods.

Fig. 4 represents the upper part of the inside of one of the side pieces. The lower inside end of the side piece is a reversed duplicate of the upper part shown in said figure.

B represents one of end pieces, and B′ a bottom inner cleat thereon.

B^2 is a cleat above cleat B′. The cleat B^2 extends across the inner side of the end piece, B, and it is secured immediately under the vertical cleats B^3 on said end piece.

C represents four tie-rods which pass through opening A^4. These rods are secured by heads C^2 and nuts C′ on the threaded ends C^3 of the rods.

C^4 are washers under nuts C′.

D is the bottom piece, consisting of flat bottom board. The sides and ends of said board lie between end cleats, B′ B^2, and the bottom side cleats, A^2 A^3, respectively.

E is one of the two sections of which the top piece is composed, and F is the other.

E′ is a cleat-arm secured to the top of section E. This arm is on one side of said section, and extends inward at right angles, and lies over one end of the other section. E^2 is a bolt secured to the section E. Said bolt projects upward, and it is provided with a thread. The threaded end passes through an opening in the cleat-arm F′, and it is secured thereto by nut E^3.

F is a section of the top, having the right-angled arm F′ fixed thereto. The sections F and E and their respective arms F′ E′ are identical, and constitute the top or lid of the box. The edges of the lid E^4 lie between the inside cleats, A^2 A^3. (Shown in Fig. 2.)

To remove the lid, unscrew the nuts E^3 and raise up the outer ends *e* of the arms F′ E′, whereby the edges F^4 of the lids F E will be withdrawn from between the cleats A^2 A^3, and the cover removed. F^3 are recesses in the under sides of arms F′ E′, to admit the thumb or finger of the operator when it is desired to remove the lid.

By removing the top and disengaging the four tie-rods C, the several parts of box can be disunited and placed in a compact form for reshipment, as shown in Fig. 3 of the drawings. When the parts are thus compactly united, the sides A A are used for top and bottom pieces, and they are secured by short rods and nuts H H, the openings C' in the sides admitting said rods for the purpose.

It is obvious that the two end sections could be united and the parts secured by means of a rod flat at each end, and riveted to the ends of the side pieces, A. This could be done without departing from the spirit of my invention; but I prefer the construction shown in the drawings.

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

1. In a shipper's dry-goods box, the sides, ends, top, and bottom composed of separate removable parts, and provided with cleats to aid in securing the parts in position, the top made in two parts, with right-angled lapping arms, as specified, and cross tie-rods through the sides, whereby the parts are rigidly united, leaving the top removable at pleasure, in the manner specified.

2. In a shipper's dry-goods box, the sides, ends, top, and bottom composed of separate parts, means for removably securing together, and provided with cleats to aid in securing the parts in position, the top made in two parts, with right-angled lapping arms, and bolts for securing the two parts rigidly together, substantially as described, and for the purpose set forth.

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

LEWIS SMITH.

Witnesses:
CHAS. F. MEYER,
WM. B. MCDOWELL.