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No. 813,944.

PATENTED FEB. 27, 1906.

J. H. BUBAR.  
SHIPPING CRATE.  
APPLICATION FILED JULY 31, 1905.

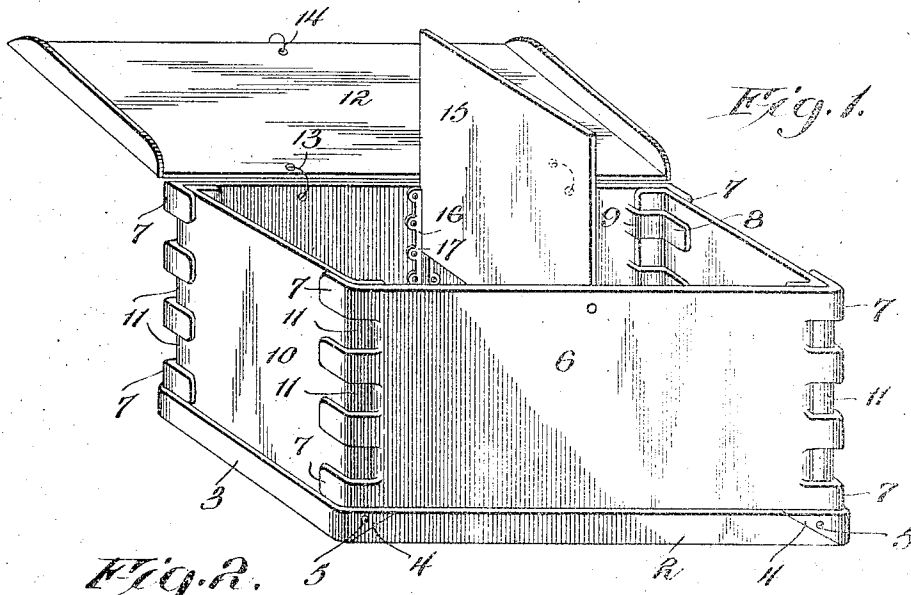


Fig. 1.

Fig. 2.

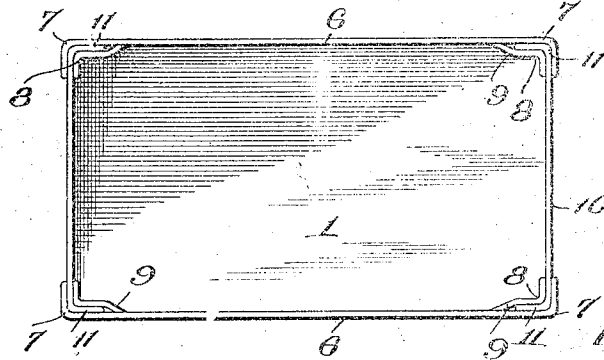
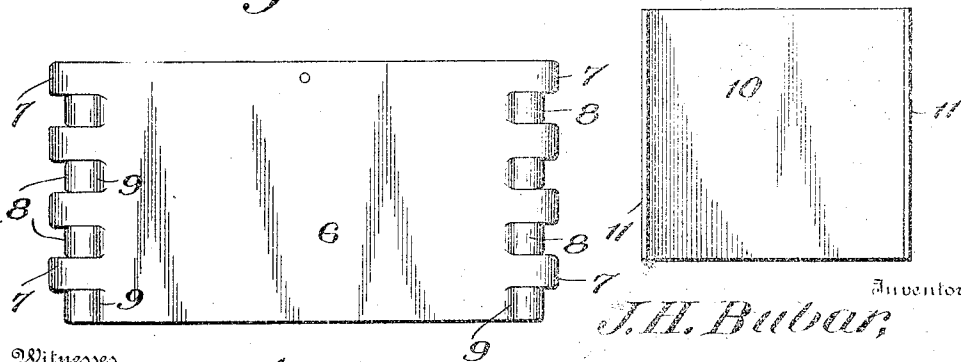


Fig. 3.

Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN H. BUBAR, OF DENVER, COLORADO.

## SHIPPING-CRATE.

No. 813,944.

Specification of Letters Patent.

Patented Feb. 27, 1906.

Application filed July 31, 1905. Serial No. 271,983.

### *To all whom it may concern:*

Be it known that I, JOHN H. BUBAR, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Shipping-Crates; 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.

The object of my invention is to provide a shipping-crate which may be very cheaply manufactured and the parts comprising the same readily separated, and thus permit the crate to be shipped in a knocked-down or folded condition.

A further object is to enable the shipper to have the crate returned to him in such shape that it will occupy the smallest amount of space, and thus reduce the cost of return shipment.

The details of my invention will be fully set forth in the following specification and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my invention complete, showing the middle partition as slightly-raised. Fig. 2 is a top plan view on a slightly-reduced scale. Fig. 3 is a detail showing one of the side sections in elevation. Fig. 4 is a detail showing one of the end sections removed.

For convenience the details of construction involved in my invention will be designated by numerals, of which 1 indicates the bottom section of my knockdown crate, which is preferably formed of suitable sheet metal, though any desired material may be used.

If sheet metal is employed to form the bottom section 1, I prefer to bend the edges thereof upward, so as to provide the side flanges 2 and the end flanges or sections 3, the ends of which are preferably left extended and bent around into engagement with the side sections, as indicated by the numeral 4, the ends of the side and end sections being permanently secured together by a rivet 5, thereby providing a cup-like section for the bottom designed to receive the side and end walls, as will be hereinafter made clear.

The side walls proper, 6, of my improved crate are each provided at each end with a plurality of preferably integral clamping-fingers 7 and 8, which are easily formed in the sheet metal comprising the side sections by properly locking the slits, as will be obvious

by reference to Figs. 1 and 3. The fingers or clamping-sections 7 are bent at right angles near their outer portions, as more clearly shown in Fig. 2, while the fingers or clamping-sections 8 are first bent inward, as indicated by the numeral 9, so as to dispose the section 8 parallel with the section 7, when the outer end of the finger 8 is then bent at right angles, thus disposing the extreme ends of both the fingers substantially parallel with each other and leaving the entire fingers or clamping-sections 7 and 8 substantially parallel with each other throughout their entire length. The object in thus disposing each alternate finger 7 and 8 is to provide a seat for the reception of the end sections 10, each of which is provided with a right-angled inwardly-directed extension or flange 11, designed to be received between the clamping-sections 7 and 8, as shown in Fig. 2.

By the construction just described it is obvious that the end sections may be very quickly entered into position by dropping the same outward, so that the flange and the outer ends of the end sections will be received between the fingers 7 and 8, thus insuring that said parts will be reliably held in coöperative relationship until the end sections are withdrawn. A lid-cover 12 is also provided and suitably hinged to the upper edge of one of the side sections 6, as indicated by the numeral 13, the free edge of the lid being provided with the lock 14, whereby the lid may be reliably secured in a closed position during shipment.

One or more partition-walls 15 will be found desirable in separating the interior of my folding crate, and thus fit the same for shipping eggs and other like products.

In order to reliably secure the partition against casual displacement, the vertical guideways 16 are preferably formed of a suitable piece of sheet metal and provided with integral ears 17, whereby the guides may be readily anchored in position by suitable rivets, as will be readily understood.

Various modifications may be adopted in constructing the several parts of my invention without departing from the spirit thereof, and I therefore desire to comprehend all substantial equivalents and substitutes.

When it is desired to return my improved crate to the consignor after the goods have been delivered, the end sections 10 may be lifted upward, when the side wall carrying the lock may be dropped into the bottom sec-

tion, with the fingers 7 and 8 pointing upward. The end sections and partition 15 may then be dropped in place, when the wall 6, to which the lid is hinged, may be folded  
5 down upon said end sections and partition and the lid 12 folded back upon the side section, to which it is secured, and a suitable cord or rope passed around the parts, thus  
10 holding them reliably in place disposed within a small compass and occupying a minimum amount of space.

My improved crate may be very quickly restored to a condition ready for receiving goods for shipment, it being understood that  
15 when eggs are to be placed within a crate the usual egg-holding paper receptacle may be employed, as is common.

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

20 1. A collapsible shipping-crate comprising a bottom section having side and end flanges,

side sections mounted upon the bottom section, parallel series of fingers integral with each end of each side section and extending at right angles therefrom, and end sections  
25 having right-angle extensions at their ends adapted to be seated between the series of fingers and the side sections.

2. A collapsible crate comprising a bottom section, side sections mounted thereon, angular fingers at each end of and integral with  
30 each side section, said fingers being disposed in parallel rows, the end sections having end flanges adapted to be inserted between the rows of fingers at each end of the side sections.  
35

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN H. BUBAR.

Witnesses:

W. O. PERRY,

E. E. POTTS.