W. G. SEABOLD.

KNOCKDOWN SHIPPING PACKAGE.

APPLICATION FILED MAY 8, 1919.

1,359,753.

Patented Nov. 23, 1920.

Fig. II.

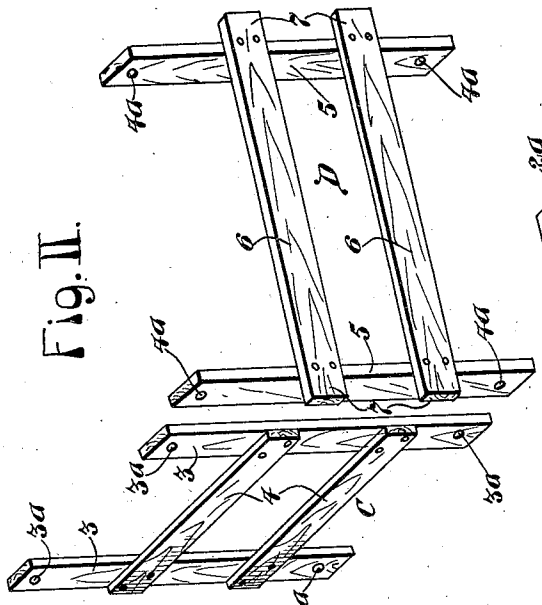


Fig. III.

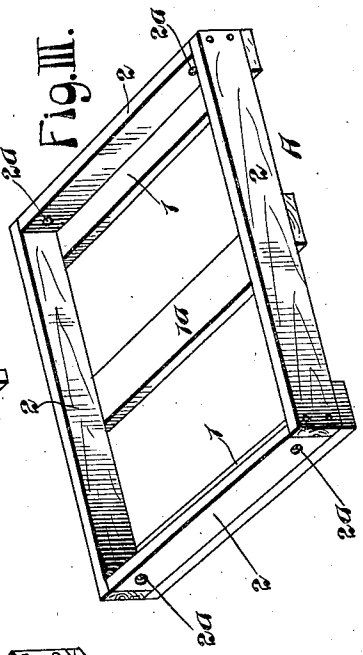
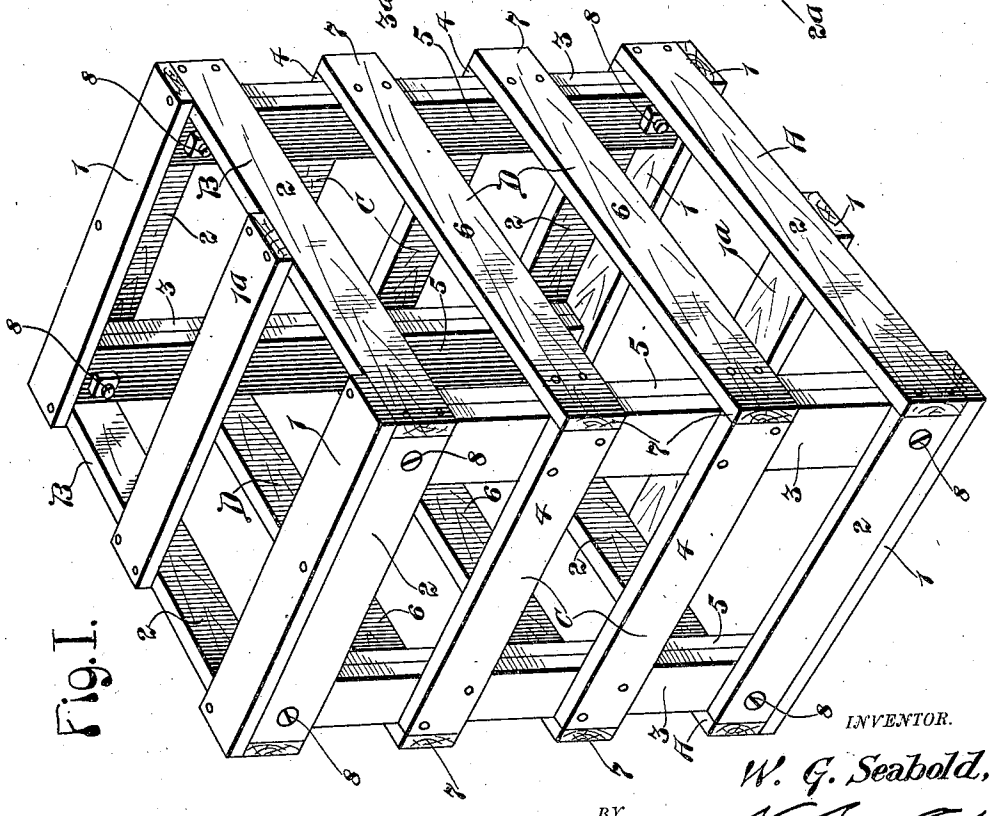


Fig. I.



INVENTOR.

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BY

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HIS ATTORNEYS.

UNITED STATES PATENT OFFICE.

WALTER G. SEABOLD, OF ALTON, ILLINOIS, ASSIGNOR TO ILLINOIS GLASS COMPANY, OF ALTON, ILLINOIS, A CORPORATION OF ILLINOIS.

KNOCKDOWN SHIPPING-PACKAGE.

1,359,753. Specification of Letters Patent. Patented Nov. 23, 1920.

Application filed May 8, 1919. Serial No. 295,745.

To all whom it may concern:

Be it known that I, WALTER G. SEABOLD, a citizen of the United States of America, a resident of Alton, in the county of Madison, State of Illinois, have invented certain new and useful Improvements in Knockdown Shipping-Packages, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to a shipping package which may be in the form either of a crate or box, the invention having for its object the production of a shipping package of knock down construction comprising a few simple elements detachably secured to each other in a simple and inexpensive manner. With this object in view, the package comprises wall sections fitted to each other in overlapping relation so that said wall sections brace each other, and top and bottom sections secured to the wall sections and embracing them to hold the wall sections in overlapping and bracing relation.

Figure I is a perspective of my shipping package in condition for use.

Fig. II is a perspective of two of the adjoining wall sections, in the positions assumed when about to be assembled.

Fig. III is a perspective of the bottom section of my package.

In the accompanying drawings, I have shown my invention embodied in a shipping crate, and will describe it as so embodied, with the understanding that the package may partake of any other desired form, for example, that of a box.

My shipping package is of rectangular form and comprises a bottom section A, a top section B and side sections C and D.

The bottom and top sections A and B are similar in structure, each including marginal end pieces 1, intermediate end pieces 1^a and flange pieces 2 to which the end pieces are secured, thereby forming a rectangular frame in which the flange pieces constitute flanges of the frame. The end pieces 1 of the top and bottom sections, adjoin two of the parallel flange pieces 2 with the object in view which will be hereinafter made clear.

The side sections C are similar and each of said sections comprises a pair of uprights 3 and cross pieces 4 joining said uprights intermediate of the ends of the uprights, the end portions of said uprights being preferably free of any cross pieces. The side sections D comprise uprights 5 and cross pieces 6 joining said uprights intermediate of the ends of the uprights 5, said cross pieces being of greater length than the distance between the outside faces of the uprights 5, so that said cross pieces include abutment extensions 7, the utility of which will be hereinafter explained. Said abutment extensions of the cross pieces 6 are preferably equal in length to the combined thickness of the uprights 3 and pieces 4 in each side section C as shown in Fig. I.

Two parallel flange pieces 2 of the bottom and top sections A and B are provided near their ends with bolt holes 2^a, these bolt holes being thereby located at the four corners of the sections. The uprights 3 and 4 are provided, respectively, near their ends with bolt holes 3^a and 4^a, which, when the package is assembled, register with the bolt holes 2^a in the flange pieces 2 of the bottom and top sections A and B and receive the bolts 8 by which the bottom and the top sections of the package are secured to the wall sections C and D, when said wall sections are assembled in a manner about to be described.

In assembling my knock down shipping package, one pair of the side sections C or D is first introduced into the bottom section A so that its uprights will be seated upon the marginal end pieces 1 of said bottom section with the bolt holes in the lower ends of the uprights of said sections in registration with the bolt holes 2^a in one pair of the flange pieces of the bottom section. The other pair of side sections are then introduced into the bottom section and seated on the marginal end pieces with the bolt holes in the lower ends of the uprights of these sections in registration with the bolt holes in the flanges of the bottom section and the bolt holes at the lower ends of the uprights of the sections first introduced. When the side sections have been so mounted in the bottom section they are supported by the marginal end pieces 1 of the bottom section and as the bolt holes are properly disposed to secure such results, the holes through the flange pieces and through the lower ends of the uprights so register that

the bolts 8 at the bottom of the package may be readily passed through said bolt holes for the purpose of securing the side sections to the flange pieces of the bottom section, with the uprights of the two pairs of side sections fitted to each other in lapping and bracing relation. The extensions 7 of the cross pieces of the side sections D extend beyond the outer sides of the uprights of these sections when the side sections are assembled and serve as abutments for the sections C located at angles thereto with the result of bracing the side sections relative to each other.

After the side sections have been secured to the bottom section in the manner explained, a similar procedure is followed with respect to the application of the top section B to the side sections and the bolt holes in the flange pieces of the top section are placed in registration with the bolt holes in the upper ends of the uprights of the side sections and the bolts 8 at the top of the package are positioned in said bolt holes to detachably secure the top section to the side sections.

The herein described knock down shipping package may be expeditiously assembled and knocked down for return shipment in collapsed condition, with consequent reduction in the cost of transportation for the return shipment and reuse.

I claim:

1. A shipping package comprising a pair of side sections having uprights, a second pair of side sections having uprights separably fitting against the uprights of the first named side sections, and top and bottom sections detachably secured to the uprights of said side sections.

2. A shipping package comprising a pair of side sections having uprights, a second pair of side sections having uprights separably fitting against the uprights of the first named side sections, and top and bottom sections having flange pieces surrounding the end portions of all of said uprights and detachably secured thereto.

3. A shipping package comprising a pair of side sections having uprights, a second pair of side sections having uprights separably fitting against the uprights of the first named side sections, top and bottom sections having flange pieces surrounding the end portions of all of said uprights, and fastening means extending through said flange pieces and uprights whereby the side sections and top and bottom sections are detachably secured to one another.

4. A shipping package comprising a pair of side sections having uprights, a second pair of side sections arranged at angles to the first mentioned side sections and having uprights fitting against the uprights of the first mentioned side sections, the end portions of said uprights abutting against each other and having registering bolt holes, top and bottom sections having flange pieces provided with bolt holes registering with the registering bolt holes in said uprights, and bolts extending through the bolt holes in said flange pieces and uprights whereby said top and bottom sections and side sections are detachably secured to one another.

5. A shipping package comprising a pair of side sections including uprights and cross pieces, a second pair of side sections including uprights and cross pieces arranged at angles to the first mentioned side sections, the uprights of the pairs of side sections abutting against one another and the cross pieces of one pair of the side sections having extensions overlapping the edges of the cross pieces of the other side sections, and top and bottom sections detachably secured to the uprights of said side sections.

In testimony that I claim the foregoing I hereunto affix my signature.

WALTER G. SEABOLD.