R. I. BAYNE.

FOLDING SHIPPING CRATE.

APPLICATION FILED JULY 7, 1909.

953,581. Patented Mar. 29, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

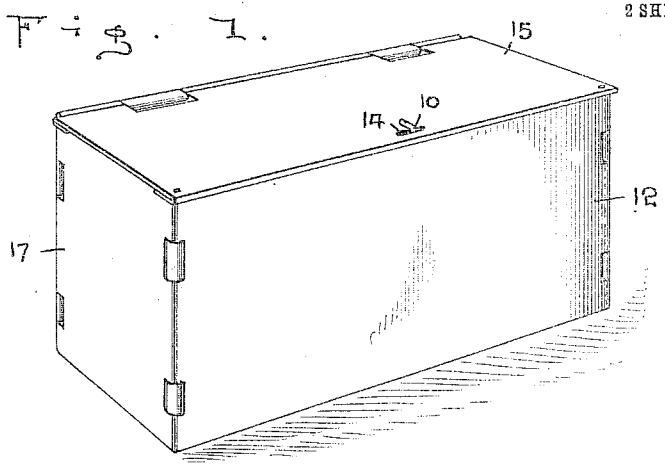


Fig. 2.

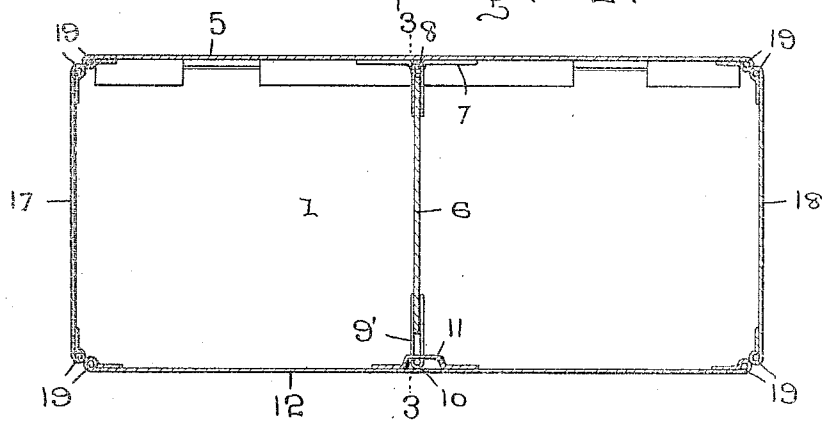
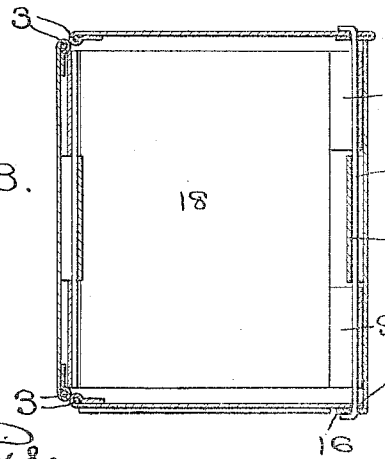


Fig. 3.



WITNESSES:

Thomas Ray

F. R. French.

INVENTOR

R. I. Bayne

BY

W. J. FitzGerald & Co

Attorneys

R. I. BAYNE.

FOLDING SHIPPING CRATE.

APPLICATION FILED JULY 7, 1909.

953,581. Patented Mar. 29, 1910.

2 SHEETS—SHEET 2.

Fig. 4.

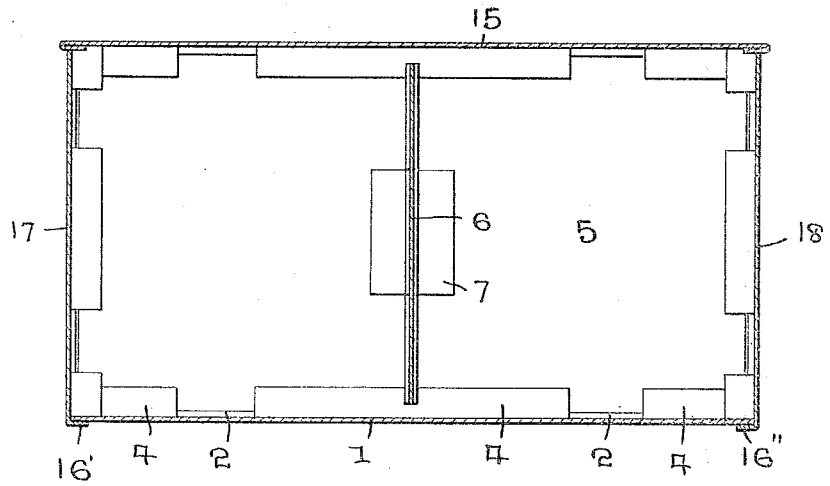


Fig. 5.

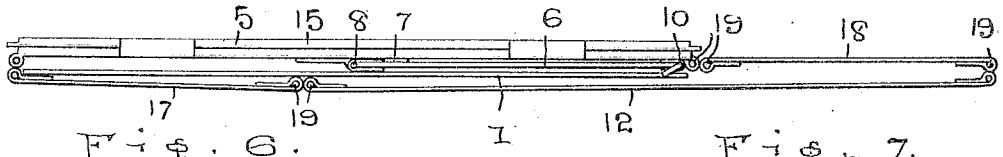


Fig. 6.

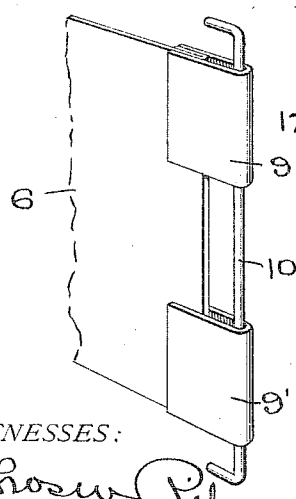


Fig. 8.

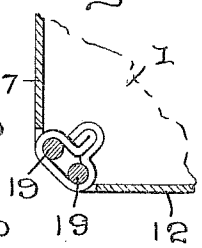
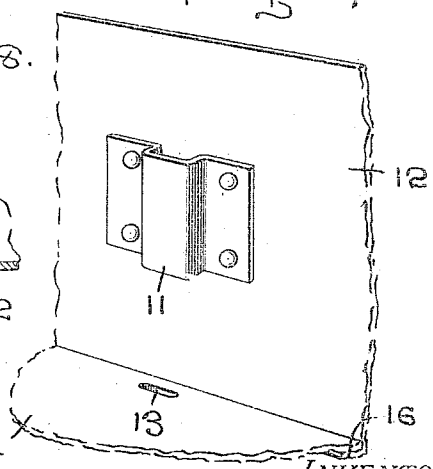


Fig. 7.



WITNESSES:

Thos. W. Pilsy

F. R. French.

INVENTOR

R. I. Bayne

BY

W. J. FitzGerald & Co

Attorneys

UNITED STATES PATENT OFFICE.

ROY I. BAYNE, OF VERDIGRIS, NEBRASKA.

FOLDING SHIPPING-CRATE.

953,581. Specification of Letters Patent. Patented Mar. 29, 1910.

Application filed July 7, 1909. Serial No. 506,325.

To all whom it may concern:

Be it known that I, ROY I. BAYNE, a citizen of the United States, residing at Verdigris, in the county of Knox and State of Nebraska, have invented certain new and useful Improvements in Folding 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.

My invention relates to new and useful improvements in shipping crates and especially to the class which are adapted to be folded when not in use, or for the return of the same when the contents have been removed, and it has for an object to provide a novel manner for hinging the various inclosing walls.

Further objects will be brought out more clearly in the following specifications and claim.

Referring to the drawings which form a part of the accompanying specifications. Figure 1 is a perspective view. Fig. 2 is a plan view in section with the top broken away. Fig. 3 is a vertical end elevation in section taken on the line 3—3 in Fig. 2. Fig. 4 is a central vertical section. Fig. 5 is a side elevation of my crate in its knocked down position. Fig. 6 is a fragmentary view of the partition showing the catch mechanism. Fig. 7 is a fragmentary interior view of a side and bottom of my crate disclosing a keeper and opening in the bottom for receiving the catch as disclosed in Fig. 6. Fig. 8 is a transverse section of a modified form of hinge construction.

In carrying out my invention I preferably use galvanized sheet iron or tin plate, though I do not desire to restrict myself to any particular material, but endeavor to use the most serviceable material combined with lightness in weight.

The base 1 of my crate is made substantially rectangular in shape, having at its rear edge tongue-like extensions 2 which are adapted to be bent around a pin or rod 3 to form a hinge, said pin 3 also being engaged by tongue-like projections 4 of the rear side 5; these hinge members being so folded as to allow the base of the crate to fold inwardly so as to rest substantially upon the rear side 5. A partition 6 is secured at about the middle of the rear side 5 by means of three sets of tongue-like keepers 7 inclosing a pin 8, the keepers being preferably riveted to the partition and rear side thereby forming with the pin a hinge which will permit the partition to swing laterally to a position of rest upon the rear side, thus lying in between the base and the rear side when the crate is folded.

The front edge of the partition has an upper and a lower keeper 9 and 9′ extending horizontally from the said edge and secured thereto by any preferred means, adapted to retain a pin 10 having both ends bent in the shape of an L, said pin being so constructed as to permit of being manually raised or lowered within the aforesaid keepers, also adapted to pass through another keeper 11 secured by any preferred means to the front side 12, but extending horizontally inward and in a line with an opening 13 cut in the base of the crate whereby the pin 10 retains the base, the front side and the partition in a rigid position. As a means for finally securing the walls of the crate in an assembled condition, a further opening 14 in the top 15 permits of the upper L-shaped end of the pin 10 to be turned in engagement with said top. The front side 12 has a horizontal extension 16, which with similar horizontal extensions 16′ and 16″ of the ends 17 and 18 afford a seat for the base 1. The ends 17 and 18 are hingedly secured to the sides 5 and 12 by means of tongue-like extensions at their respective ends adapted to fold in engagement with pins 19 and so constructed as to permit the walls when folded laterally to rest partially upon the base, which in turn rests upon the partition and rear side. The top 15 is hingedly secured to the rear side 5 by means of tongue-like extensions on the inner edge of the top and the upper edge of the side 5 folded in engagement with a pin similar to the pin 3 and so constructed as to permit the top to be folded downwardly upon a rear side 5 when the crate is in its knocked-down position.

It is my purpose to provide a folding crate which will stand a large amount of wear and tear, also one which has its walls so hinged as to be readily folded when it is desired to ship the crate after the contents of the crate have been withdrawn. By my hinge construction I have endeavored to do away with complicated and unwieldly

hinges, simply providing hinges by means of extensions of the inclosing walls of the crate bent in engagement with pins.

What I claim is:

The herein described device, comprising the combination with four inclosing walls hingedly secured at their edges, three of said inclosing walls having horizontal projections at their lower edges, a base hingedly secured to one of said inclosing walls and seated upon said horizontal projections, a top hingedly secured to said last mentioned wall, of a partition, tongue-like projections of said partition secured to said last mentioned wall, said tongue-like projections also being bent to form a hinge, a pin inserted in said tongue-like projections, whereby said partition may be swung laterally, a pair of keepers extending horizontally from the free edge of said partition, a pin having both ends bent substantially L shaped, said last mentioned pin being adapted to move vertically in said keepers, a keeper extending horizontally inward from the wall adjacent the free end of said partition and an opening in the base and top in alinement with said last named keeper, whereby said last mentioned pin retains the crate in an assembled condition.

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

ROY I. BAYNE.

Witnesses:
ELVA RANDA,
ANDREW SUKUP.