G. CRANE.

SHIPPING CRATE.

APPLICATION FILED SEPT. 30, 1915.

1,200,085. Patented Oct. 3, 1916.

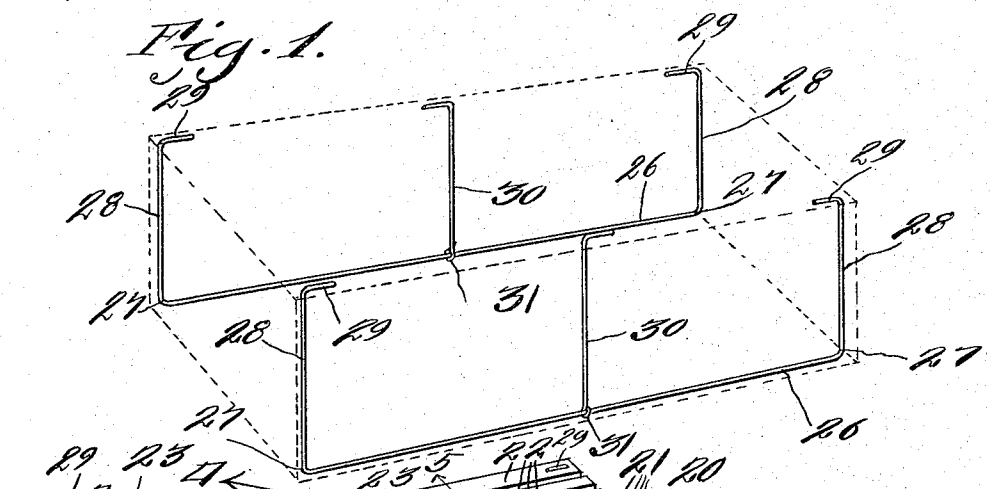


Fig. 1.

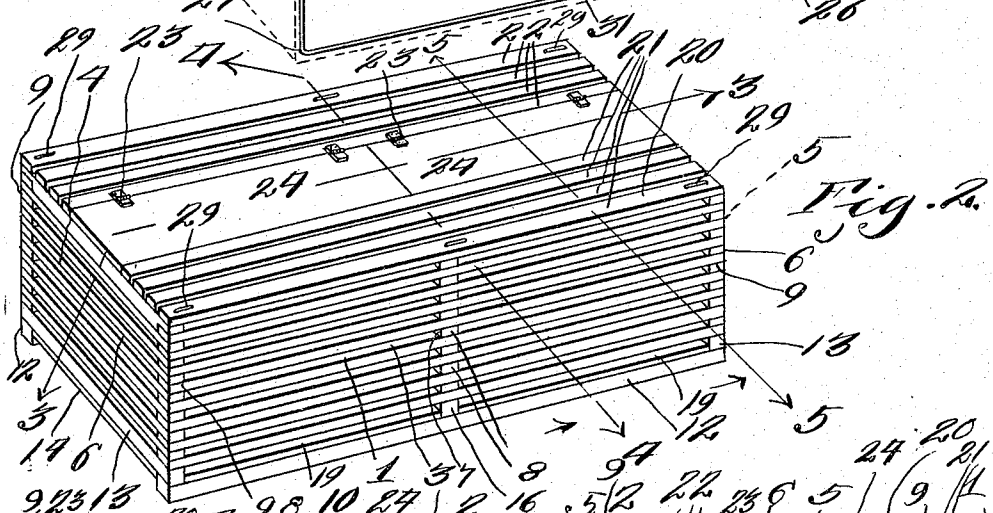


Fig. 2.

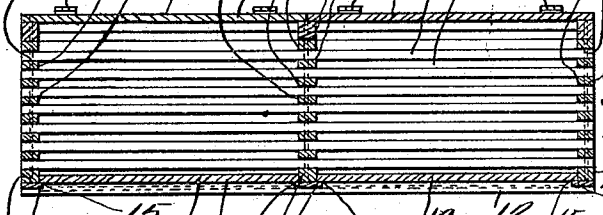


Fig. 3.

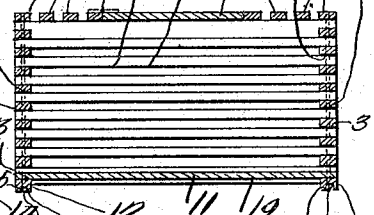


Fig. 5.

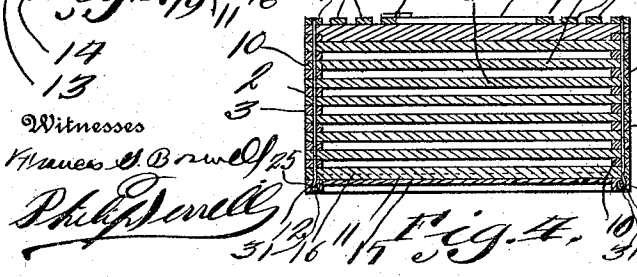


Fig. 4.

Witnesses

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SHIPPING-CRATE.

1,200,085. Specification of Letters Patent. Patented Oct. 3, 1916.

Application filed September 30, 1915. Serial No. 53,412.

To all whom it may concern:

Be it known that I, GEORGE CRANE, a citizen of the United States, residing at Girard, in the county of Macoupin, State of Illinois, have invented a new and useful Shipping-Crate; 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.

This invention relates to an improved shipping crate or coop, and an object of the invention is to provide a device of this nature, which is simple, efficient, practical in construction, and consists of an improved frame having wire bonds or rods, so arranged as to hold the parts of the frame securely and firmly together.

In practical fields the details of construction may necessitate alterations falling within the scope of what is claimed.

The invention comprises further features and combinations of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view in perspective showing the frame of the crate or coop in dotted lines, and illustrating the wire bonds or rods for tying or securing the parts of the crate or coop together in full lines. Fig. 2 is a view in perspective of the crate or coop showing the frame in full lines. Fig. 3 is a longitudinal sectional view on line 3—3 of Fig. 2. Fig. 4 is a sectional view on line 4—4 of Fig. 2. Fig. 5 is a sectional view on line 5—5 of Fig. 2.

Referring more especially to the drawings, 1 and 2 designate the opposite longitudinal sides of the crate or coop consisting of the longitudinal bars 3, whereas 4 and 5 designate the ends of the crate or coop consisting of the transverse end bars 6, whereas 7 denotes the centrally arranged partition consisting of the transverse bars 8. The ends of the end and central bars 6 and 8 are arranged between the ends and between the central portions of the longitudinal side bars 3, as shown at 9 and 10.

The bottom 11 of the crate or coop consists of the longitudinal side rails 12 and the transverse end rails 13, the ends of the transverse rails 13 engaging upon the ends of the longitudinal rails 12. Secured to the under faces of the end transverse rails 13 are strips 14, which are wider than the rails 13, so as to form a flange 15. The transverse central rail 16 has its ends engaging the opposite longitudinal rails 12 upon their upper surfaces. Secured to the under face of the central rail 16 is a strip 17, which is wider than the rail 16, to form the flanges 18. Secured upon the flanges 15 and 18 are the bottom boards 19, thereby completing the bottom 11 of the coop or crate.

The top 20 of the crate consists of the bars or strips 21 and 22, and hingedly connected at 23 to one of the bars 22 are the closures 24, which may be held locked by any suitable means, not shown. By opening the closures, access may be had to the two compartments formed by the partition 7.

The longitudinal rails 12 upon their under surfaces are provided with longitudinal grooves 25, which receive the wires or bonds 26, which are bent at 27 to form the right-angled upwardly extending parts 28, which extend vertically through the adjacent ends of the longitudinal and end bars 3 and 6, and through the outer corner bars or strips 21 and 22, thereby tying or bonding the various bars of the longitudinal sides and end parts of the crate or coop together. The upper parts of the right-angled portions 28 are bent laterally to form the parts 29, which lie against and are embedded partially into the upper surfaces of the outer corner strips or bars 21 and 22, to insure holding said bars 3 and 6 securely together.

Extending vertically through the rails 12 centrally and through the ends of the bars 8 are wires, bonds or rods 30. The lower ends of the bonds, wires or rods 30 are turned to form eyes 31, which receive the wires or bondings or rods 26. The upper ends of the rods or bondings 30 are bent laterally in opposite directions to engage and be embedded into the upper surfaces of the outer corner strips or bars 21 and 22, thereby, together with the eyes 31, holding the bars 8 and 3 and the rails 12 securely bonded, in order to afford a firm and rigid crate or coop for shipping various produce or chickens and the like.

The invention having been set forth, what is claimed as new and useful is:—

1. A shipping crate comprising the longitudinal sides and end parts consisting of the longitudinal and transverse bars having their ends arranged alternately between one another, a central partition consisting of

transverse bars having their ends between the central portions of the longitudinal bars, a bottom, a top, the bottom having longitudinal side rails provided with grooves in their under surfaces, bonding wires in said grooves and having their ends bent upwardly and extending through the adjacent ends of the end transverse bars and the ends of the longitudinal side bars, said upwardly extending parts of the bonding wires having laterally extending portions at their upper ends overlying against and being partially embedded in the top, vertical bonding wires having eyes at their lower ends to receive the central portions of the bonding wires in the grooves, said vertical bonding wires passing through the central portions of the longitudinal bars of the sides and through the ends of the bars of the central partition and having their upper ends provided with lateral portions overlying and being partially embedded in the top.

2. A shipping crate comprising the longitudinal sides and end parts consisting of the longitudinal and transverse bars having their ends arranged alternately between one another, a central partition consisting of transverse bars having their ends between the central portions of the longitudinal bars, a bottom, a top, the bottom having longitudinal side rails provided with grooves in their under surfaces, bonding wires in said grooves and having their ends bent upwardly and extending through the adjacent ends of the end transverse bars and the ends of the longitudinal side bars, said upwardly extending parts of the bonding wires having laterally extending portions at their upper ends overlying against and being partially embedded in the top, vertical bonding wires having eyes at their lower ends to receive the central portions of the bonding wires in the grooves, said vertical bonding wires passing through the central portions of the longitudinal bars of the sides and through the ends of the bars of the central partition and having their upper ends provided with lateral portions overlying and being partially embedded in the top, the lower transverse end bars having strips secured thereto which are wider than the lower bars of the ends, thereby forming flanges, the lower bar of the transverse bars of the partition having a strip secured thereto, which strip is wider than the lower bar of the partition forming opposite lateral flanges, and bottom boards secured to said flanges.

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

GEORGE CRANE.

Witnesses:
J. H. TUTSORT,
E. A. GIBSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."