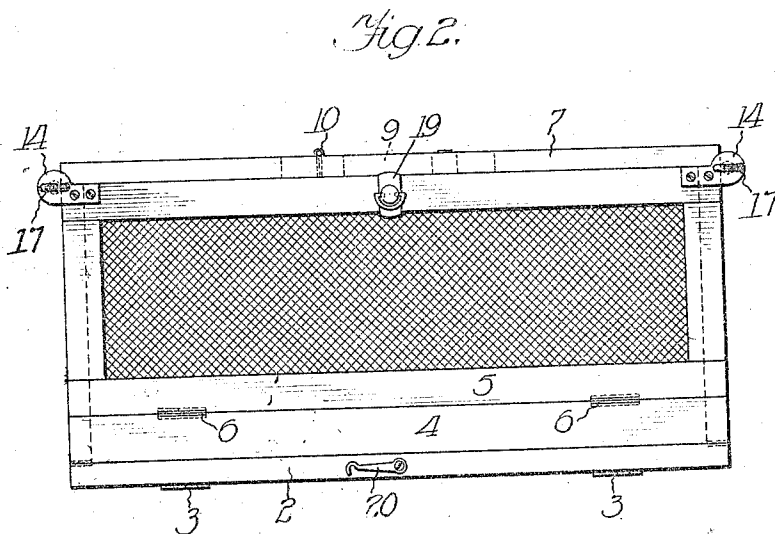
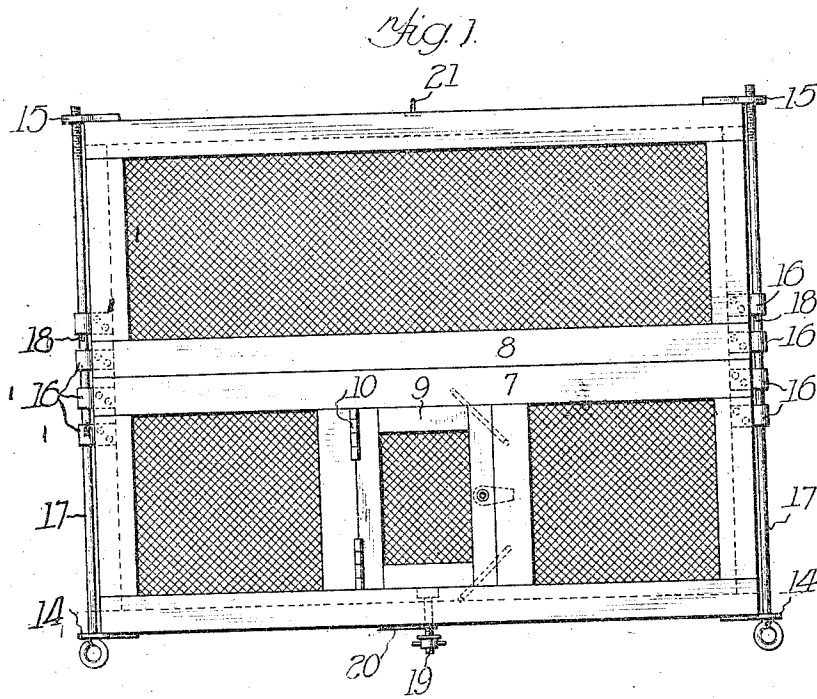


F. SIMON.
SHIPPING CRATE.
APPLICATION FILED MAR. 7, 1910.

Patented July 5, 1910.
2 SHEETS—SHEET 1.

963,331.



Witnesses:
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2 SHEETS—SHEET 2.

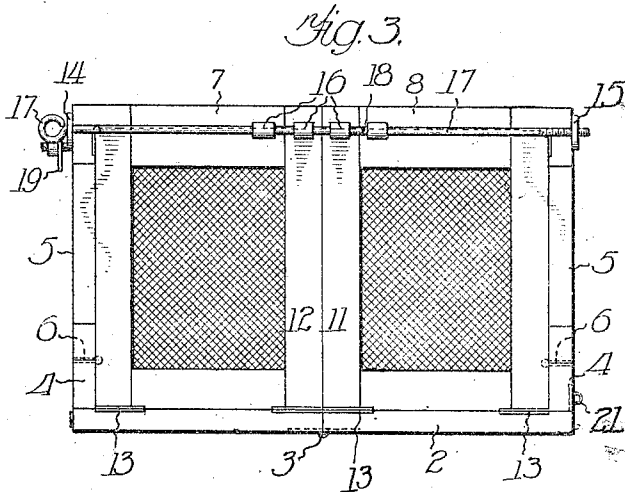


Fig. 4.

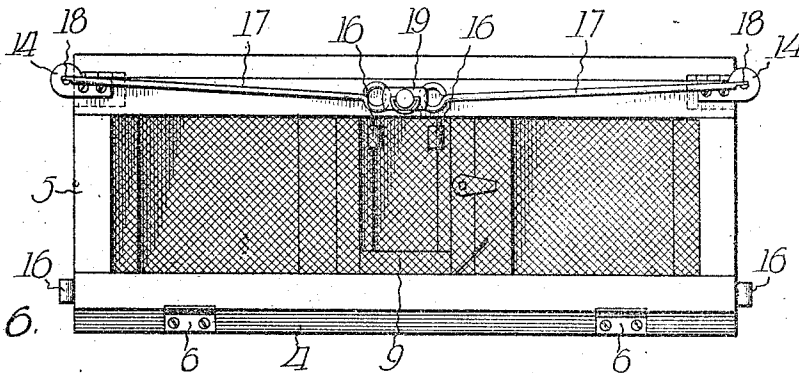


Fig. 6.

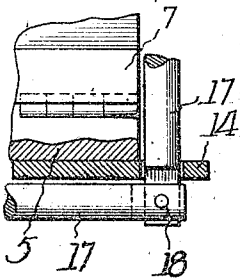


Fig. 5.

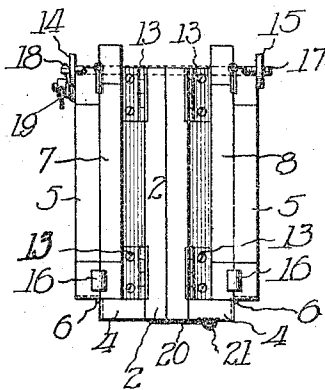
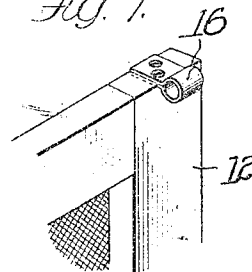


Fig. 7.



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UNITED STATES PATENT OFFICE.

FRANK SIMON, OF CHICAGO, ILLINOIS.

SHIPPING-CRATE.

963,331.

Specification of Letters Patent.

Patented July 5, 1910.

Application filed March 7, 1910. Serial No. 547,932.

To all whom it may concern:

Be it known that I, FRANK SIMON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Shipping-Crates, of which the following is a specification.

This invention relates to improvements in knockdown shipping crates and more particularly to those designed especially for shipping poultry. Its object is the production of a device of the kind that when set up or assembled will accommodate a number of fowls comfortably and when empty can be folded into very small space.

Another object is cheapness of manufacture.

With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described in the following specification, pointed out in the claim and illustrated in the accompanying drawings, in which—

Figure 1 is a top plan of the crate. Fig. 2 is a side elevation. Fig. 3 is an end elevation. Fig. 4 is a plan of the device folded and in readiness for the return trip empty. Fig. 5 is an end elevation of the folded crate. Fig. 6 is a detail of an upper corner of the device taken from Fig. 4. Fig. 7 is another detail.

Like reference characters indicate corresponding parts throughout the several views.

2 represents the floor of the crate formed of two similar sections hinged together at 3 in a manner to permit the sections to fold longitudinally upon each other. The relatively remote lateral edges of either floor section are turned upward approximately at right angles to the main floor section as at 4 and the two side pieces 5 of the crate are hinged thereto as at 6 in a manner to permit either side piece to fold inwardly. Top pieces 7 and 8 are hinged to side pieces 5 by inside hinges in a manner to permit said top pieces to fold inwardly upon said side pieces. The top piece 7 has a door 9 made therein and hinged at 10 which door may be opened to fill or empty the crate. End pieces 11 and 12 are provided at either end of the crate and are hinged to the floor as at 13 in a manner to permit them to fold inwardly and upon the floor.

14 is a bracket with an eye therein arranged at either upper corner of one of the

sides of the crate and 15 is a threaded eye arranged on the top corners of the opposite side of the crate in alinement with eye 14. Eyelets 16 are arranged on the end pieces 11 and 12 in alinement with the eye in bracket 14 and threaded eye 15.

17 is a rod having one end terminating in an eye and the opposite extremity threaded; this rod is formed in two sections hinged together as at 18. The rod 17 is adapted for insertion in bracket 14 and through eyelets 16 when the threaded extremity is screwed through the eye 15 when the crate is assembled.

19 is a screw clasp on one of the side pieces 5 and 20 is a hook on one lateral extremity of a floor section and 21 an eye on the remote lateral extremity of the other floor section.

Figs. 1, 2 and 3 show the crate assembled and Fig. 4 shows it knocked down. When the crate is assembled and it is desired to fold it the bars 17 are drawn out of the threaded eye 15 and out of the eyelets 16, the end pieces 11 and 12 are then folded in upon the floor, the floor sections are folded outward longitudinally upon each other, the top pieces 7 and 8 are folded in upon the side pieces 5 and these last named pieces are folded down upon the end pieces 11 and 12. The threaded extremity of rod 17 is now again inserted in screw eye 15 which is again in alinement with eye in bracket 14 as shown in Fig. 5, the rod 17 is folded on its hinge 18 until in the position shown in Fig. 6 when the section of the rod adjacent side piece 5 is used as a handle to screw the other section of the rod through the screw eye 15 as far as desired or until the folded crate is made compact when the extremity of rod 17 terminating in an eye is placed under screw clasp 19 as shown in Fig. 4 and the same screwed down to hold the rod in position and it is ready for the return trip.

What I claim is—

In a crate, a floor adapted to fold longitudinally upon itself and having its relatively remote lateral edges upturned and provided with a hook and eye as shown, end pieces provided with eyelets hinged to the floor and foldable inwardly thereupon, side pieces provided with brackets having eyes therein in alinement with each other and with the aforesaid eyelets hinged to the aforesaid upturned floor edges, one of said side pieces being provided with a screw clasp, top pieces hinged to said side pieces

and foldable inwardly thereupon, the aforesaid side pieces being foldable upon the aforesaid end pieces and a hinged rod adapted for insertion in the aforesaid eyelets and
5 bracket eyes and under the aforesaid screw clasp.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in the presence of two subscribing witnesses.

FRANK SIMON.

Witnesses:

STONE SZABO,
W. W. YEATES.