No. 616,162. Patented Dec. 20, 1898.

Z. B. TAYLOR.

FOLDING CRATE.

(Application filed June 18, 1898.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

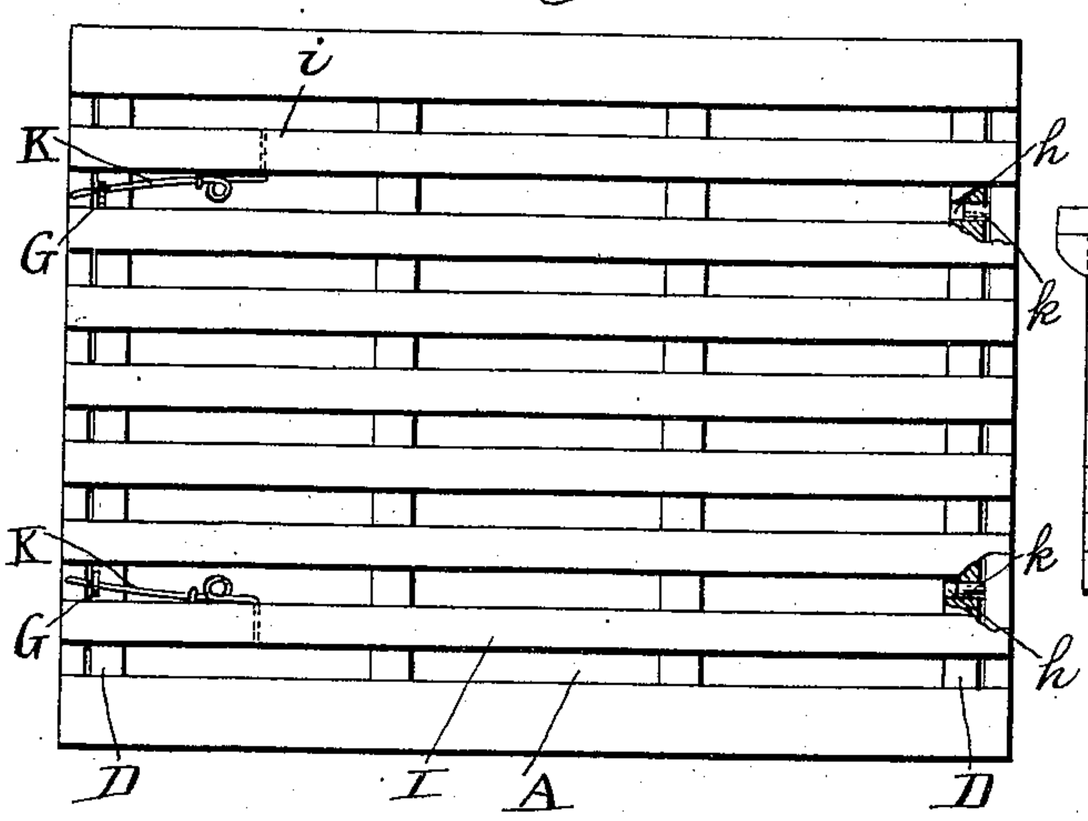


Fig. 2.

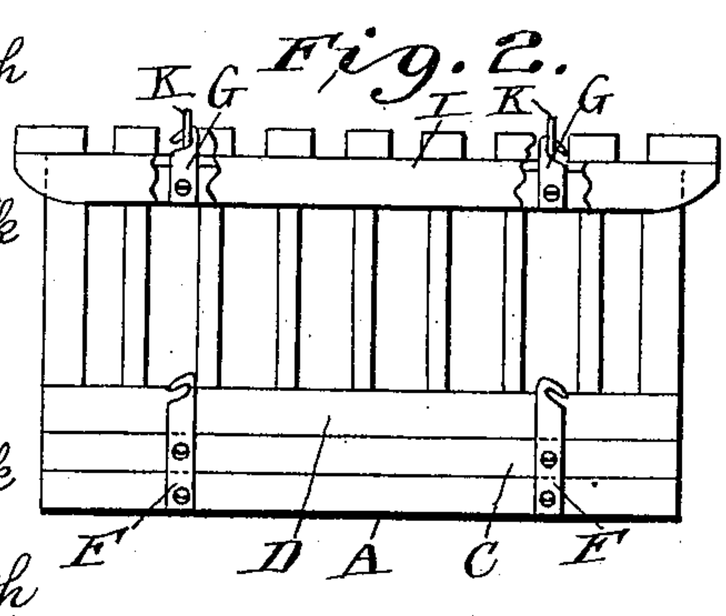


Fig. 3.

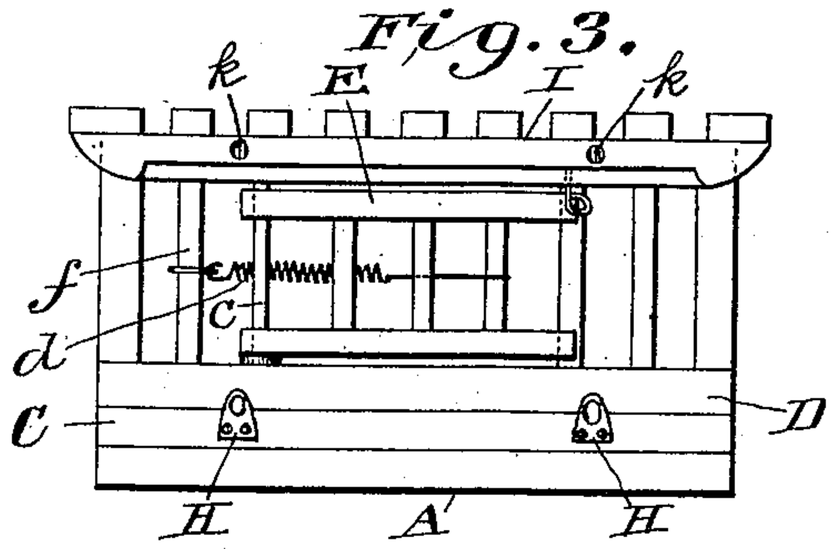
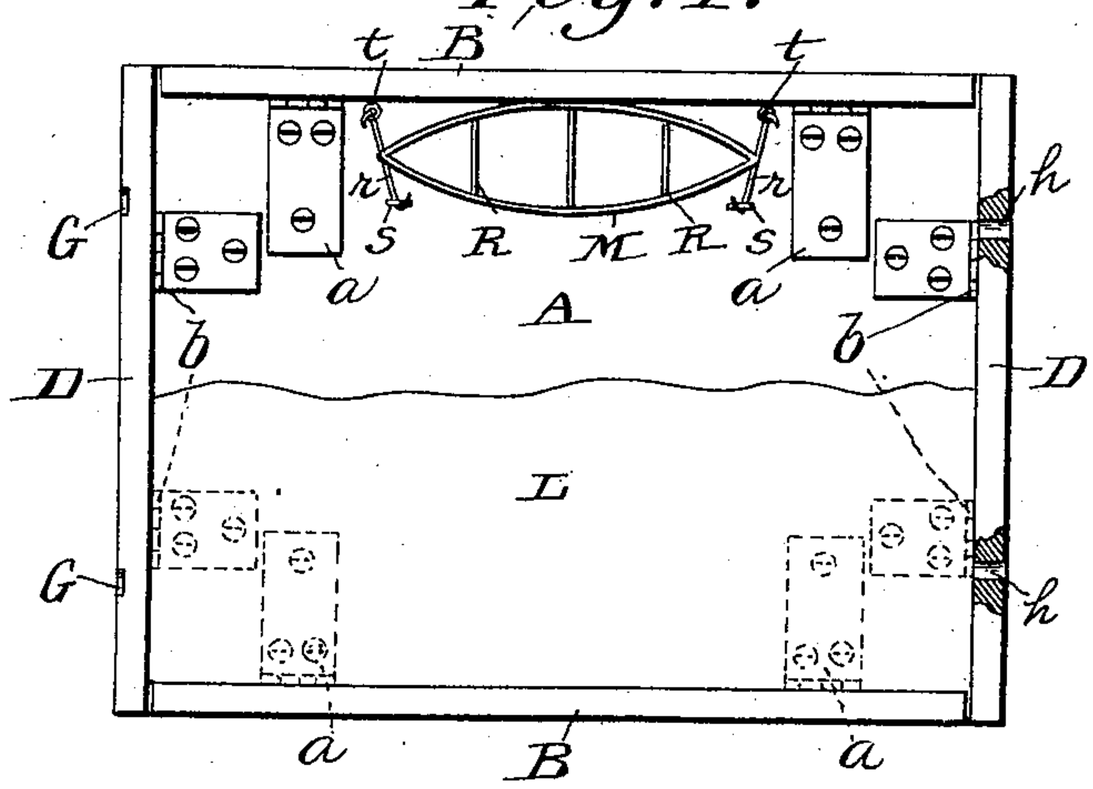


Fig. 4.



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No. 616,162. Patented Dec. 20, 1898.

Z. B. TAYLOR.

FOLDING CRATE.

(Application filed June 18, 1898.)

(No Model.) 2 Sheets—Sheet 2.

Fig. 5.

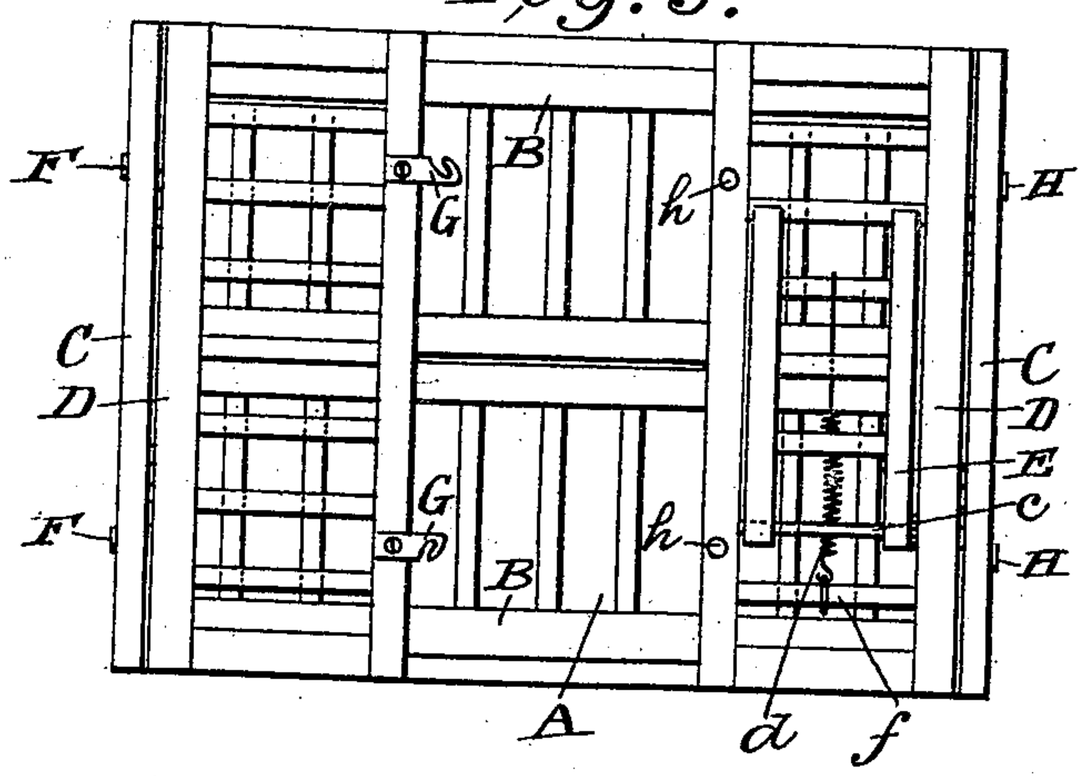


Fig. 6.

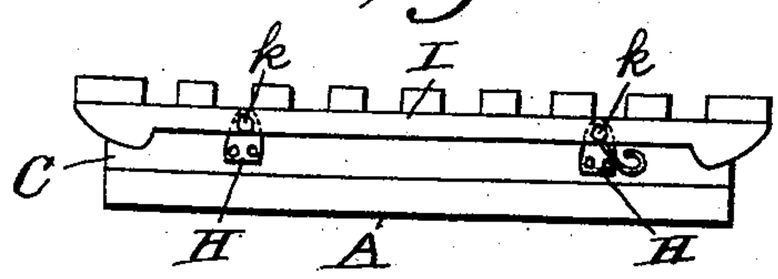
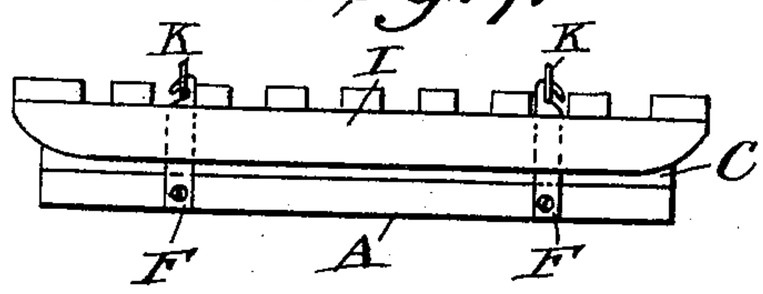


Fig. 7.



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UNITED STATES PATENT OFFICE.

ZANE BLAND TAYLOR, OF ORBISONIA, PENNSYLVANIA.

FOLDING CRATE.

SPECIFICATION forming part of Letters Patent No. 616,162, dated December 20, 1898.

Application filed June 18, 1898. Serial No. 683,850. (No model.)

To all whom it may concern:

Be it known that I, ZANE BLAND TAYLOR, a citizen of the United States of America, and a resident of Orbisonia, county of Huntingdon, State of Pennsylvania, have invented certain new and useful Improvements in Folding Crates, of which the following is a specification.

The object of my invention is to provide a folding crate which can be easily and quickly set up or folded down to the smallest possible thickness for reshipment when not in use for shipping poultry, &c.

The nature of my invention will be described below and pointed out in the claims.

In the drawings, Figure 1 is a top plan view. Fig. 2 is an end view. Fig. 3 is an opposite end view. Fig. 4 is a plan view, the cover removed. Fig. 5 is a plan view, the cover removed and the crate folded. Figs. 6 and 7 are end views, the crate folded.

Like letters refer to like parts.

A is the bottom board. B are the folding sides attached to said board by strap-hinges *a*. The sides B when folded down are flush with the top of the end cleats, described below, and the ends of sides B opposite to the hinges abut at a longitudinal line drawn through the center of the bottom board.

On the upper face of board A and at the ends are raised cleats C, and to these are hinged at *b* the folding ends D. In one of these ends there is a door E, turning on vertical metal rod *c* and held closed by spring *d*, attached at one end to one of the rods *f* of the folding end and at the other to a like rod in the door. At one end of the bottom board and the cleat above it are fastened vertical catches F, of metal, and above, in line with these, like catches G of less length are fastened to one end of the top strip of the folding end. At the opposite end of the crate metal eyes H are fastened to the outside of the cleat C, and above, in line with these, the folding end has in its top strip metal sockets or dowels *h*. The purpose of these eyes and dowels is to receive the dowel-pins *k* on the inside of one end of cover I. Near the other end of said cover, suitably attached to a slat *i*, are spring-latches K, locking under catches F when the crate is folded or under catches G when the crate is set up, and in the first case the dowel-pins enter eyes H and in the latter dowels *h*. It will now be seen how the crate-cover is fastened down at different levels.

In Fig. 4, in broken section, L is a sheet of paper, gum, or oil-cloth resting on the bottom board. This sheet may be easily cleaned or removed or replaced by another. M is a boat-shaped receptacle, of gum or suitable material, with divisions R for feed and water. This is attached centrally by hooks *r*, engaging with screw-rings *s* in the bottom board and like rings *t* in the top strip of one of the folding sides. In this way the trough is held firm and may be readily attached or detached when the cover is removed.

By having receptacle M made of flexible material it can be easily stored away in the crate when the latter is folded for reshipment.

In folding the crate the sides are first turned down and do not then project above cleats C. The ends are next folded down upon the sides, the dowel-pins of the cover are now inserted in eyes H, and the latches K spring under catch F, when the crate will be folded into smallest possible space. To set up the crate, remove the cover, raise the ends and sides, and fasten on the cover by inserting the dowel-pins in dowels *h* and springing latches K into catches G.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. As an article of manufacture, a folding crate, composed of a bottom board having at one end a raised cleat and vertical catches extending above said cleat, and at the other a raised cleat provided with metal eyes, sides hinged to the bottom board and folding down flush with the top of said cleats, ends hinged to the inner face of the cleats, one end having vertical catches on a line with those on the bottom board, and the other having dowels on a line with the eyes on the cleat below, and a cover provided at one end with dowel-pins and at the other with horizontal spring-latches suitably attached to a slat of said cover, as set forth.

2. As an article of manufacture, a folding crate, composed of a bottom board having at one end a raised cleat and vertical catches extending above said cleat, and at the other a raised cleat provided with metal eyes, sides

hinged to the bottom board and folding down flush with the top of said cleats, ends hinged to the inner face of said cleats and folding down upon the sides, one end having vertical catches on a line with those on the bottom board, and the other having dowels on a line with the eyes on the cleat below and a door turning on a vertical rod and held closed by a spring attached at one end to one of the rods of the folding end and at the other to a rod in the door, and a cover provided at one end with dowel-pins and at the other with horizontal spring-latches suitably attached to a slat of said cover, as set forth.

Signed by me at Orbisonia, Pennsylvania, this 13th day of June, A. D. 1898.

ZANE BLAND TAYLOR.

Witnesses:

E. CLARK,

MAY CAROTHERS.