

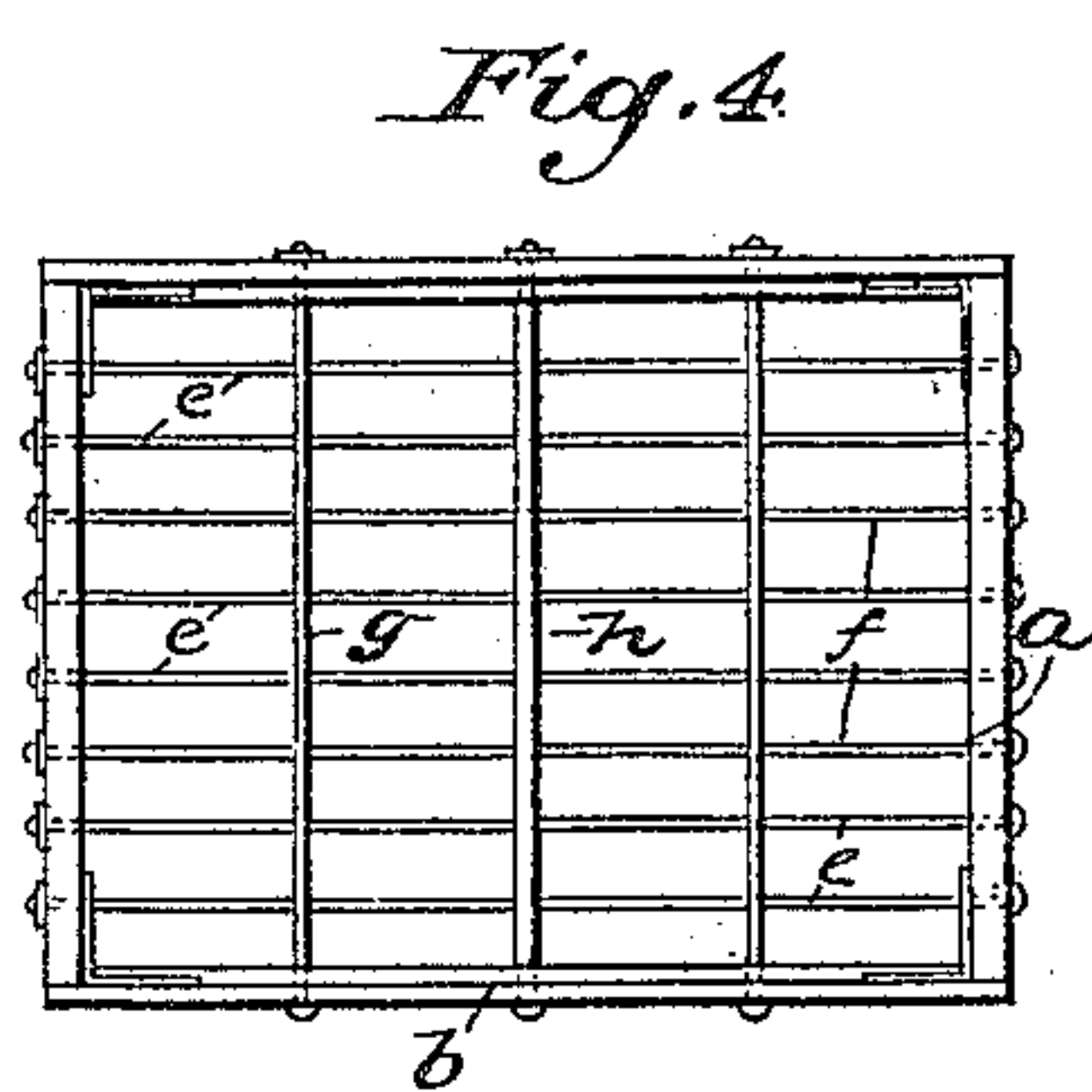
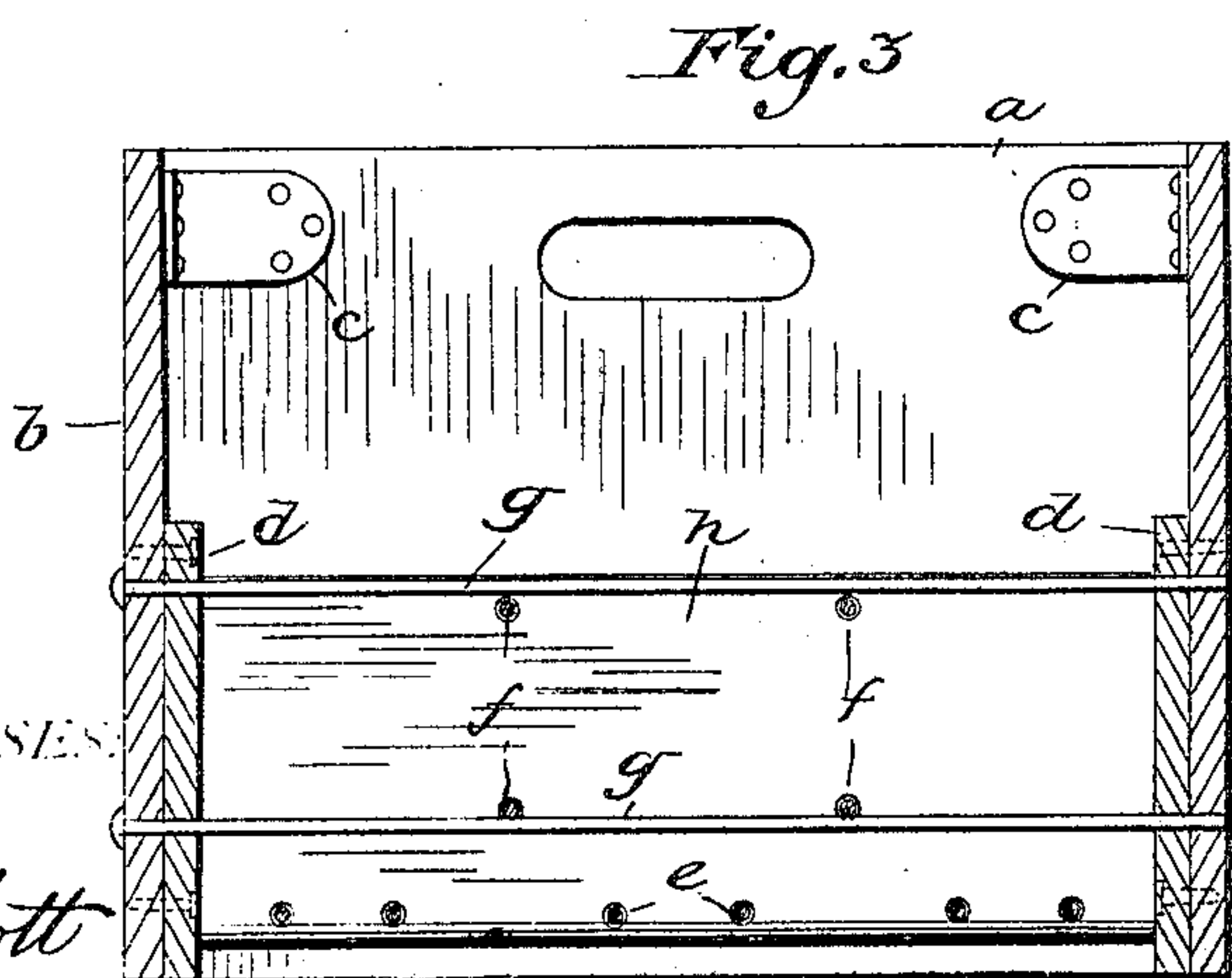
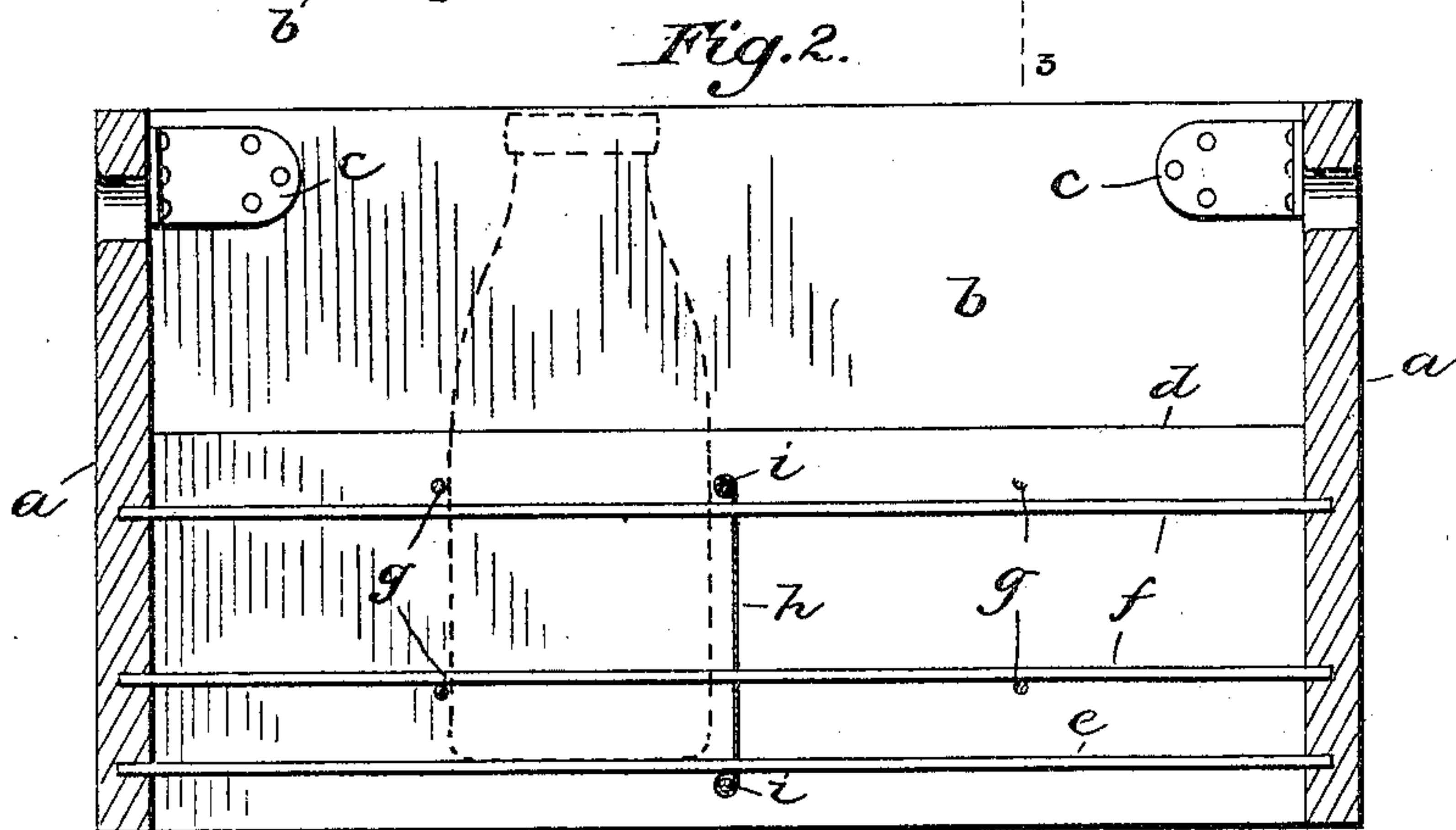
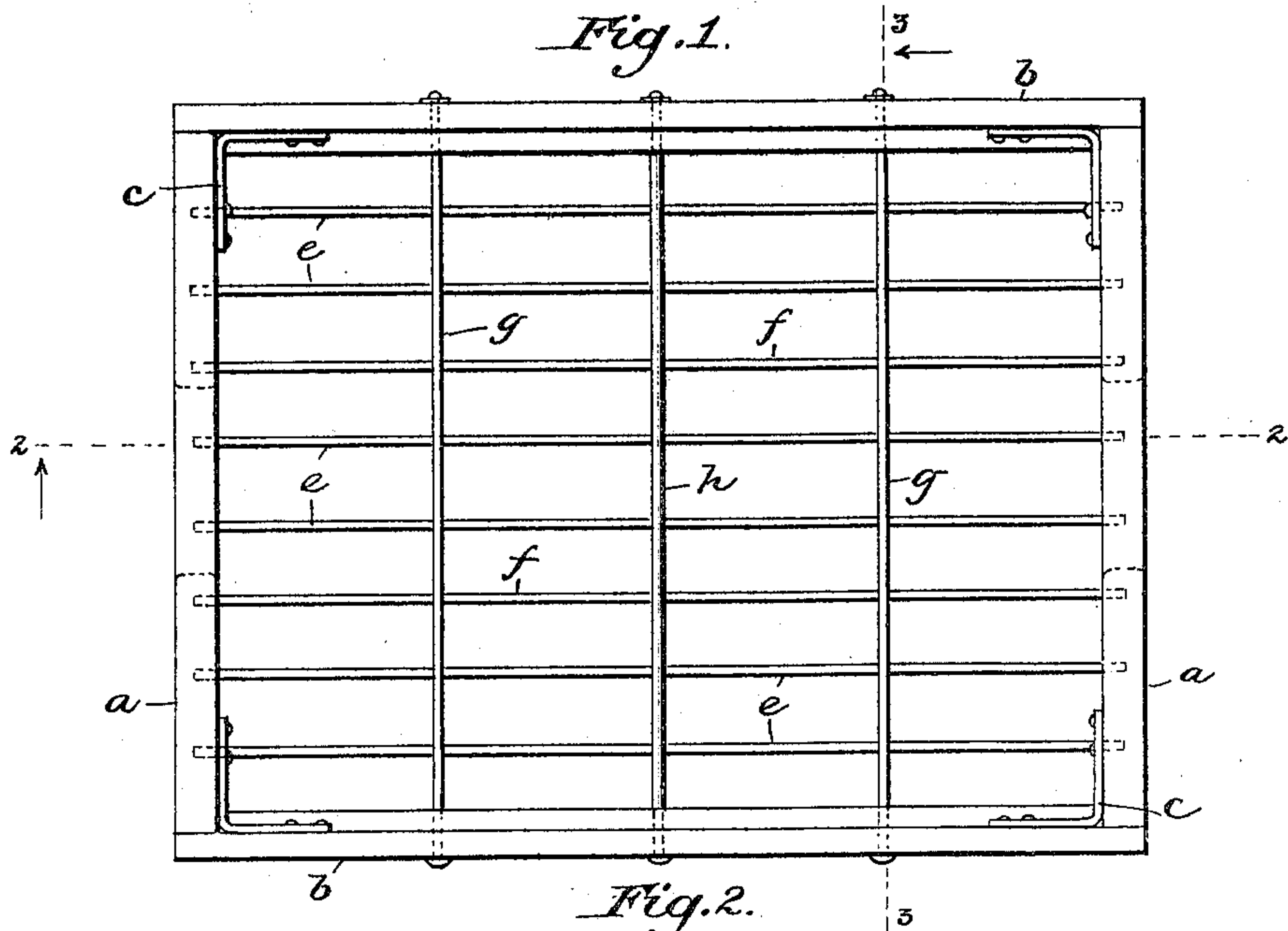
No. 804,081.

PATENTED NOV. 7, 1905.

C. S. ADAMS & A. J. RICE.

BOTTLE CASE OR CRATE.

APPLICATION FILED OCT. 27, 1904.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CHARLES S. ADAMS AND ALBERT J. RICE, OF BUFFALO, NEW YORK.

## BOTTLE CASE OR CRATE.

No. 804,081.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed October 27, 1904. Serial No. 230,235.

*To all whom it may concern:*

Be it known that we, CHARLES S. ADAMS and ALBERT J. RICE, citizens of the United States, residing in Buffalo, county of Erie, State of New York, have invented certain new and useful Improvements in Bottle Cases or Crates; and we 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 bottle cases or crates, and has for its object to provide a simple, strong, and durable device for holding a series of bottles—such, for instance, as milk-bottles—while said bottles are being washed, sterilized, filled, and transported; and to this end the invention comprises a case or crate consisting of an open framework having a bottom formed of spaced rods with longitudinal and transverse rods dividing the case into sections and a cross-partition supported at its top and bottom by transverse rods, said partition supporting the bottom and longitudinal rods intermediate their ends.

In the accompanying drawings, Figure 1 is a plan view of the case or crate. Fig. 2 is a vertical section on the line 2 2 of Fig. 1. Fig. 3 is a transverse section on the line 3 3 of Fig. 1. Fig. 4 is a plan view of a modified form of case or crate.

Referring to the drawings, *a a* and *b b* indicate the ends and sides, respectively, of an opened rectangular frame, the said ends and sides being preferably formed of wood connected at their corners by interior angular brackets *c*. The sides *b b* are strengthened and reinforced by battens *d d*, which are secured to the lower portion of the sides by means of suitable nails or screws.

The bottom of the case or crate is formed by a series of parallel-spaced wire rods *e*, which in the preferred form of the invention are held in place by boring suitable holes to receive the ends of the rods part way through the ends *a a* of the crate.

Above the bottom the case is divided into a series of compartments or cells by longitudinal rods *f* and transverse rods *g*, each cell or compartment being adapted to receive a single bottle. The longitudinal rods are

preferably secured to the ends in the same way that the bottom rods are—that is to say, the ends of said rods are let into holes bored part way through the case ends. The object of so securing the longitudinal rods and bottom rods is to avoid the objectionable projections on the box ends which would result if the rods extended all the way through and were secured in the usual way by riveting or upsetting the rod ends against the outside of the case.

In order to support the bottom rods and the longitudinal dividing-rods and to stiffen the entire case or crate, a cross-partition is secured between the sides of the case in such manner as to engage the bottom rods and the longitudinal division-rods and to hold the sides of the case at a proper distance apart. This partition consists, preferably, of a sheet-metal plate *h*, provided with beads or looped portions along the top and bottom edge thereof, within each of which beads or loops is inserted a rod or rivet *i*, which passes through the case sides to hold the partition securely in position, said partition being perforated at appropriate points to permit the bottom rods and longitudinal rods to pass through the same and to be supported by said plate intermediate the ends of said rods. In long crates of course two or more supporting-partitions may be employed to hold the rods in proper position.

It is to be observed that a case or crate thus constructed is light, strong, and durable and is readily accessible for cleaning or repair.

What we claim is—

A bottle case or crate comprising an open frame, spaced rods forming a bottom, longitudinal and transverse rods dividing the case into sections, a cross-partition supporting the bottom rods and the longitudinal rods intermediate their ends, said partition having a bead at top and bottom, and cross-rods in said beads secured to the sides of the crate.

In testimony whereof we affix our signatures in presence of two witnesses.

CHARLES S. ADAMS.  
ALBERT J. RICE.

Witnesses:

WALTER L. CURTISS,  
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