

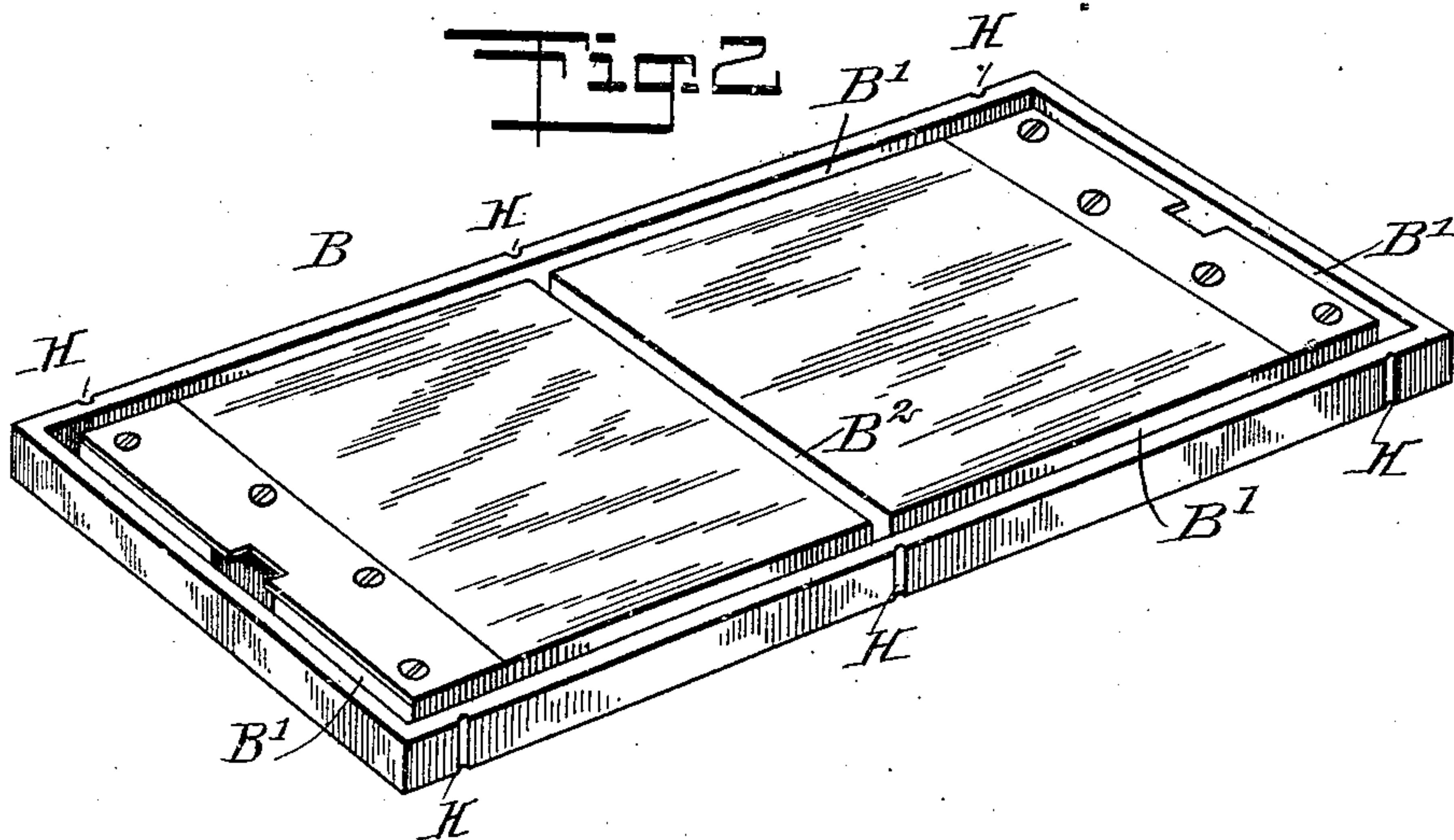
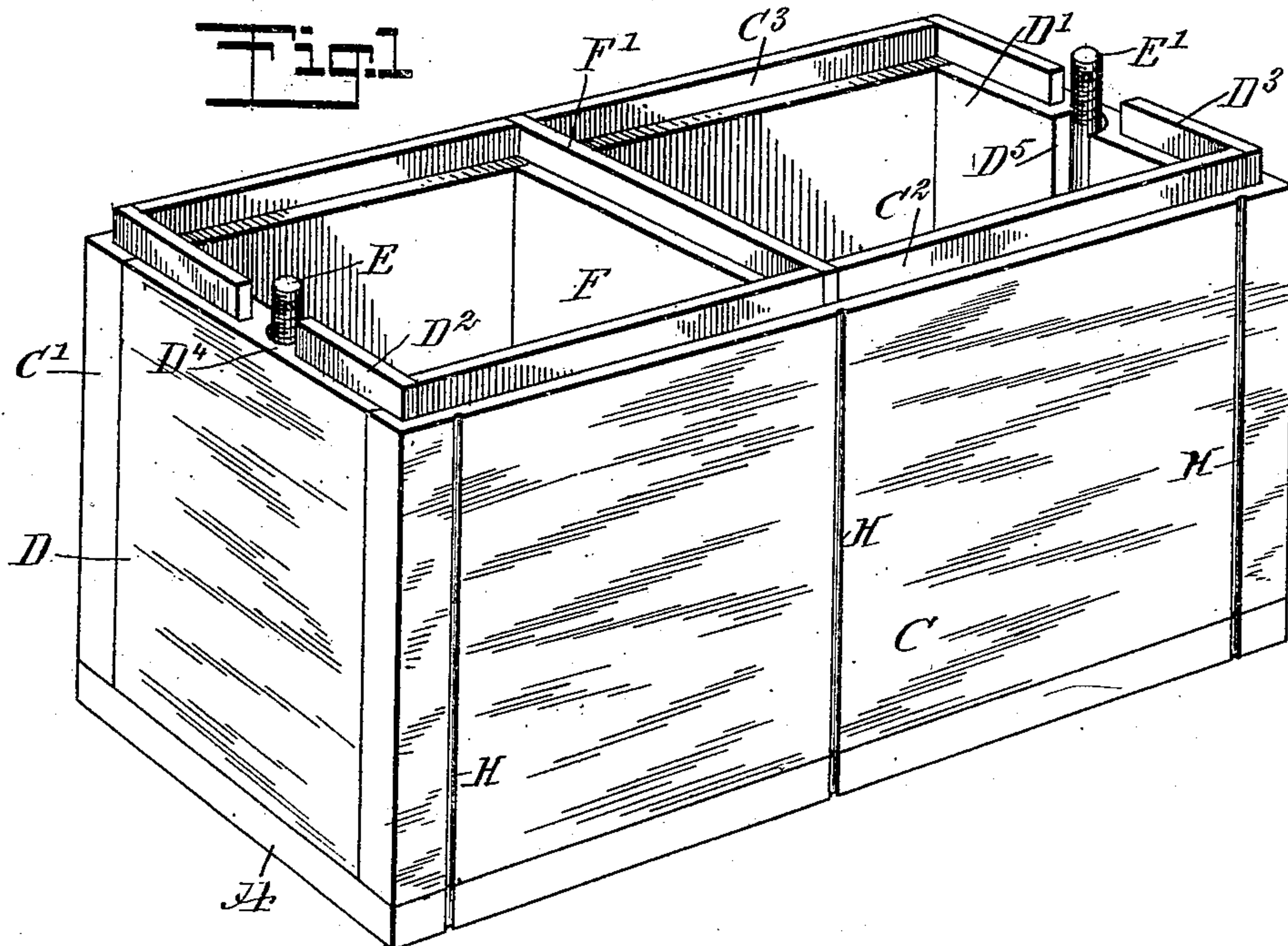
No. 875,548.

A. N. MILLER.
KNOCKDOWN BOX.

PATENTED DEC. 31, 1907.

APPLICATION FILED SEPT. 13, 1906.

2 SHEETS—SHEET 1.



WITNESSES

F. D. Sweet.
Rev. J. Hooper.

INVENTOR

Alfred N. Miller

BY *Mumford*

ATTORNEYS

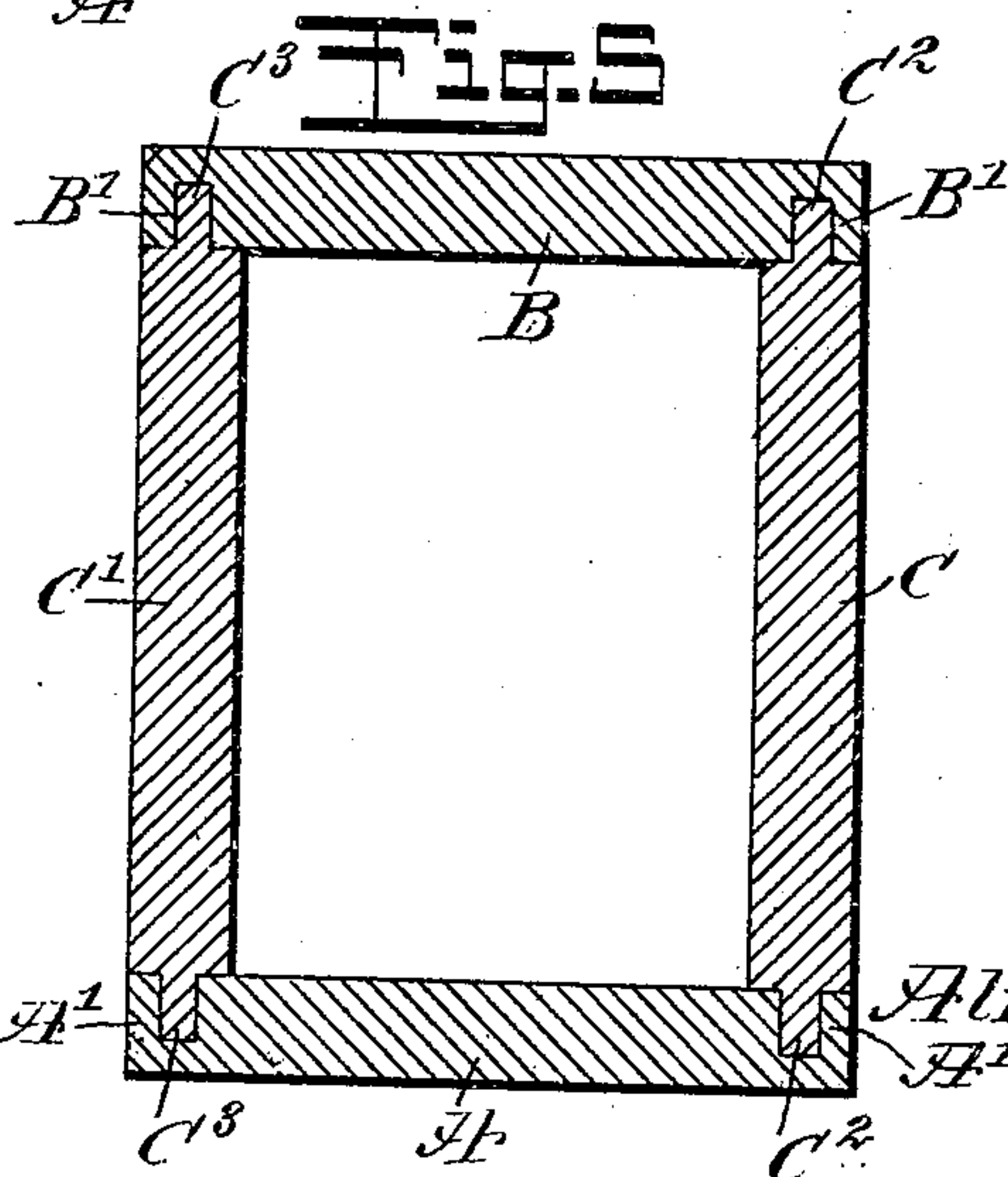
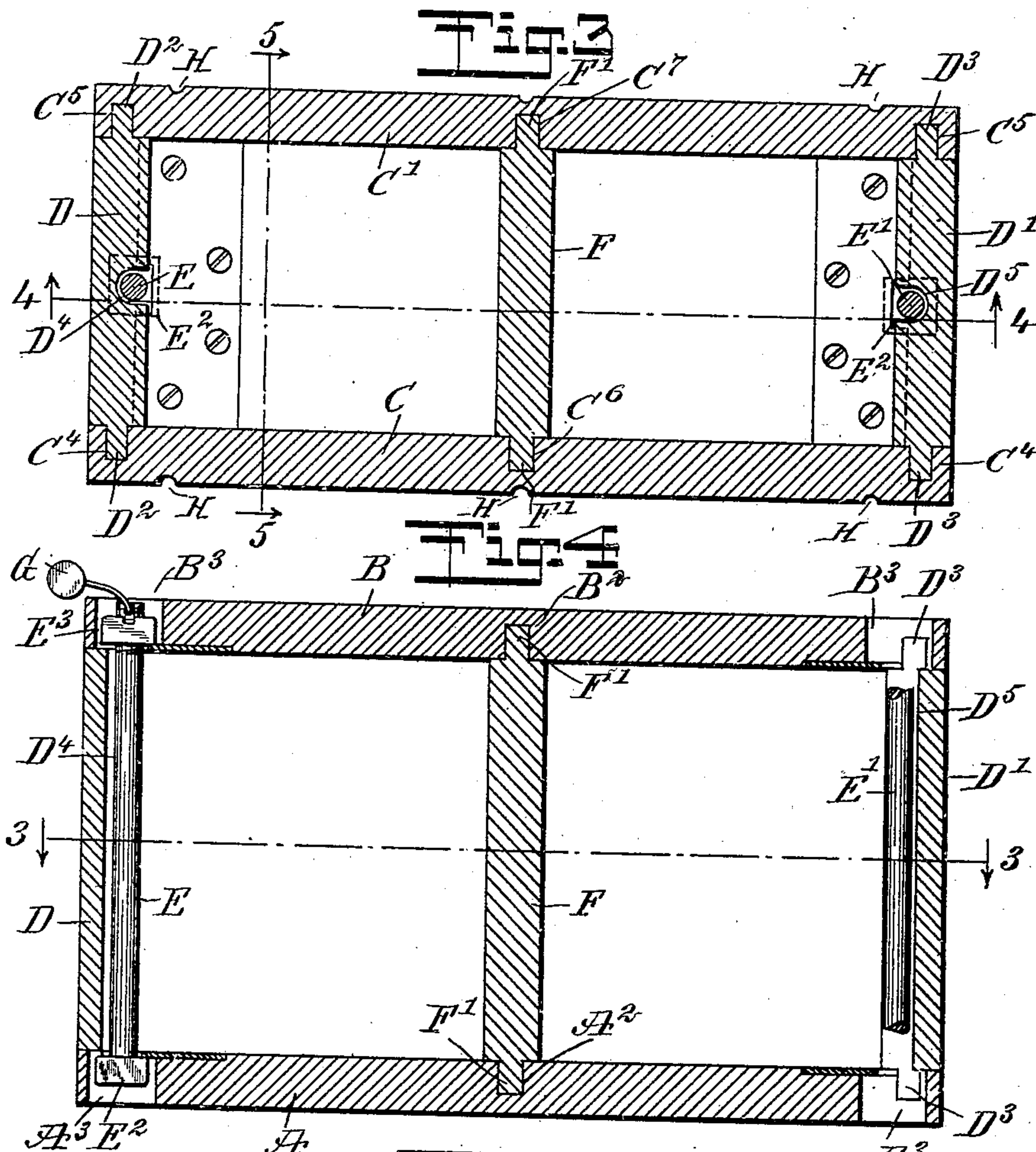
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UNITED STATES PATENT OFFICE.

ALFRED NEWTON MILLER, OF EVANSVILLE, INDIANA.

KNOCKDOWN BOX.

No. 875,548.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed September 13, 1906. Serial No. 334,422.

To all whom it may concern:

Be it known that I, ALFRED NEWTON MILLER, a citizen of the United States, and a resident of Evansville, in the county of Vanderburg and State of Indiana, have invented a new and Improved Knockdown Box, of which the following is a full, clear, and exact description.

The invention relates to wooden receptacles, and its object is to provide a new and improved knock down box for shipping eggs, oranges, bottled goods and the like, and arranged to permit convenient knocking down of the parts for packing the same into a small package, to be returned to the shipper for re-assembling of the parts and reuse of the box.

The invention consists of novel features and parts and combinations of the same, which will be more particularly described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the box body; Fig. 2 is a like view of the cover inverted; Fig. 3 is a view of a horizontal section of the improvement on the line 3—3 of Fig. 4; Fig. 4 is a sectional side elevation of the same on the line 4—4 of Fig. 3, and Fig. 5 is a cross section of the same on the line 5—5 of Fig. 3.

The knock down box in its general construction consists of a bottom A, a top B, sides C, C' and ends D, D', the bottom A and the top B being connected with each other by bolts E, E', to hold the several parts securely in a locked position. The top B is provided near its outer edge with a continuous mortise B' and a similar mortise A' is formed in the upper side of the bottom A. The sides C, C' as well as the ends D, D' are provided with tenons C², C³, D², D³ fitting the corresponding mortises, it being understood that the side portions of the tenons D², D³ also fit mortises C⁴, C⁵ in the sides C, C'. The bolts E and E' for locking the top of the cover B in place and for fastening the several parts in position fit into recesses D⁴, D⁵ formed on the inner faces of the ends D and D', and the heads E² of the said bolts E, E' fit into recesses A³ formed in the bottom A, and the nuts E³ of the said bolts E, E' fit into recesses B³

formed in the top of the cover B of the box, so that the latter has no undesirable projecting parts, as will be readily understood by reference to the drawings.

If desired, the interior of the box body may be divided into two compartments, and for this purpose a partition F may be employed having a continuous tenon F' fitting corresponding mortises A², B², C⁶, C⁷ in the bottom A, the top B and the sides C, C', respectively.

From the foregoing it will be seen that by the arrangement described the several parts constituting the box are snugly fitted together by tenons and mortises, to insure the formation of an exceedingly strong and durable box, and one that is practically rendered air and moisture proof.

It will also be noticed that the cover B can be readily removed from the box by unscrewing the nuts E³, to permit convenient access to the interior of the box, and by removing the bolts E and E' and pulling the several parts apart it is evident that the box can be conveniently knocked down and its parts folded into a small package which can be economically returned to the shipper for reassembling of the parts and reuse of the box.

The nuts E³ of the bolts E and E' are preferably provided on top with slots for turning the nuts by the use of a screw-driver engaged with the said slots. The upper end of one or each of the bolts E and E' is preferably provided with an aperture for the attachment of a seal G to enable the shipper to seal the cover B and thus prevent tampering with the box.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

A knock down box, comprising a top, bottom, ends, and sides, said top and bottom being provided on their inner faces with a continuous marginal groove, the sides being provided on their ends with a transverse groove, and on their side edges with tenons for engaging the groove on the top and the bottom, said ends being provided on their edges with tenons engaging the edges of the top, bottom and sides, said top, bottom and sides being provided at approximately their center with transverse grooves, and a partition having tenons fitting within each of said

grooves, and bolts extending through the box
at each end, the bottom being recessed on its
outer face for receiving the heads of the bolts,
the top being recessed for receiving the nuts,
5 and the ends being recessed on their inner
faces for receiving the bolts.

In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

ALFRED NEWTON MILLER.

Witnesses:

JOHN BROWNLEE,

CHAS. D. ENES.