

(No Model.)

W. C. DOUBLEDAY.

FOLDING CRATE.

No. 333,000.

Patented Dec. 22, 1885.

Fig. 1.

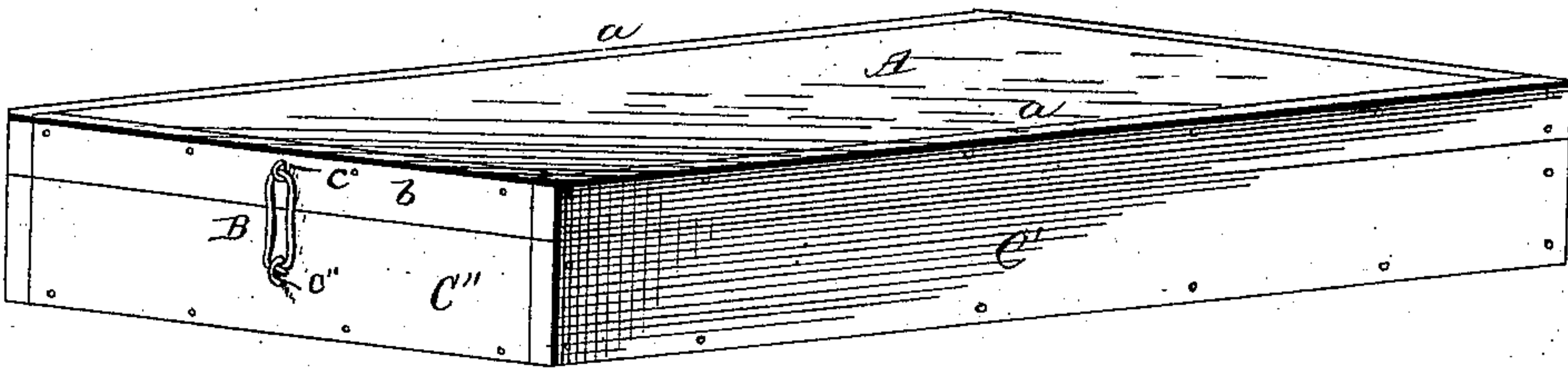


Fig. 2.

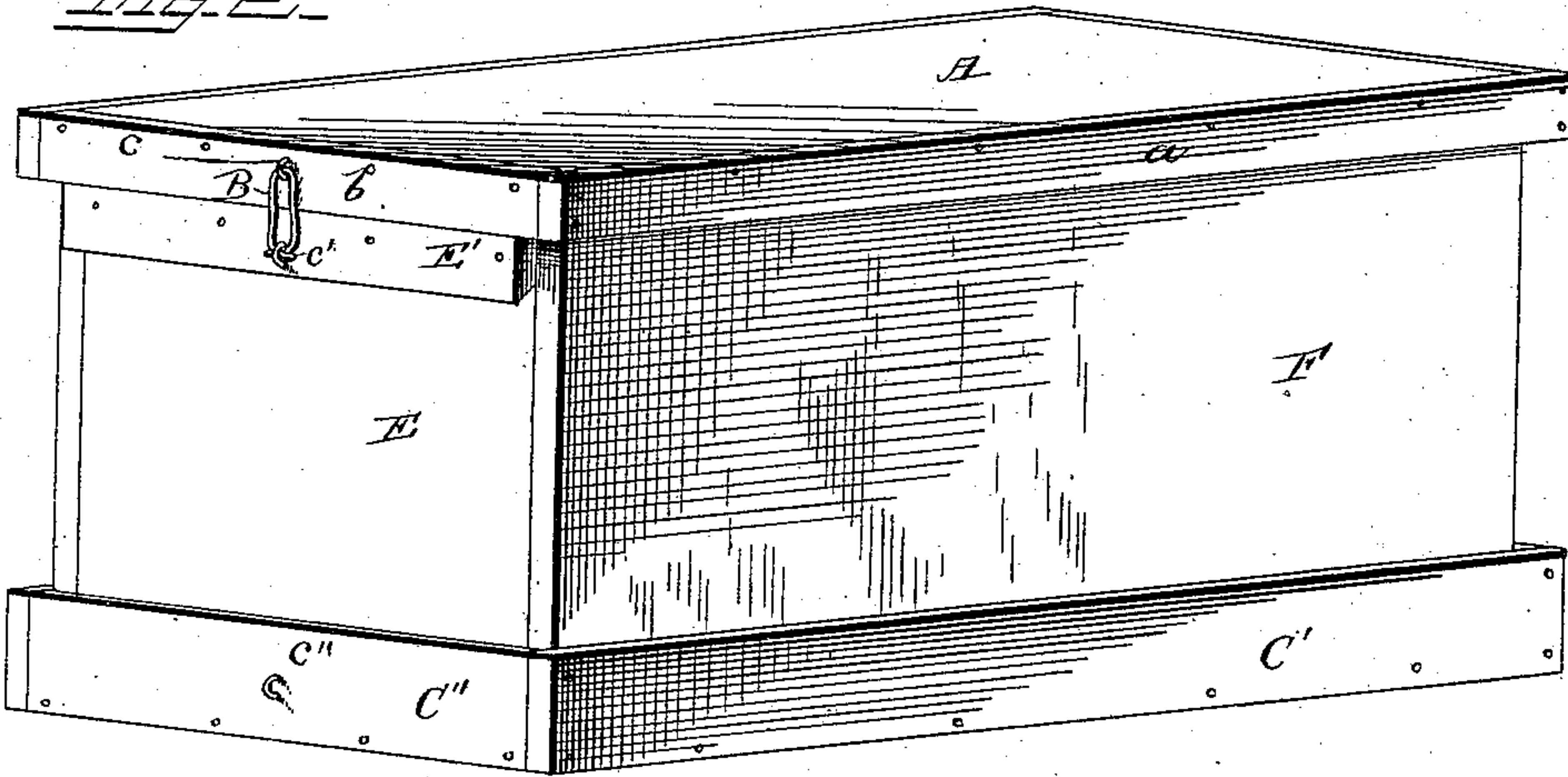


Fig. 3.

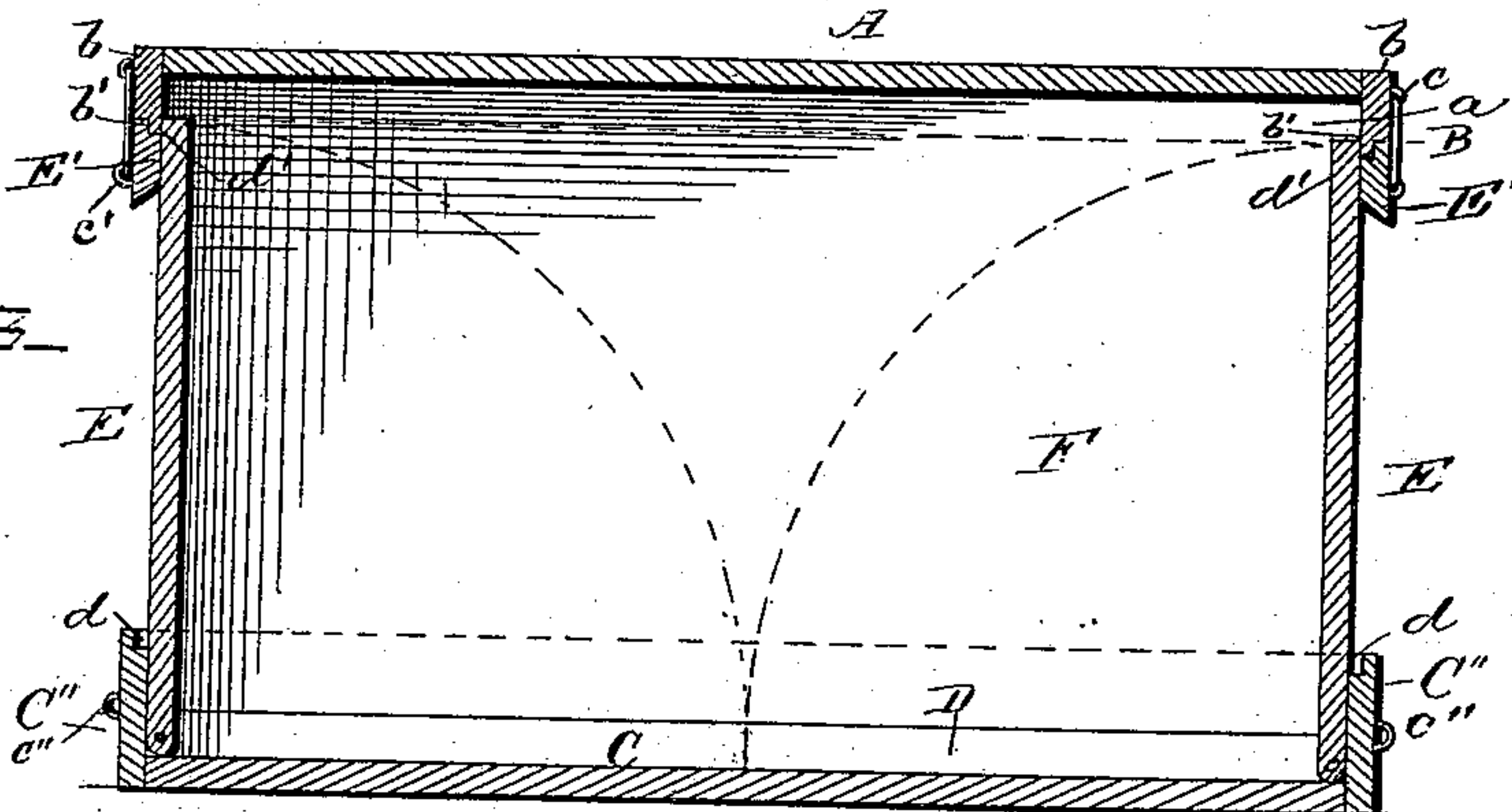
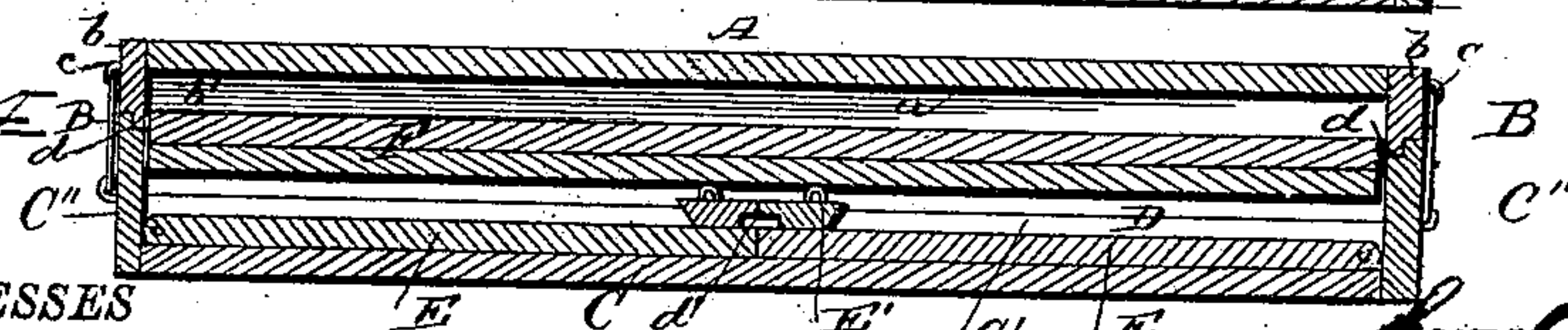


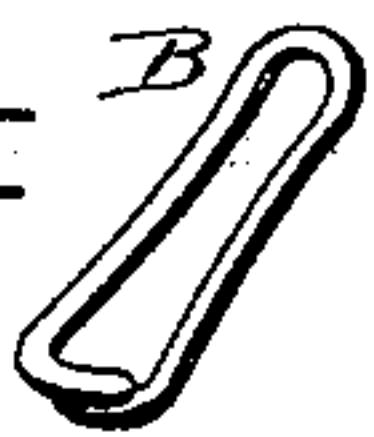
Fig. 4.



WITNESSES

F. L. Ourand
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Fig. 5.



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INVENTOR

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UNITED STATES PATENT OFFICE.

WILLIAM C. DOUBLEDAY, OF LIMA, OHIO.

FOLDING CRATE.

SPECIFICATION forming part of Letters Patent No. 333,000, dated December 22, 1885.

Application filed October 22, 1885. Serial No. 180,649. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. DOUBLEDAY, a citizen of the United States of America, residing at Lima, in the county of Allen and State of Ohio, have invented certain new and useful Improvements in Folding Crates; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in folding crates, the object of my invention being to provide a packing-case the parts of which can be folded, so as to lie within the top and bottom sections and occupy but little space, the crate being provided with fastenings which will hold the parts together when opened and closed; and to this end my invention consists in a folding crate the construction of which will be hereinafter fully set forth and the invention specifically claimed.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of the crate, showing the parts folded so as to occupy but little space. Fig. 2 is a perspective view showing the crate arranged for use. Fig. 3 is a longitudinal section of Fig. 2. Fig. 4 is a longitudinal section of Fig. 1, and Fig. 5 is a detail perspective view of a fastening-hook.

A represents the top of my improved crate, which is provided with longitudinal side pieces, *a a*, which are attached to the longitudinal edges of the top. This top A has also rigidly attached thereto end pieces, *b*, which are provided on their inner edges with depending tongues *b'*, which project beyond the lower edge of the side pieces, *a*. The end pieces, *b*, are provided centrally with staples *c*, through which pass the ends of the spring-hooks B, as shown in Fig. 5.

C represents the bottom section of my improved crate, said bottom section having longitudinal side pieces, *C'*, and end pieces, *C''*, which are rigidly attached to the bottom board. The end pieces, *C''*, are provided at their upper

inner edges with grooves *d*, and adjacent and parallel with the longitudinal side pieces, *C'*, and on their inner sides are attached strips D, to the ends of which are pivotally attached the end boards, E, said end boards being provided at their upper ends with transverse cleats E', said cleats having their upper edges on a line with the top of the end boards, and provided adjacent to said end boards with grooves *d'*, within which will lie the tongues *b'* on the strips *b*, attached to the top. The transverse cleats E' are provided with staples *c'*, with which the spring-hooks B will engage when it is desired to fold the crate in a position shown in Figs. 2 and 3, and when it is desired to retain the crate in a closed position these hooks engage with staples *c''*, attached to the end pieces, *C''*.

F F represent the side boards, which are of a length equal to the distance between the end pieces, *C''*, and these side boards, F, when the crate is folded, are adapted to be closed upon the end pieces, which are folded against the bottom board, as shown in Fig. 4, so that they can be packed away between the top and bottom sections.

The crate hereinbefore described is designed especially to be used in connection with cell-cases, the sections having the cells being ointed together so that they can be folded upon each other, and when folded they may be stowed away within the bottom and top sections of the crate.

By the construction hereinbefore described it will be seen that the parts when placed together will be self-supporting, and that a crate thus constructed is simple and cheap.

I claim—

1. In a folding crate, the combination of a top having depending side and end pieces, a bottom section with upwardly-projecting side and end pieces and having pivoted end boards, the parts being adapted to be secured to each other by hooks, and side boards, F, substantially as shown, and for the purpose set forth.

2. In a folding crate, a top section provided with end boards, *b*, which depend from the same, said end boards having tongues formed thereon, and provided with a hook or fastening device, in combination with a bottom section having upwardly-projecting end pieces with grooves on their inner sides and staples for the

hooks or fastening devices of the top section to be engaged with, so as to secure the parts upon each other substantially as shown, and for the purpose set forth.

5 3. In a folding crate, the top section, A, provided with end pieces, with depending tongues *b'*, said end pieces carrying fastening devices, a bottom section having the ends E pivoted thereto, said end pieces having at-
10 tached thereto adjacent to their upper edges transverse strips *E'*, with grooves *d'*, and devices for engaging with a fastening-hook attached to the top section, substantially as shown, and for the purpose set forth.

15 4. In a folding crate, the top section, A, provided with depending side and end pieces,

a bottom section, C, with upwardly-projecting side and end pieces, the boards E, pivotally attached to the bottom section, so as to fold within the same, and side pieces, F, and the 20 fastening devices B, for holding the top section upon the end boards, E, and to the bottom section, the parts being combined and organized substantially as shown, and for the purpose set forth.

25 In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM C. DOUBLEDAY.

Witnesses:

JOHN FRANKS,

CHARLES D. DOUBLEDAY.