

(No Model.)

C. MOULTON.
Packing Box.

No. 236,612.

Patented Jan. 11, 1881.

Fig. 1.

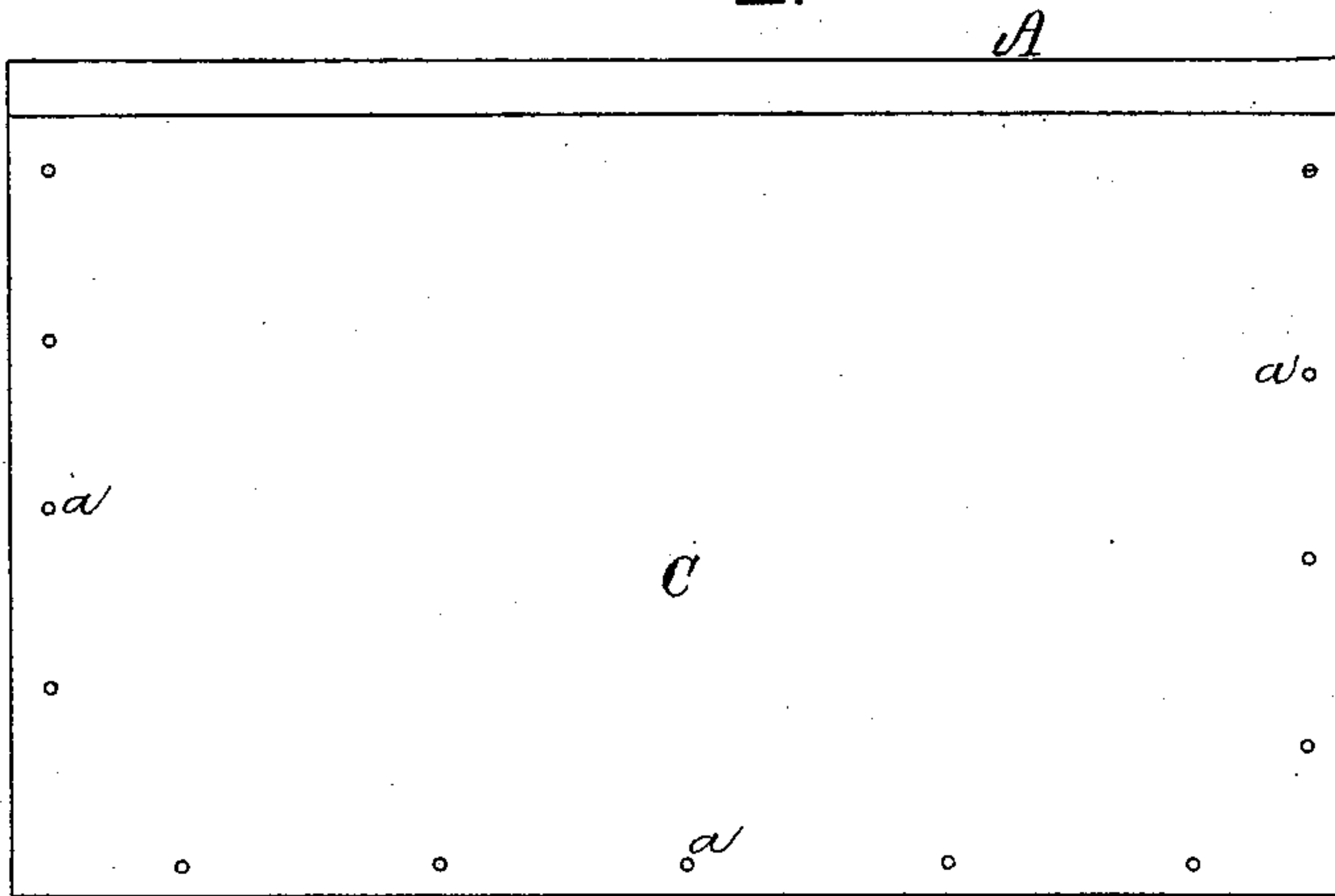


Fig. 2.

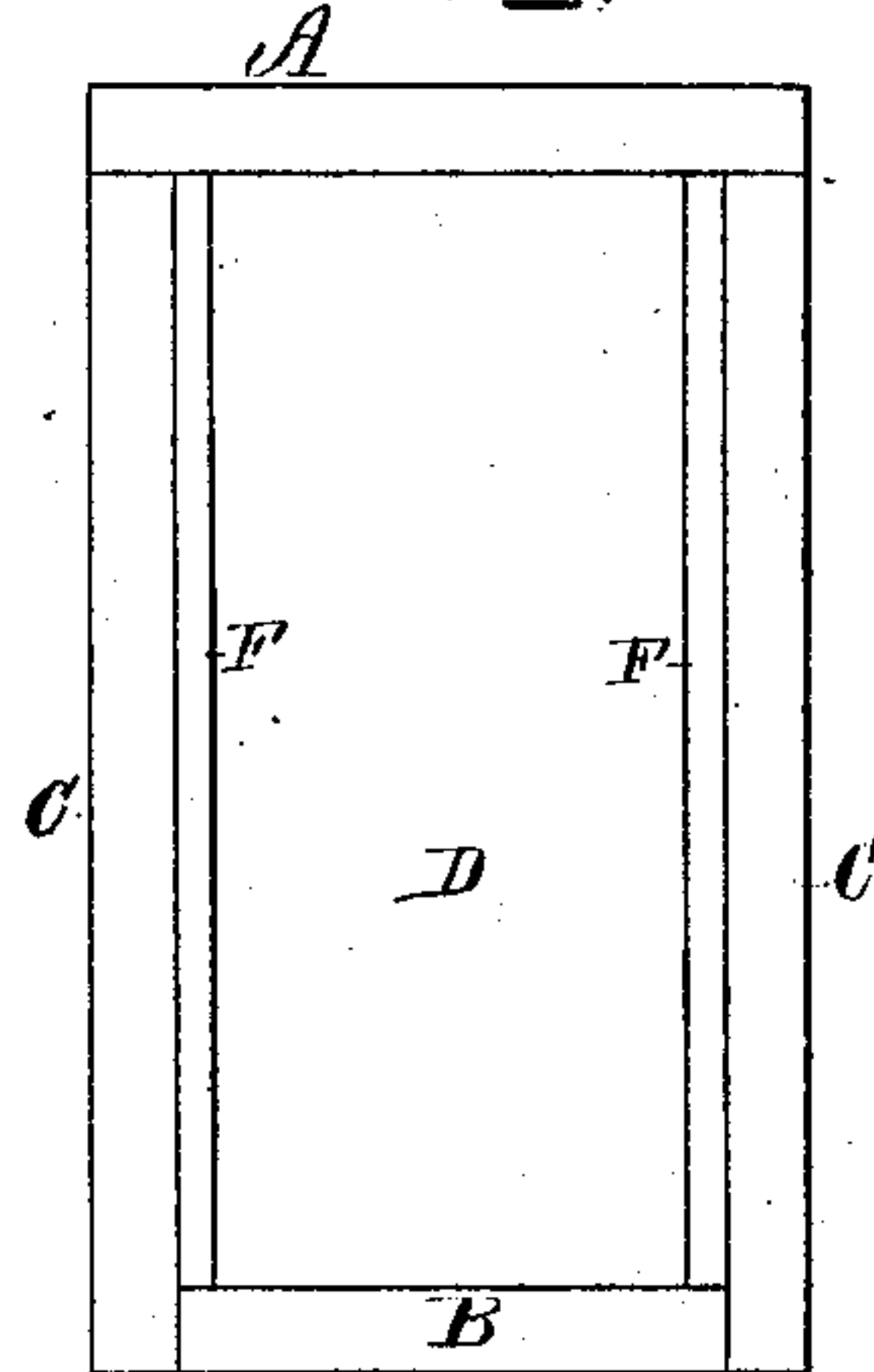


Fig. 4.

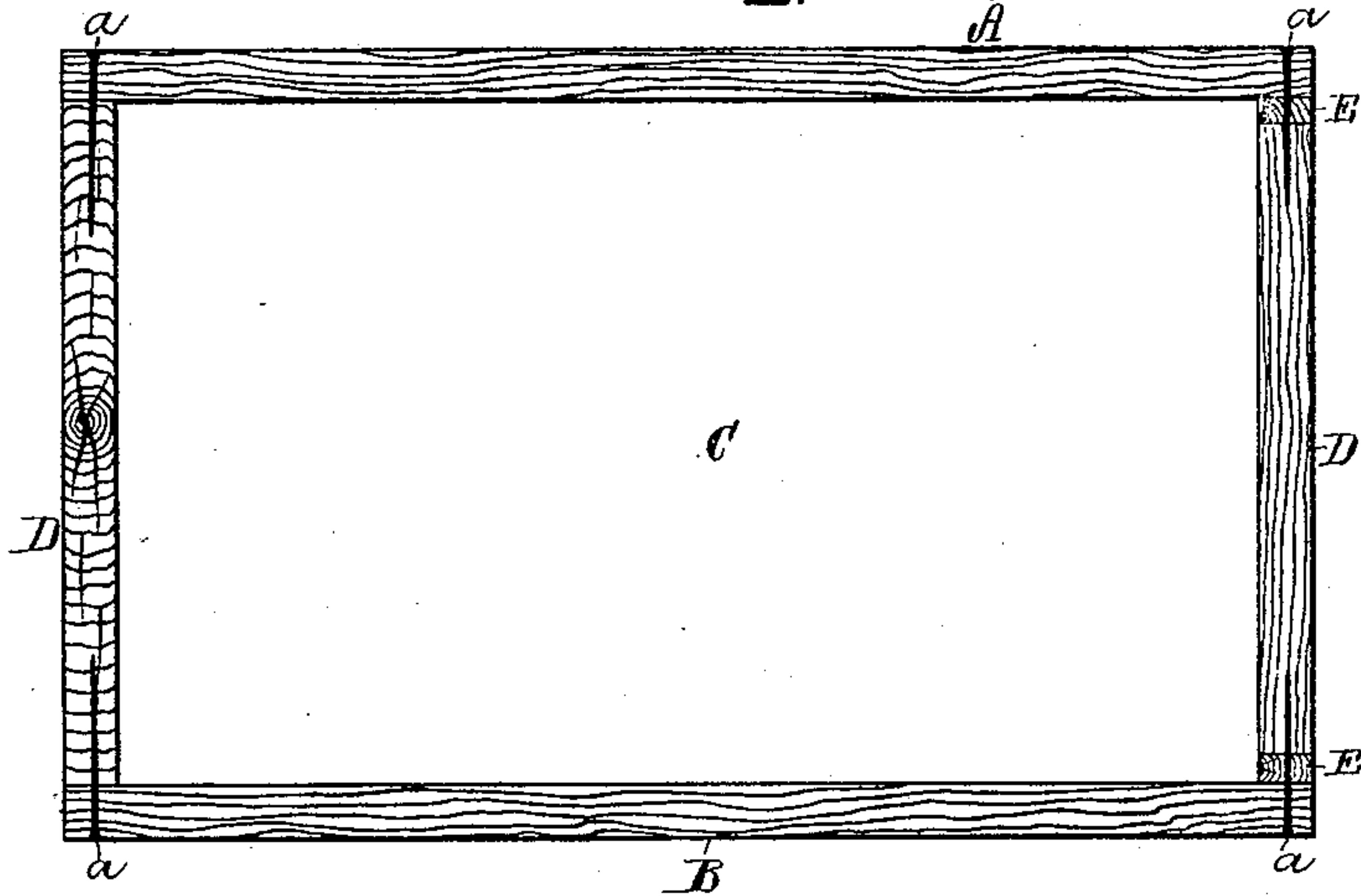


Fig. 3.

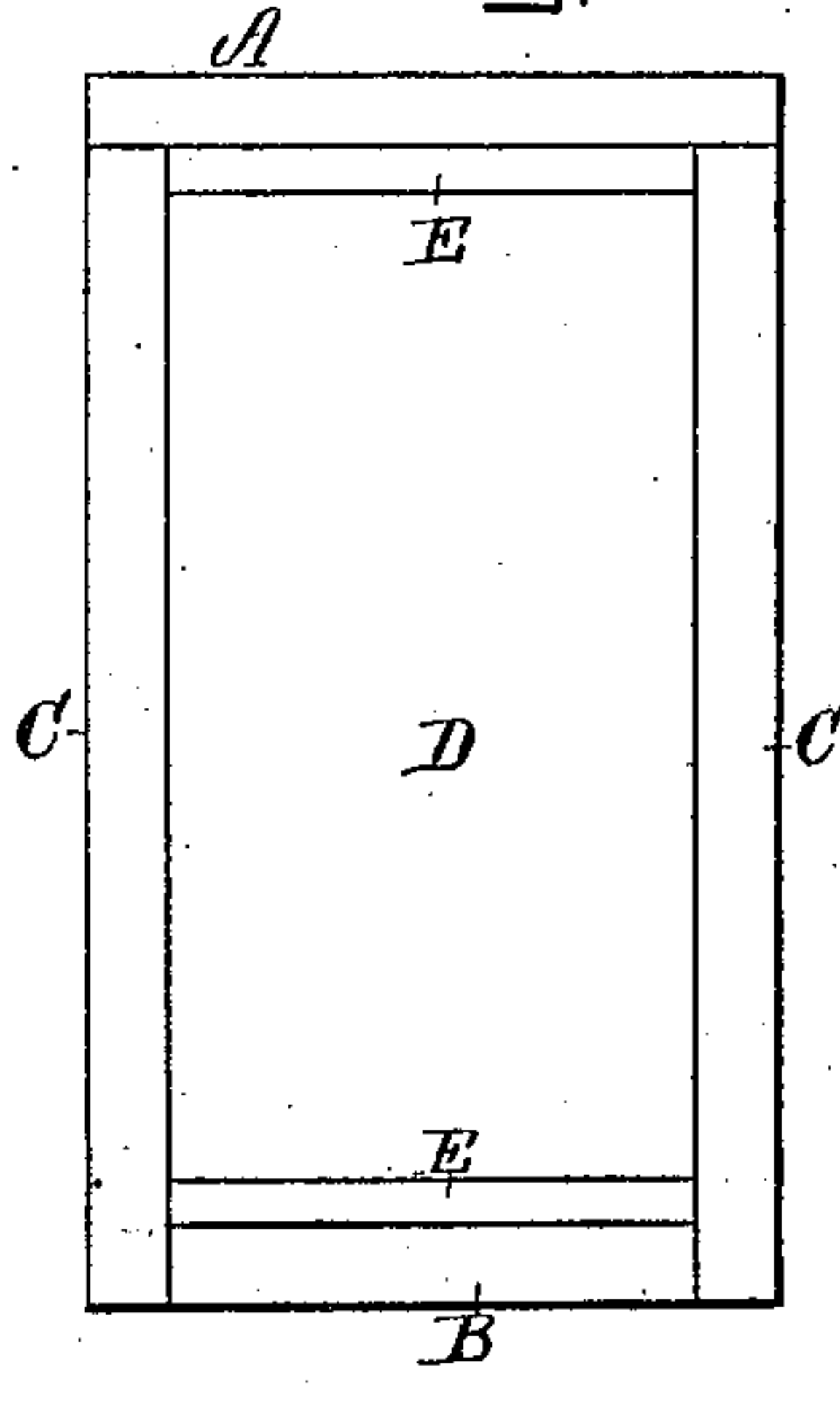
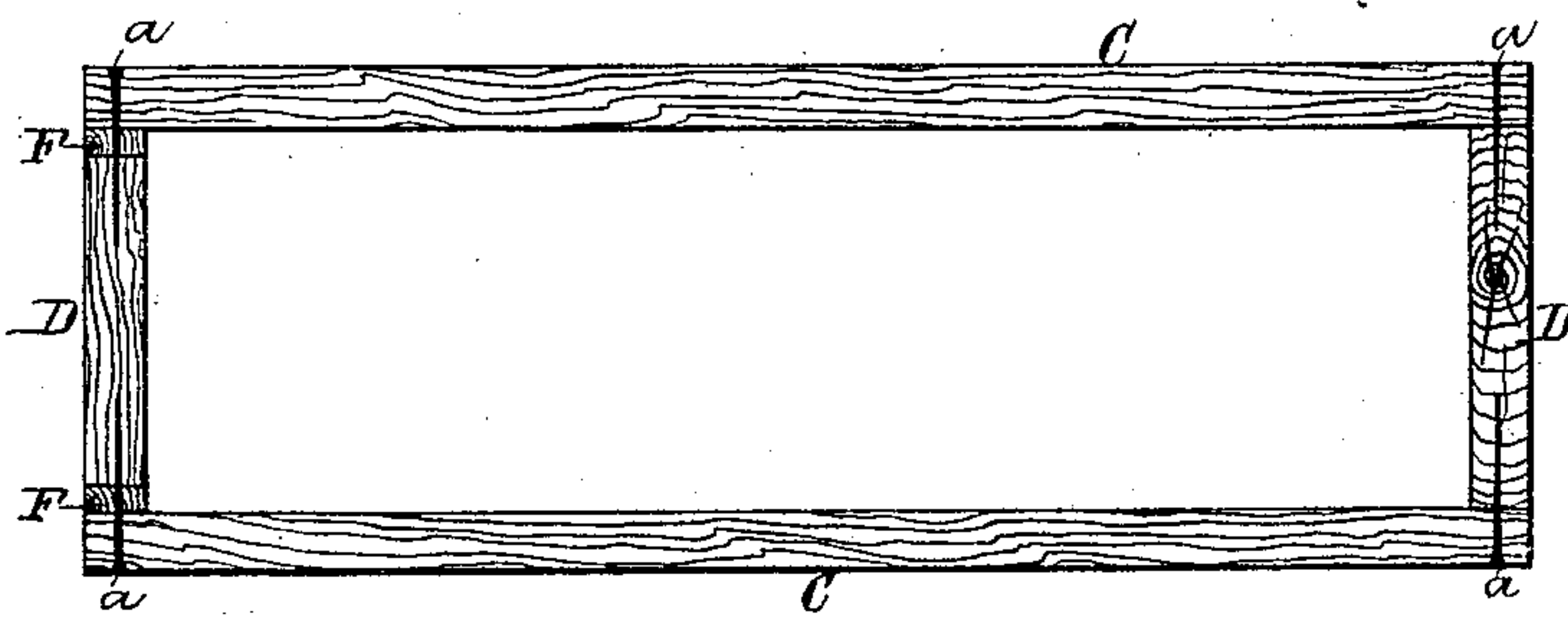


Fig. 5.



Witnesses.

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CHARLES MOULTON, OF SAXONVILLE, MASSACHUSETTS.

PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 236,612, dated January 11, 1881.

Application filed July 6, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES MOULTON, of Saxonville, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Packing-Boxes; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a side elevation, and Figs. 2 and 3 opposite end views; Fig. 4, a vertical and longitudinal section, and Fig. 5 a horizontal section, of a packing-box containing my invention, the nature of which is duly set forth in the claim hereinafter made.

The object of the invention is to prevent the pieces of wood composing the ends, sides, and top, and bottom of the box from shrinking and cracking, a difficulty generally experienced with shoe and various other packing-boxes as they have heretofore been constructed.

In the drawings, A denotes the top or cover, B the bottom, C C the two sides, and D D the two ends, of a packing-box. In the said box the cover, the bottom, and the two sides are supposed to be made with the grain of the wood running lengthwise of such. In one of the ends of the box the grain runs up and down, while in the other it runs transversely, or from one vertical edge to the other of the said end. The box end first mentioned is shorter than the distance between the cover and bottom of the box, the spaces between such end and the cover and bottom being filled by two re-enforces of wood, E E, or other suitable material, in each of which the grain runs lengthwise of it. The nails *a*, by which the bottom and the cover are secured to the said end piece, are driven through the two re-enforces, from which it will be seen that the said re-enforces operate to prevent shrinkage and splitting or cracking of the end, as well as of the cover and bottom.

In respect to the opposite end of the box two other re-enforces, F F, like those above described, are placed between its opposite vertical edges and the sides of the box, the nails by which the sides are secured to the said end piece going through such sides and end piece and the two re-enforces, in which case it will be seen that the said re-enforces operate to prevent the sides and end of the box from shrinking and cracking. Thus in a box so made each side, as well as each end and the

cover and bottom, are protected by re-enforces, arranged as shown, from cracking, the re-enforces operating besides to greatly strengthen the box.

It will be observed that, although the cover and bottom and each side are protected from splitting at one end of each by a re-enforce, the opposite end is also protected from splitting by the grain of the wood next it crossing the grain of such end. Thus, by arranging the grain of one end to run up and down such end, and that of the other end to run across it horizontally, or about so, and by arranging the grain of each of the sides and of the cover and bottom to run lengthwise thereof, and by arranging the re-enforces of one end between it and the sides, and those of the other end between it and the cover and bottom, we have, when the parts are nailed or glued together, a box in which there is little, if any, danger of either of its parts being cracked by shrinkage of it, and besides we have a box stronger than one of like size made without re-enforces.

I am aware that before my invention it has been common to re-enforce the sides and each of the ends of a box by means of strips of wood arranged to cross the grain thereof, and to be secured in place by nails driven through them and the next adjacent parts, and that it also was not new to re-enforce a joint by means of a strip laid therein and secured thereto by glue or cement or by nails driven through it and the parts against it. My invention, though embodying the principle of the re-enforce strip or strips, covers a special construction of a packing-box with re-enforces, whereby important advantages are gained, as stated.

What I claim as my invention is as follows, viz:

The improved box, made substantially as described—viz., with the grain of one end running up and down thereof, and with re-enforces arranged between the upper and lower edges of such end and the cover and bottom of the box, and with the grain of the other end, and arranged horizontally, or about so, and having re-enforces arranged between the said end and the sides of the box, the grain of each of the sides, as well as of the cover and bottom, running lengthwise thereof, all being essentially as set forth.

Witnesses: CHARLES MOULTON.

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