

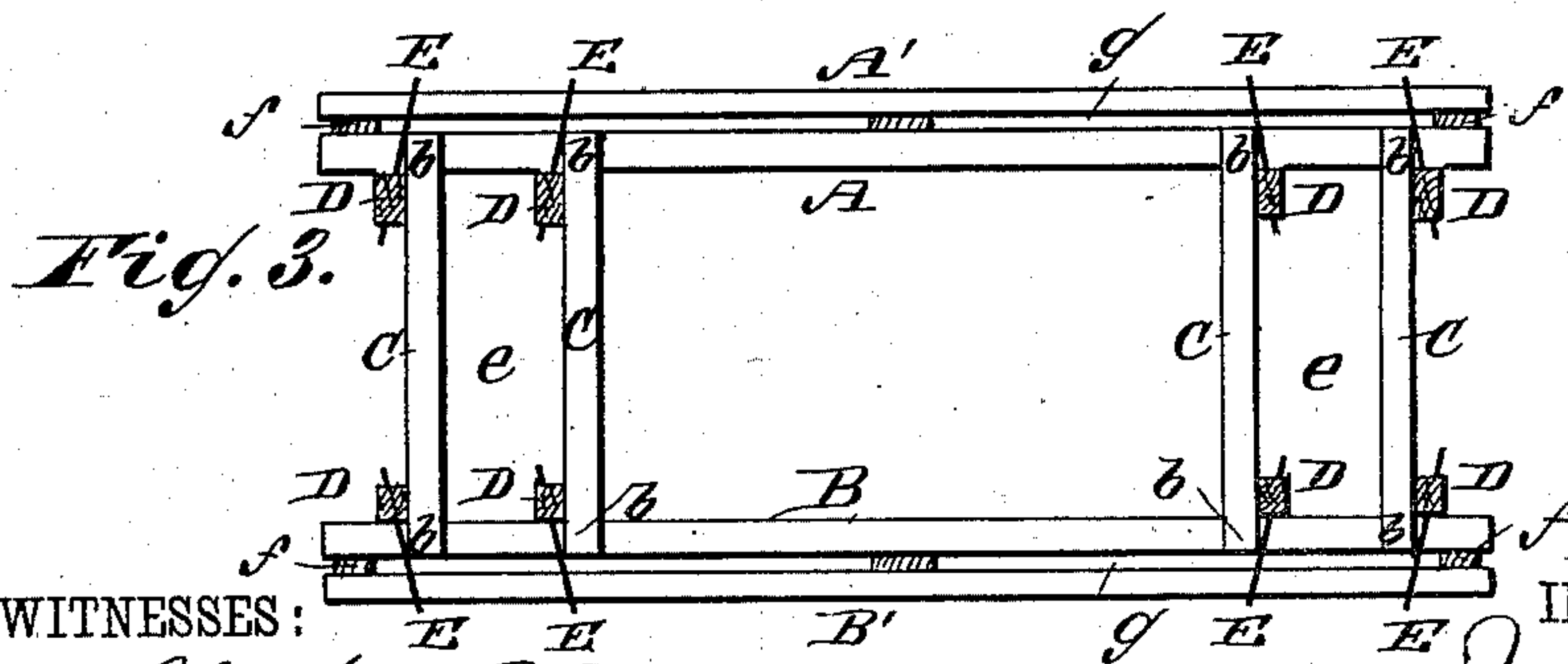
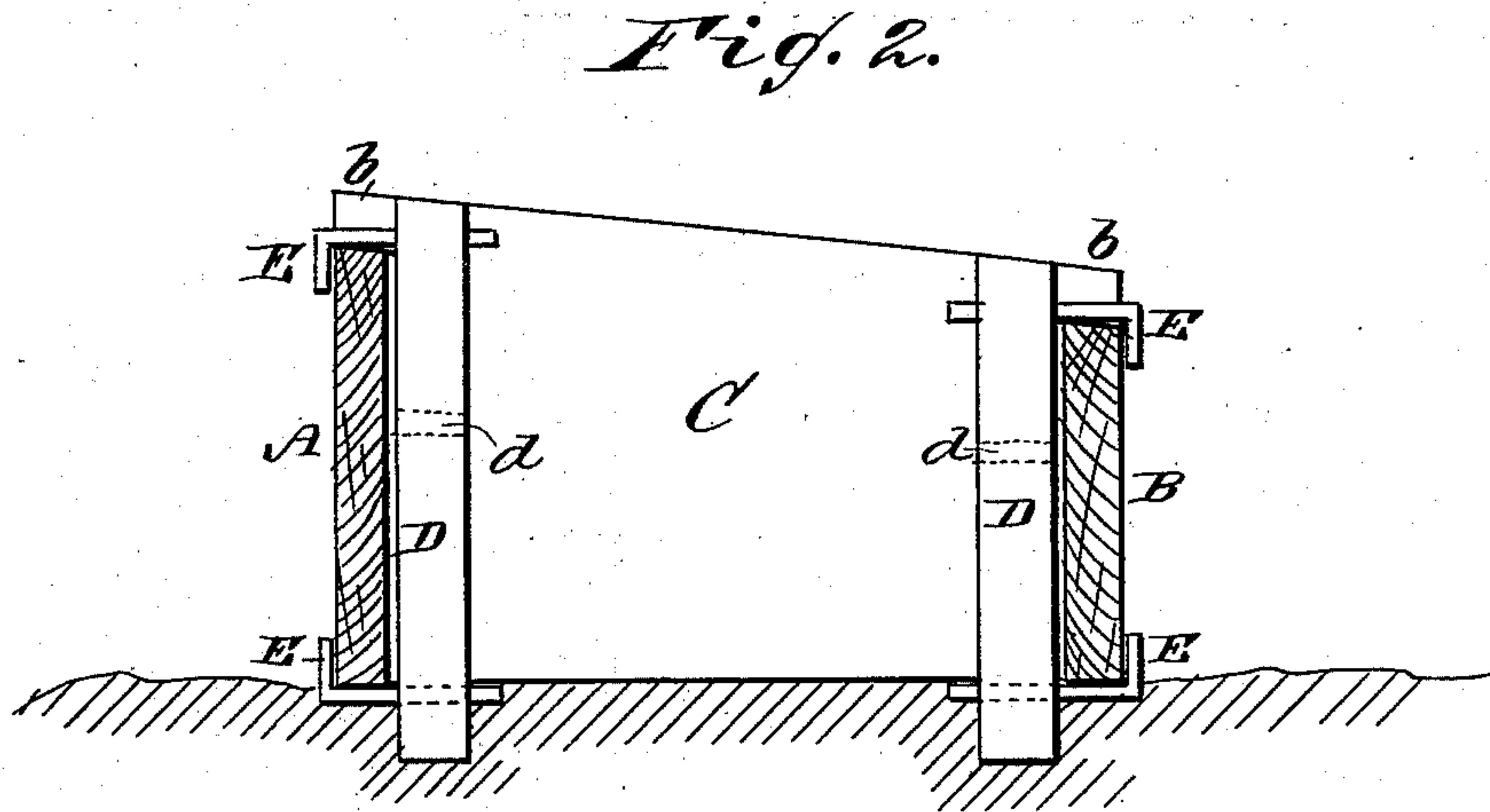
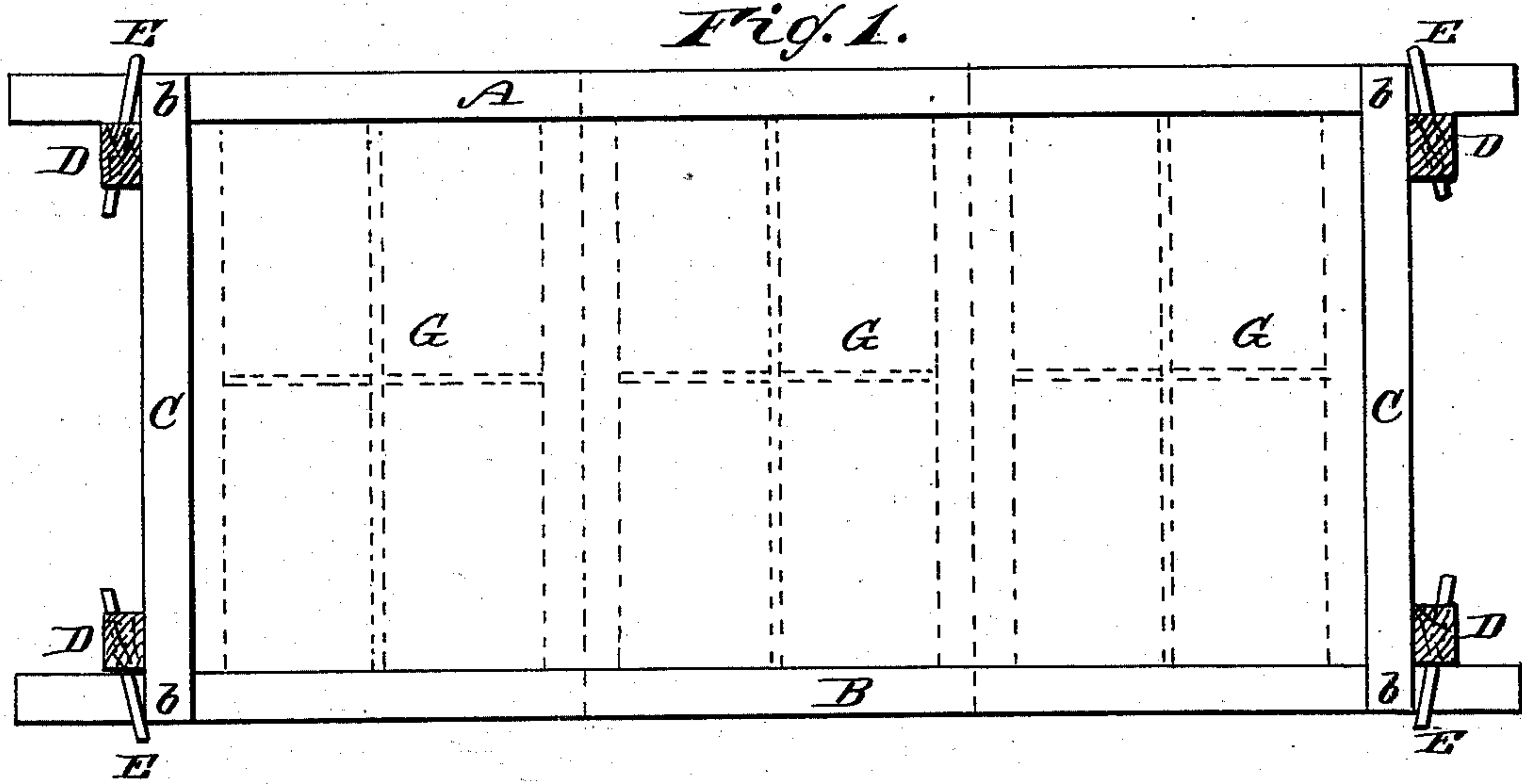
(No Model.)

J. A. TRACHT.

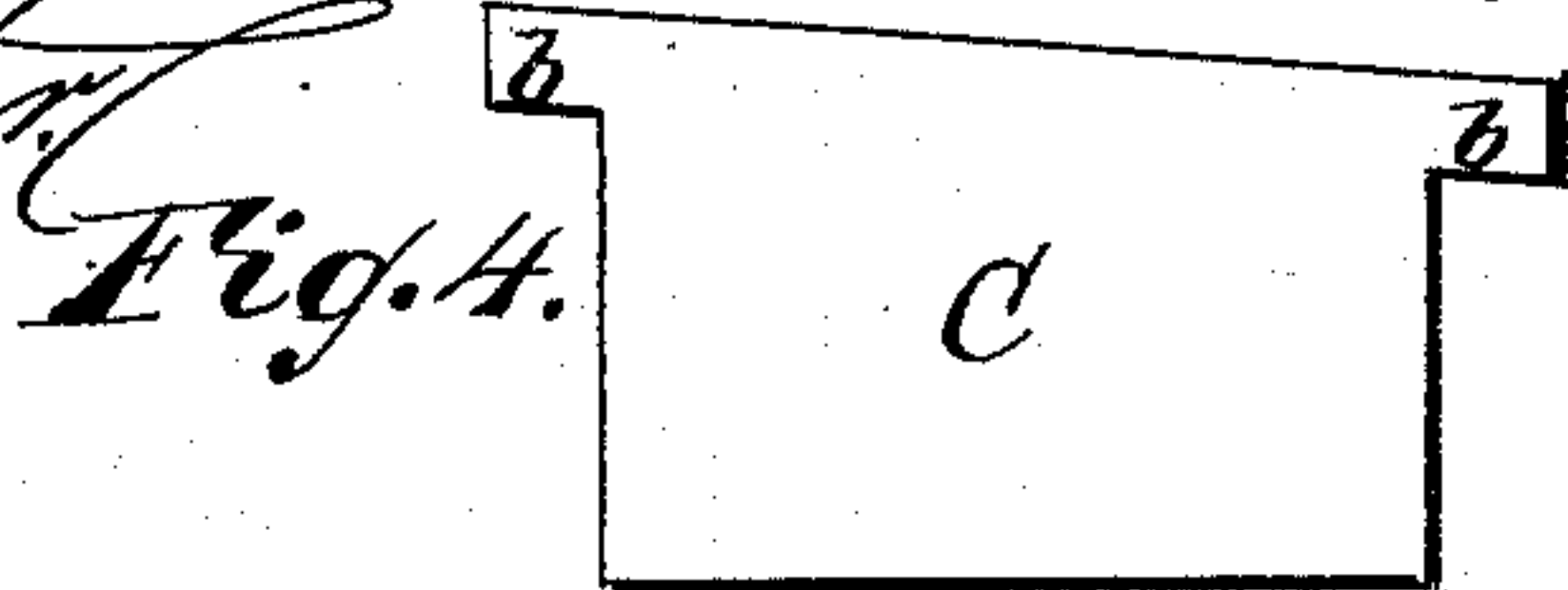
HOT BED AND OTHER FRAMES FOR PLANTS.

No. 282,242.

Patented July 31, 1883.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

JOHN A. TRACHT, OF GALION, OHIO.

## HOT-BED AND OTHER FRAMES FOR PLANTS.

SPECIFICATION forming part of Letters Patent No. 282,242, dated July 31, 1883.

Application filed March 27, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. TRACHT, of Galion, in the county of Crawford and State of Ohio, have invented certain new and useful  
5 Improvements in Hot-Bed and other Frames for Plants, of which the following is a full, clear, and exact description.

This invention relates to frames for plants used for either hot or cold beds; but it will  
10 suffice here to describe it simply as applied to hot-bed frames. Such frames are usually made of front, back, and end boards, all nailed or permanently secured together to receive with-  
in or on them a given number of glazed sashes.

15 The invention consists in the knockdown frame, having its ends adjustable toward or from each other to suit different widths of sashes, and in certain means and arrangement of the same for securing said frame; also, in a  
20 double frame for better protecting the plants in the bed of the frame from frost, substantially as hereinafter described.

Reference is to be had to the accompanying drawings, forming a part of this specification,  
25 in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a plan of a hot-bed frame embodying my invention in part, and Fig. 2  
30 an end view of the same. Fig. 3 is a plan, upon a reduced scale, of a modified construction of a hot-bed frame embodying the invention, and Fig. 4 is a face view of one of the end boards of the frame.

In Figs. 1 and 2 of the drawings, A indicates  
35 the back of the frame, and B its front, of less depth than the back to give to the frame its necessary pitch.

C C are the ends of the frame, of varying depth to conform to the pitch, and fitted loosely  
40 within the front and back boards, at any suitable distance from the ends thereof, and resting by upper terminal projections or arms, *b b*, on the front and back of the frame.

D D are scantlings or strips arranged down  
45 and secured to the outer faces of the ends C C, at the terminal portions thereof, within the arms *b b*.

E E are upper and lower metal hooks or staples arranged to pass through the strips D  
50 D, over and under the upper and lower edges of the back A and front B, and hooking over the outside surfaces of said back and front to

hold the frame together. This mode of secur-  
ing the frame not only provides for increasing  
or diminishing the interior length of the frame  
55 by moving either of the ends C outwardly or inwardly along the back A and front B, to adapt the frame to any width or number of sashes G G—as, for instance, to convert a five-  
sash frame into a three-sash one, or vice versa—  
60 but by driving out the staples the front and back boards, B A, may be taken out and the frame be dismembered for storing it away in a compact space or compass under cover, or  
65 in a dry place, when not required for use, and it may as readily be put together again when required. The frame accordingly is not only a knockdown one, but is also adjustable to any width of sash.

To prevent the staples E E from pulling or  
70 dropping out of their places, and so that they cannot be removed except by driving them out, the holes in the strips D D, through which the staples pass, are made oblique to the faces  
75 of the ends C C, so that the staples occupy a slanting position relatively to the frame, and form a more secure lock, when the sashes are  
in their place, than if said staples were entered  
80 through the strips D D in parallel directions to the outer surfaces of the ends C C. Additional holes *d d* may be made in the strips  
D D for the staples E E, to provide for put-  
ting in narrower or wider boards for the pur-  
pose of giving the sash more or less pitch.

Fig. 3 of the drawings shows a hot-bed  
85 frame in which one frame is set up around another to give better protection against frost to the plants growing in the hot-bed. The inner frame has its front, back, and ends, B, A, and C, constructed substantially as hereinbefore  
90 described, and with its front and back boards somewhat longer, as usual, than the combined width of the sashes; but it is provided with double end boards C C within each end of the  
frame, at suitable distances apart to leave pack-  
95 ing-spaces *e e* between such double ends. Outside of the front and back B A are also arranged other front and back boards B' A', with  
laths *f f* in between them and the inner front  
and back B A, to form side packing-spaces, *g*  
100 *g*. The same arrangement of obliquely-disposed staples E E, as shown in Figs. 1 and 2, and the same arrangement of scantlings or strips D D on the ends C C, are used in Fig. 3 as in



Figs. 1 and 2, to hold the inner and outer frames together, only that the staples will be required to be made somewhat longer, and the same facility is afforded for knocking down the frames and of adjusting the inner one to suit different widths of sashes, as has already been explained with reference to Figs. 1 and 2. In both modifications the ends C, as shown in Fig. 4, are of like construction. The packing-spaces *e e* and *g g* of the double frame (shown in Fig. 3) may be packed with leaves, manure, or any other suitable material.

If desired, a board similar to the end boards C may be slipped down between the sashes about the middle of the frame by taking out the lower staples and then entering them again after said board is pushed down to keep the frame in a firm and upright position, and so that no superincumbent weight to which the frame is subject will cause it to spread. This will prevent the weight of the sashes, as is often the case, causing the frame to spread and the sash to drop down inside the frame on the plants, which occasions considerable damage to the plants growing in the bed.

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

1. A hot-bed or other like frame for plants, composed of a back, A, a front, B, ends C C,

provided with front and back up-and-down strips D D, and the hooks or staples E E for holding the frame together, whereby the frame may not only be readily knocked down and put together, but either end is adjustable along the front and back to accommodate different widths or numbers of sashes, substantially as specified.

2. In a hot-bed or other like frame, the combination, with the front and back B A, of the longitudinally-adjustable ends C C, having front and back uprights or strips, D D, and the hooks or staples E E, arranged to pass obliquely through said strips relatively to the outer surfaces of the ends C C, for more securely holding the frame together, essentially as described.

3. A hot-bed frame in which are combined inner and outer frames consisting of fronts and backs, A A' B B', double adjustable ends C C, having outer uprights or strips, D D, hooks or staples E E for holding the frames together, and strips or laths *f f* between the two sets of fronts and backs, substantially as and for the purpose herein set forth.

JOHN ADAM TRACHT.

Witnesses:

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