

F. A. ECKER.  
PLATE RACK.

APPLICATION FILED JUNE 27, 1903.

NO MODEL.

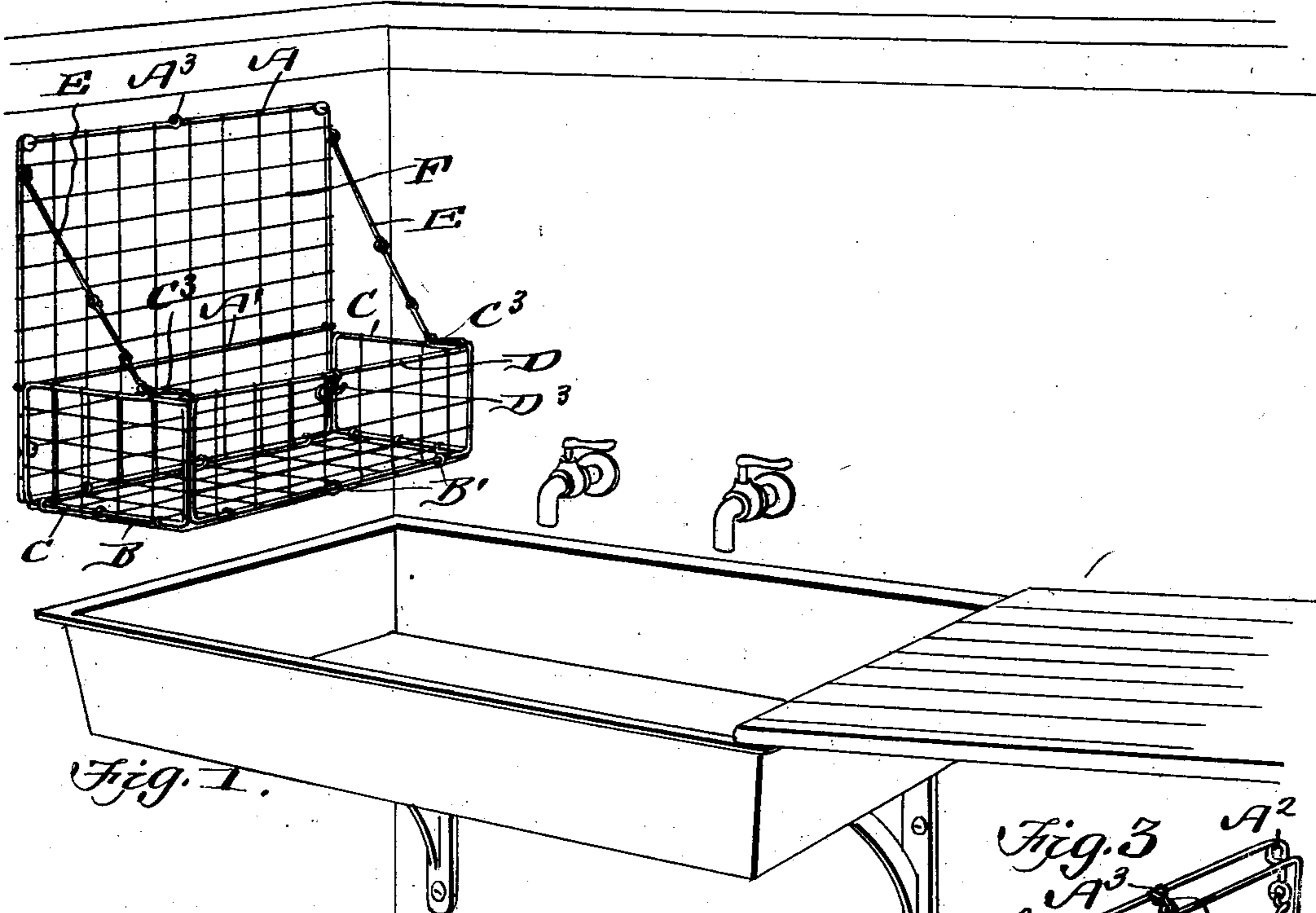


Fig. 1.

Fig. 2.

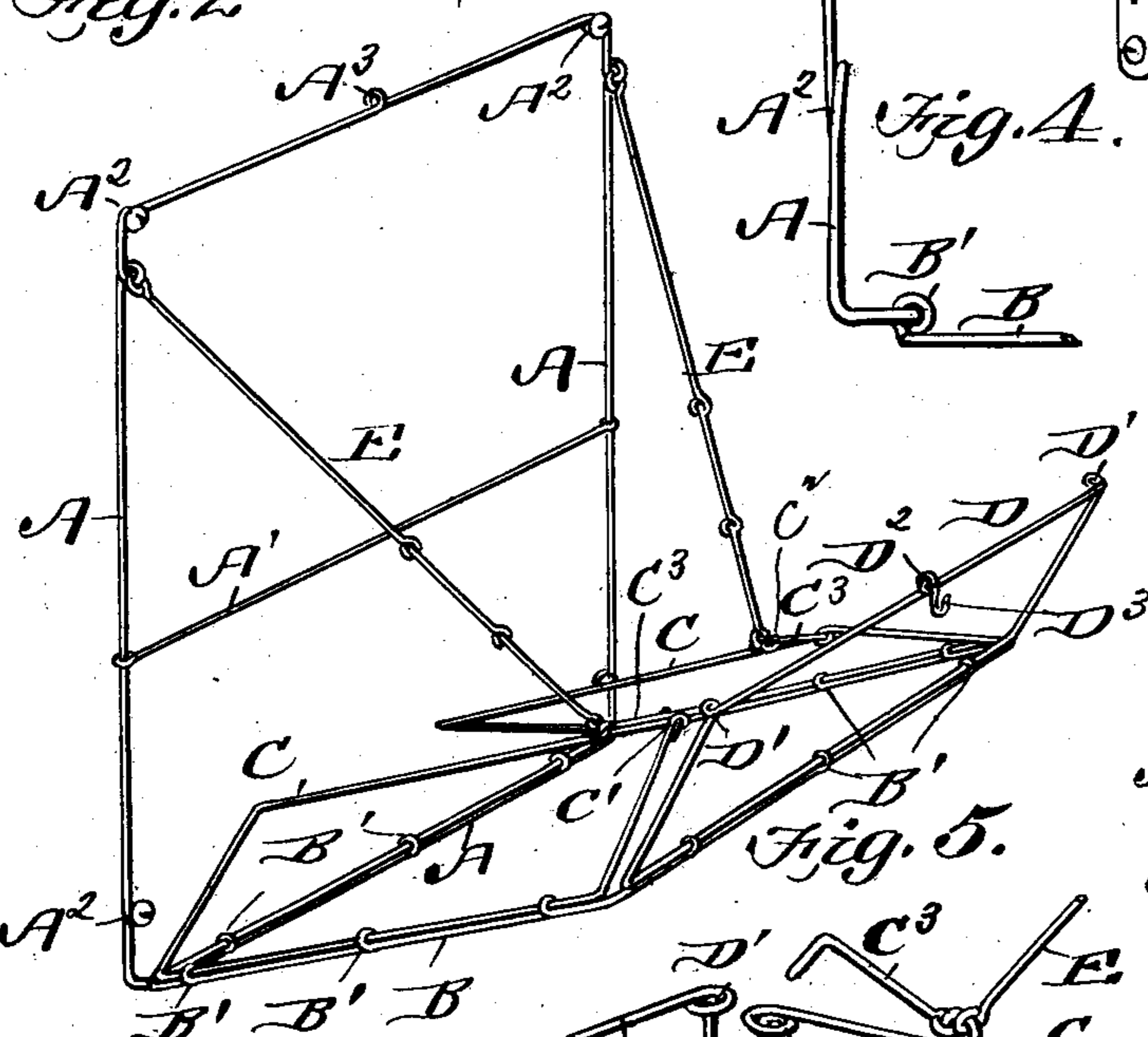


Fig. 4.



Fig. 3.

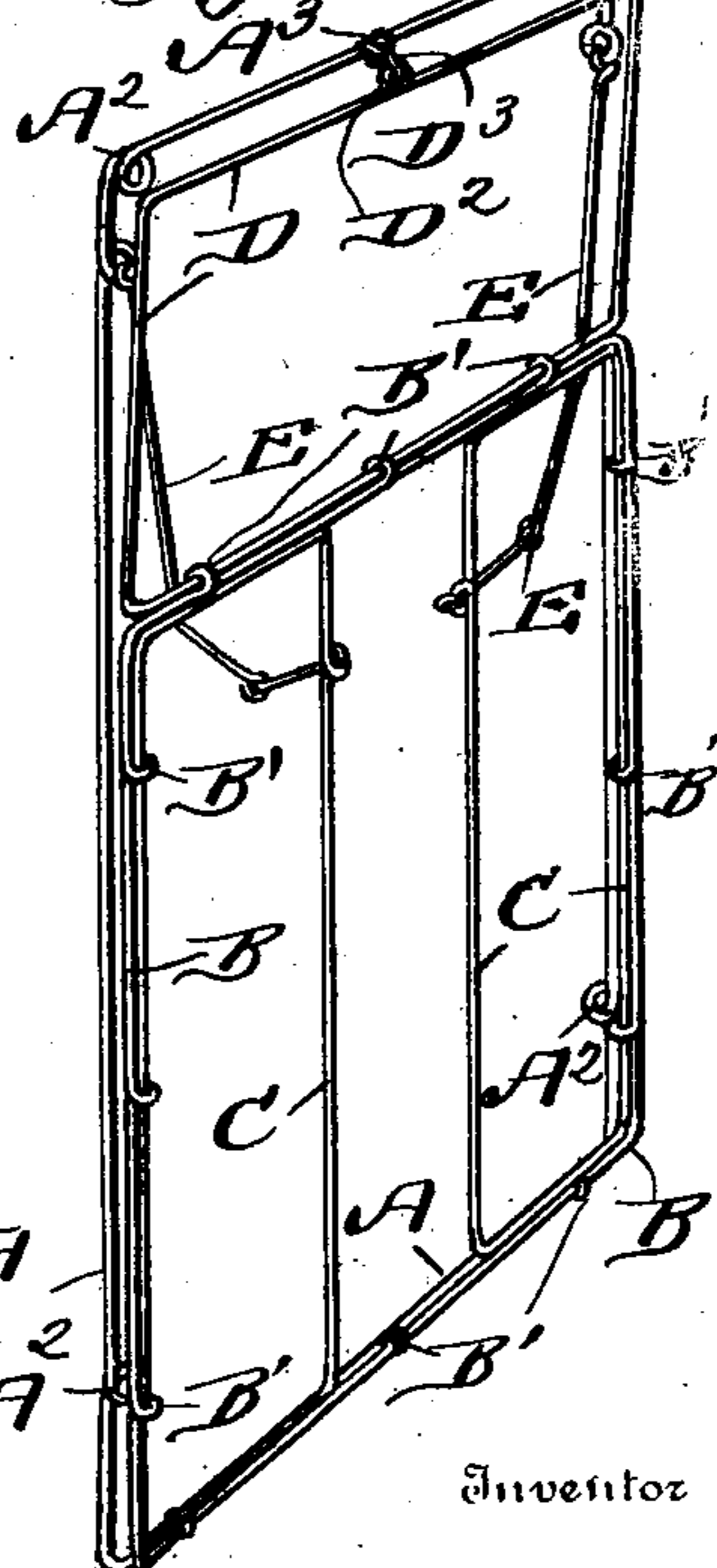
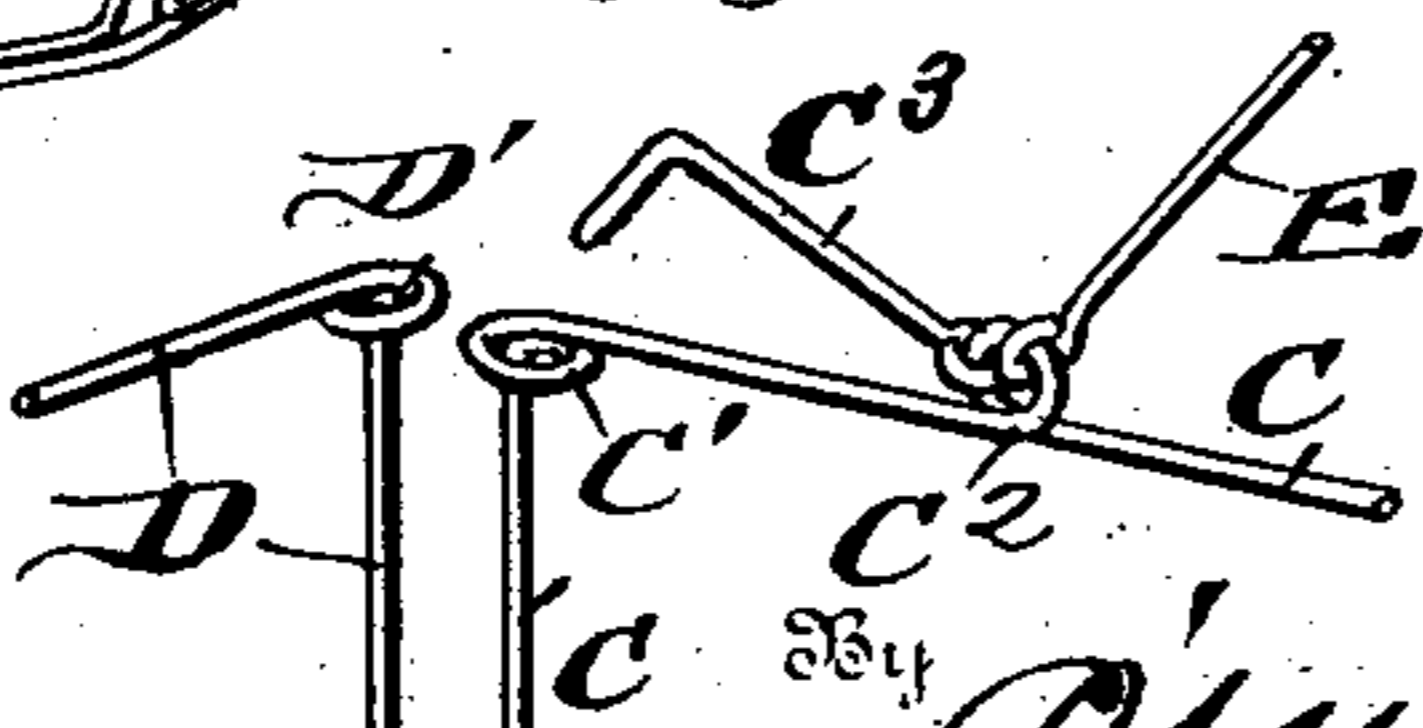


Fig. 5.



Inventor

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Witnesses

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# UNITED STATES PATENT OFFICE.

FRANK A. ECKER, OF MIDDLETOWN, CONNECTICUT.

## PLATE-RACK.

SPECIFICATION forming part of Letters Patent No. 744,315, dated November 17, 1903.

Application filed June 27, 1903. Serial No. 163,412. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK A. ECKER, a citizen of the United States, residing at Middletown, in the county of Middlesex and State of Connecticut, have invented a new and useful Plate-Rack, of which the following is a specification.

My invention is an improvement in plate-racks, the object of my invention being to provide a rack of this description that will readily fold upon itself and can be locked in such folded position when not in use.

My invention consists in the novel features of construction and combination of parts hereinafter described, particularly pointed out in the claims, and shown in the accompanying drawings, in which—

Figure 1 is a view of my rack complete in position for use. Fig. 2 is a perspective view of the rack partly folded. Fig. 3 is a similar view showing the rack entirely folded. Fig. 4 is a detail view showing the manner of hinging the rear and bottom frames. Fig. 5 is a detail view showing the means for locking the side and front frames together. In Figs. 2 and 3 the wire network is removed to more clearly illustrate the construction of the frame.

In constructing my rack I employ a rectangular vertical rear frame A, braced by a horizontal cross-piece A'. The frame A is composed of a single piece of wire and is bent to form eyes A<sup>2</sup>, through which screws may be passed to secure it to a baseboard or wall. The upper horizontal member has an eye A<sup>3</sup>, formed intermediate its ends.

The bottom frame B is substantially rectangular in shape and is formed of one piece of wire. This wire is bent to form loops or eyes B', projecting upward when the bottom is at right angles to the vertical frame above the plane of the bottom. A plurality of these eyes B' are formed on each side and end of the bottom frame B. The frames A and B are hinged together by the lower member of the frame A passing through the eyes B', formed on the rear side of the frame B.

The end members C are simple rectangular wire frames approximately equal in length to the width of the bottom frame, and a side member of each of the frames C engages the eyes B', formed on one of the end members

of the frame B. These side members are formed with a loop C' in what forms the upper front corners of the side frames when the rack is unfolded. An eye C<sup>2</sup> is also formed on each side frame adjacent the loop C', and a hook member C<sup>3</sup>, pivoted to the eye C<sup>2</sup>, is adapted to engage the loop C'.

The front member D is a one-piece wire frame hinged to the forward side of the bottom frame by engaging a portion of the eyes B', as are the side and rear members. A loop D' is formed in the upper corners of the frame D, and when the frames D and C are lifted into vertical position the loops D' project over the loops C', and the hooks C<sup>3</sup> engaging the two loops lock the side and front frames in upright position.

A brace or chain formed of a plurality of links E connects the rear frame and each side frame. A hook D<sup>2</sup>, carried by the front frame D, engages the eye A<sup>3</sup> when the parts are folded. By disengaging the hooks C<sup>3</sup> from the loops C' D' the sides C will fold on the frame B and the frames B and D on the frame A. A wire network F is carried by each frame, as shown in Fig. 1.

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

1. A device of the kind described comprising a rear vertical frame, a bottom frame hinged to the vertical frame, side frames hinged to the ends of the bottom frame, an end frame hinged to the front side of the bottom frame, means for locking the side and front frames together, and a plurality of pivoted links connecting the upper portion of the rear frame with the forward portion of the side frames.

2. A device of the kind described comprising a rear, rectangular frame, a horizontal bottom frame hinged to the lower edge of the rear frame, hinged side and front frames, a chain of pivoted links connecting each side frame with the rear frame, the side frames folding on the bottom frame, the bottom, side and front frames folding on the rear frame a hook carried by the front frame and adapted to engage the upper edge of the rear frame, and means for locking the front frame in a position at right angles to the side frames.

3. A device of the kind described compris-

ing a rear vertical frame, a swinging hinged  
bottom frame folding on the rear frame, side  
frames hinged to and folding on the bottom  
frame, a front frame hinged to the bottom  
5 frame and folding with it upon the rear frame,  
loops carried at a corner of each side frame,  
loops carried at the upper corners of the front  
frame and registering with the loops of the  
side frames, hook members pivoted to the

side frames and engaging loops of the side  
and front frames, an eye carried by the up-  
per portion of the rear frame, and a hook  
carried by the front frame and adapted to  
engage the eye on the rear frame.

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Witnesses:

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