

No. 883,994.

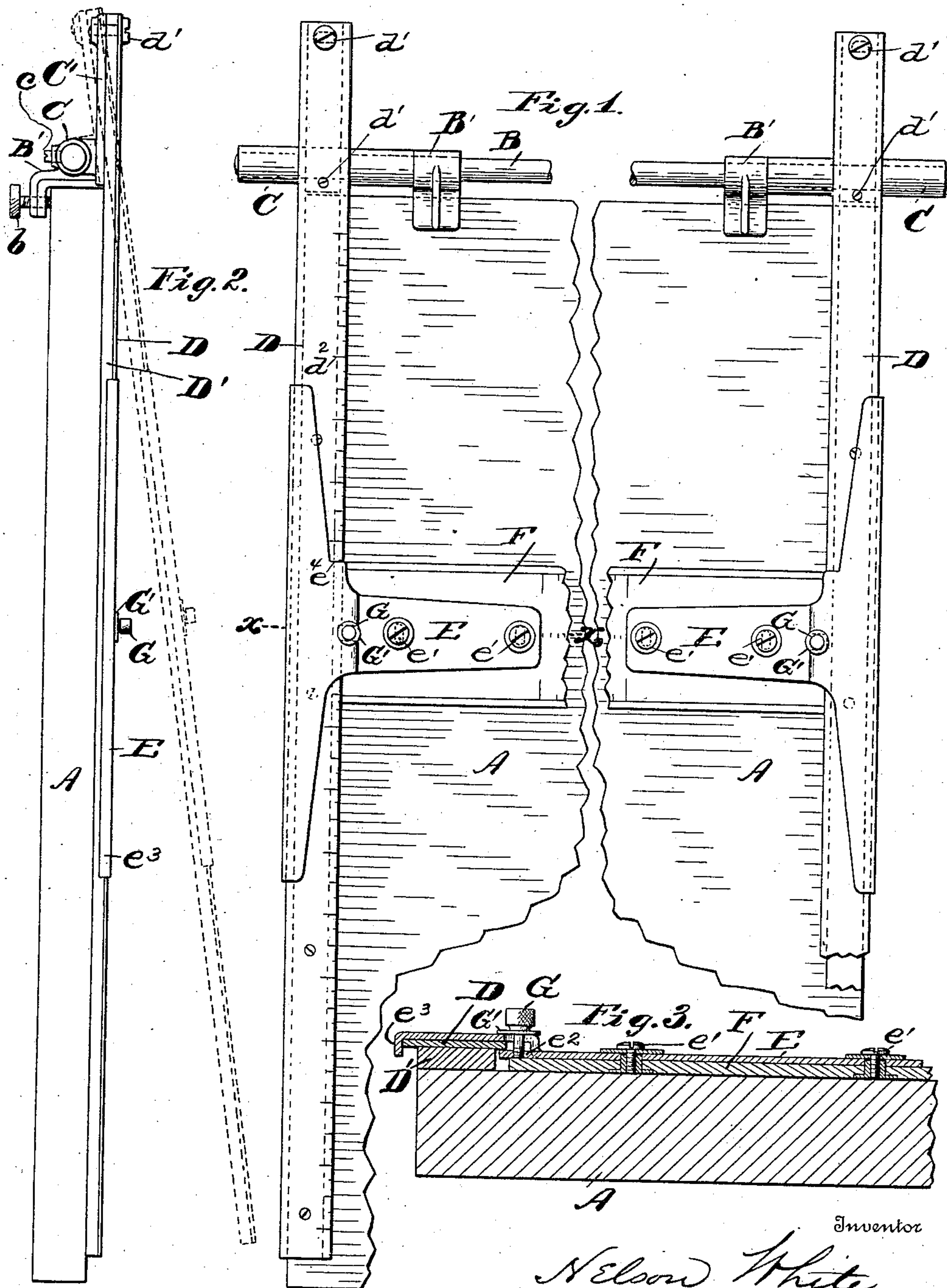
PATENTED APR. 7, 1908.

N. WHITE.

DRAWING BOARD AND DRAFTING DEVICE.

APPLICATION FILED JUNE 17, 1907.

2 SHEETS—SHEET 1.



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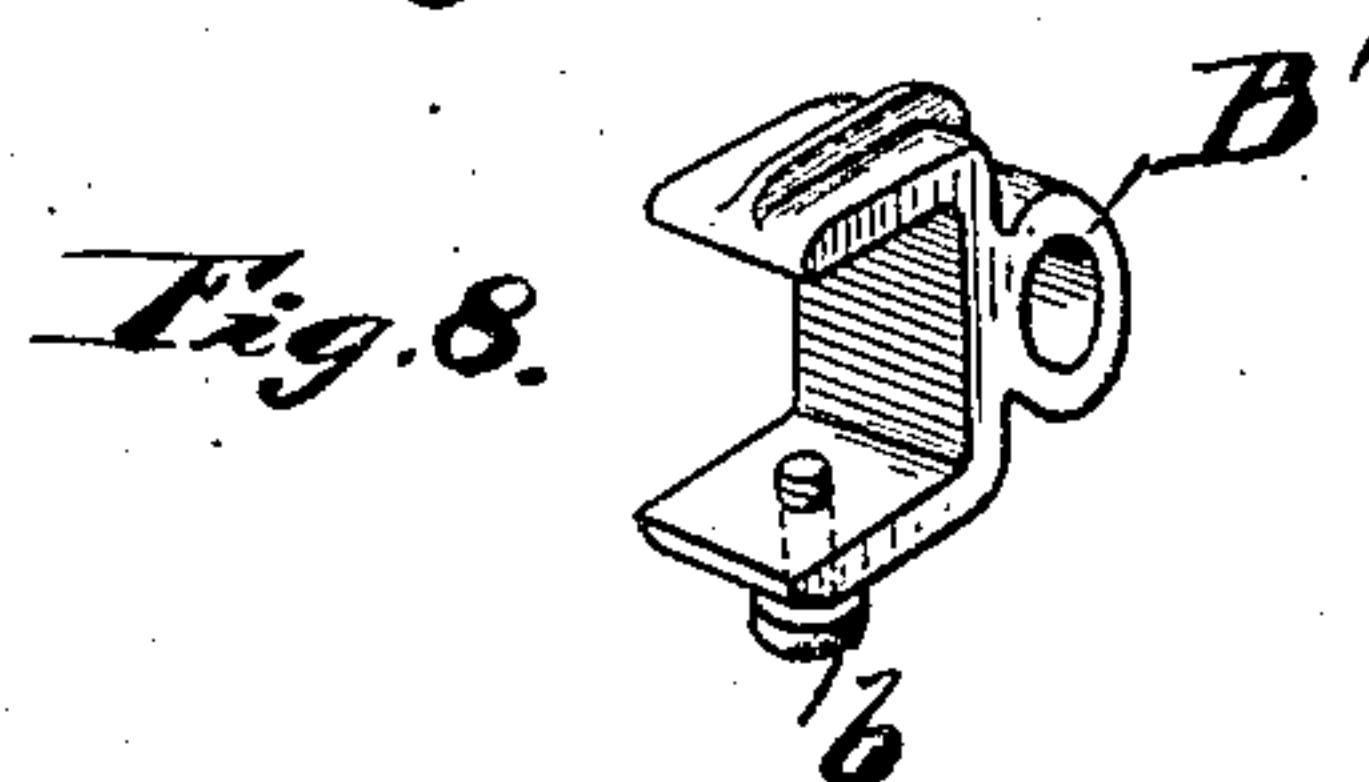
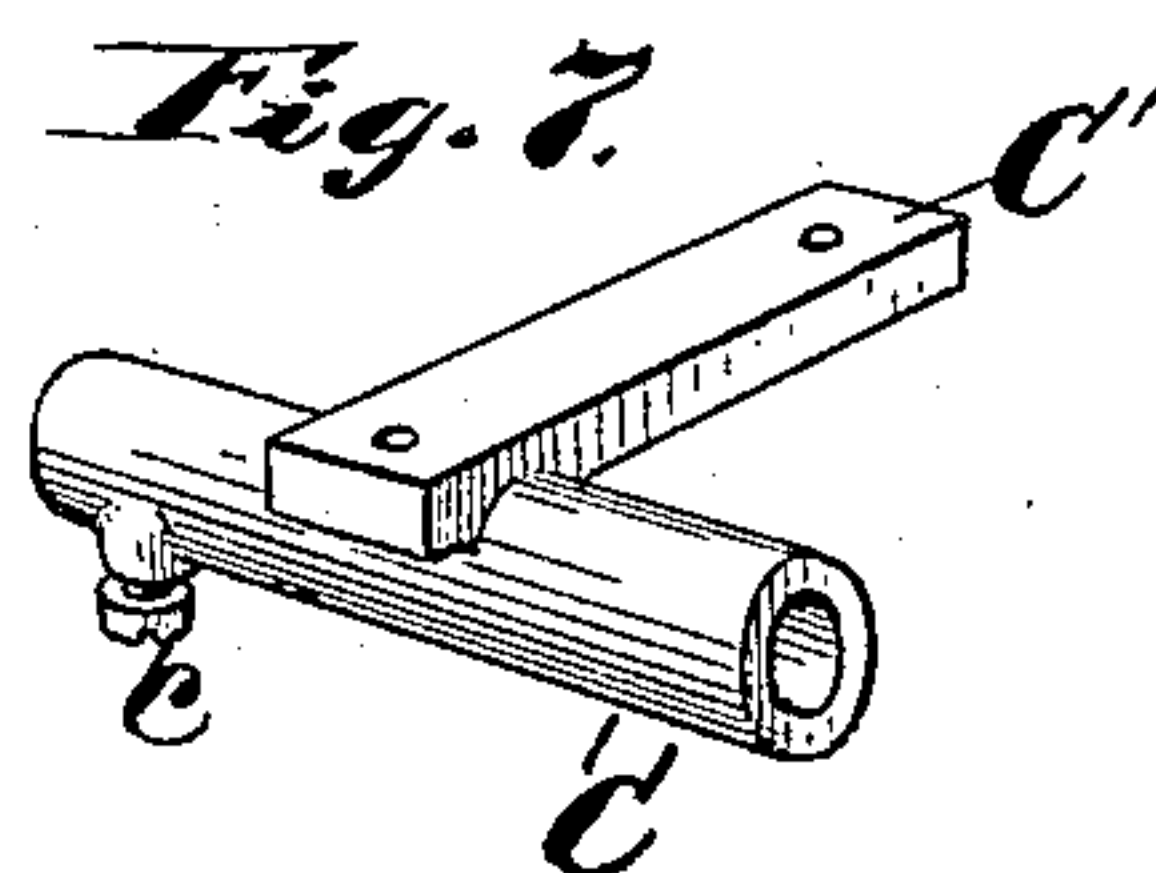
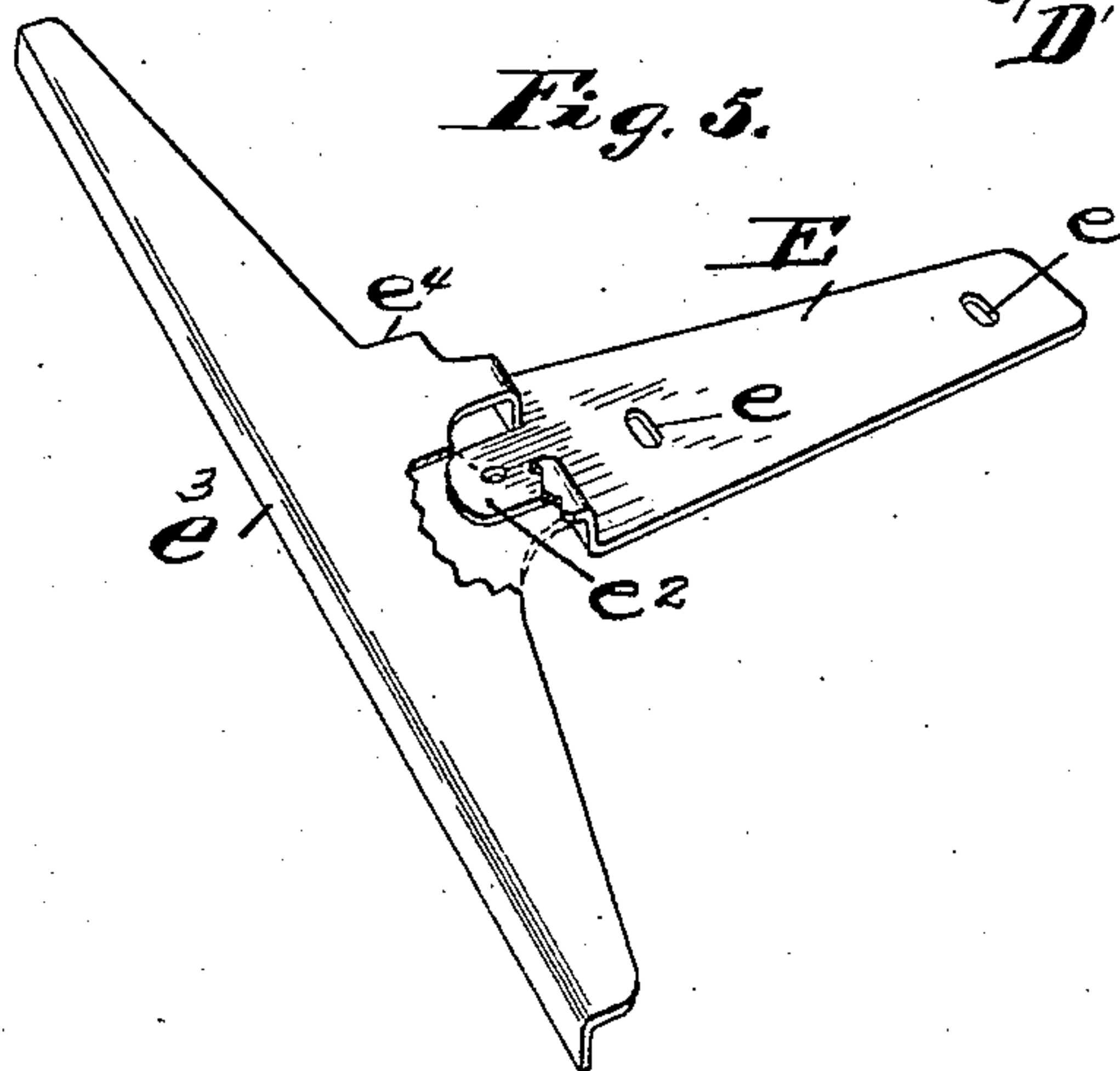
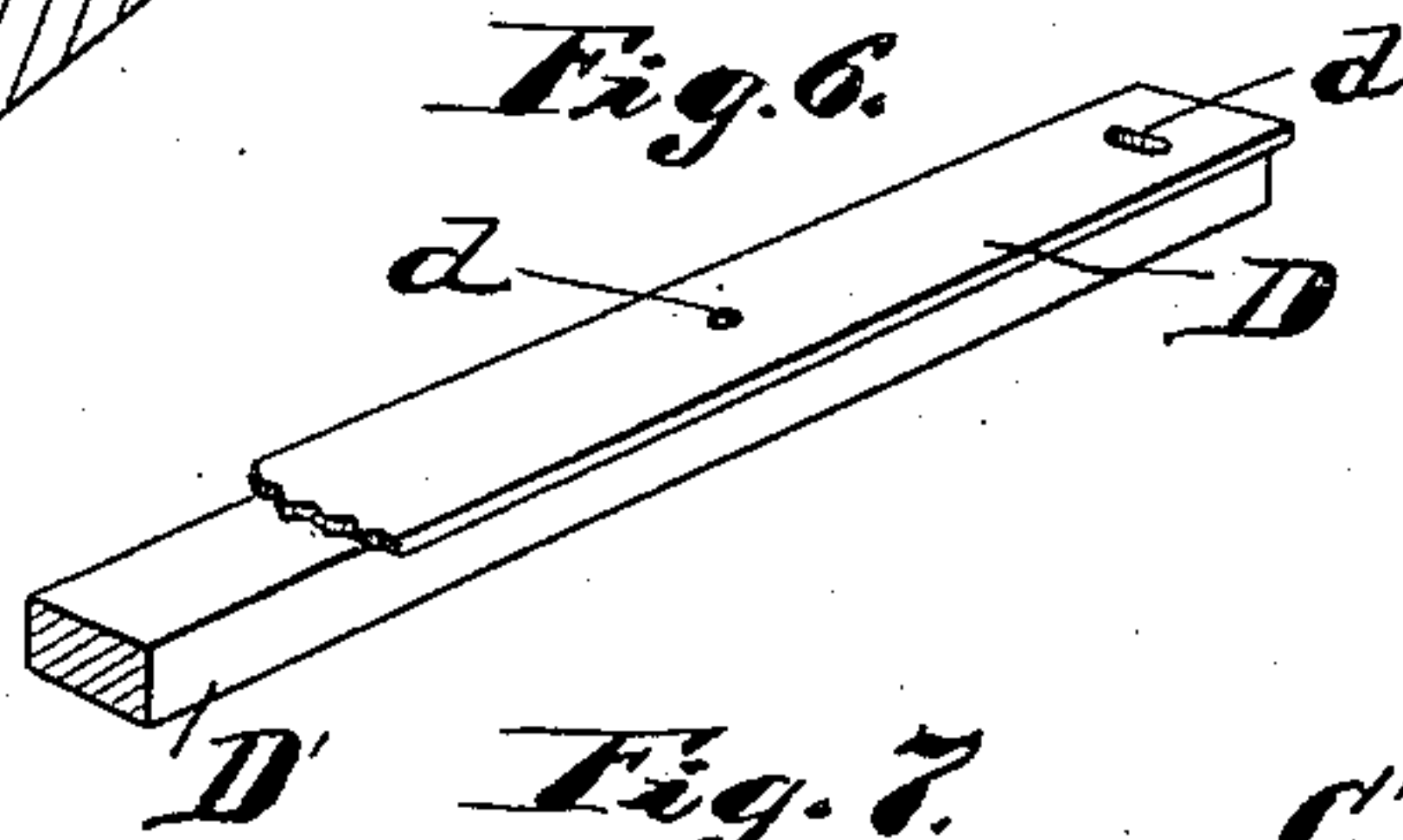
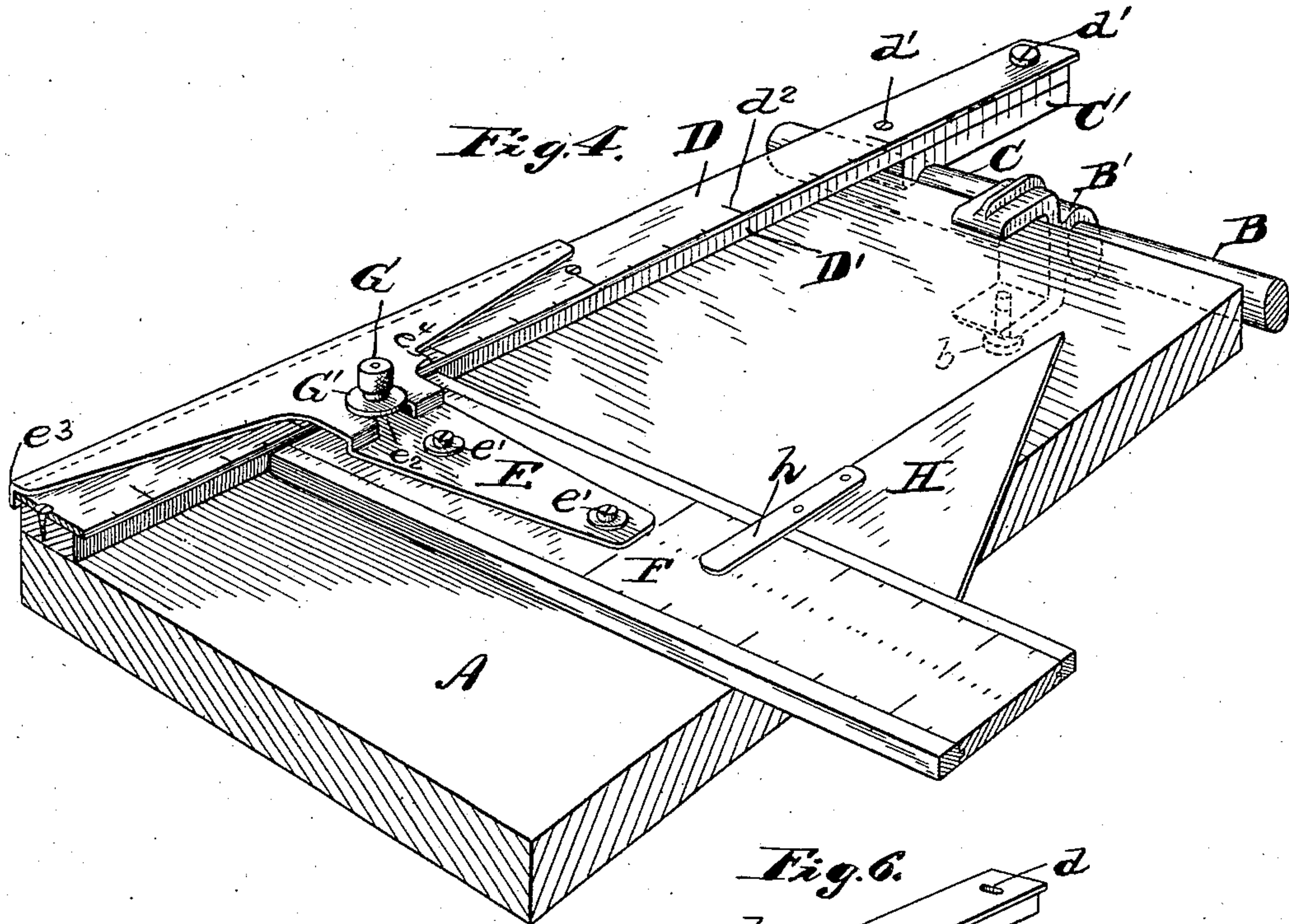
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

NELSON WHITE, OF DETROIT, MICHIGAN.

DRAWING-BOARD AND DRAFTING DEVICE.

No. 883,994.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed June 17, 1907. Serial No. 379,320.

To all whom it may concern:

Be it known that I, NELSON WHITE, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Drawing-Boards and Drafting Devices, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in drawing boards and drafting devices shown in the accompanying drawings and more particularly pointed out in the following specification and claims.

In the drawings: Figure 1 is a plan view of my invention showing it attached to a drawing board,—parts being broken away to accommodate the scale of the view to the size of the sheet. Fig. 2 is a side elevation of the same showing in dotted lines the ruler raised to receive a sheet of drawing paper beneath it. Fig. 3 is a sectional view enlarged of a detail of construction on line $x-x$ of Fig. 1. Fig. 4 is a perspective view of a detail of the construction showing a portion of the straight edge, one of its guide bars, the board, and means for securing the ruler to the latter. Fig. 5 is a perspective view of the sliding bracket which is secured to the straight edge. Fig. 6 is a detail view of the end of one guide bar. Fig. 7 is a perspective view of the thimble which is secured to the rock shaft. Fig. 8 is a perspective view of one of the bearings for the rock shaft which also serves as a clamp to attach the appliance to the drafting board. One object of my invention is to construct a drawing board and drafting device simple in construction but accurate and reliable in every way;—the arrangement of the parts being such that they may be readily adjusted with respect to each other. Provision is also made for engaging or removing the drawing paper from the board without disconnecting the ruler or any of its parts.

Other advantages and improvements will hereafter appear.

Referring to the letters of reference shown on the drawings: A indicates the drafting board.

B is a rock shaft, supported in bearings B', clamped to one edge of the board by the thumb screws b.

C are thimbles secured to either end of the rock shaft B by their respective set screws c.

C' are arms extending from the wall of the thimbles C, being integral therewith and serving to support the ends of the side guides of the ruler to which they are engaged.

D are guides for the ruler, preferably of sheet metal, being mounted on the wooden strips D' to give them the required stiffness, and provided with perforations d , d at one end,—one of which is elongated to provide for adjustment,—and through which they are secured to the respective arms C' by the screws d' , d' .

E, E are brackets, pierced with elongated slots e , e , through which they are secured to the straight edge F by the set screws e' , e' , the slots providing means whereby the brackets may be properly adjusted with respect to the straight edge and the guide strips D.

e^2 is a tongue, formed in the bracket E, which projects beneath the overhanging edge of the guide D, being tapped to receive the screw-threaded stem of the thumb screw G,—beneath the head of which, and resting on the raised portion of the walls of the bracket, is a washer G' encircling the stem of the thumb screw. By adjusting the thumb screws G the tongues e^2 may be forced to impinge upon the guides D, to a greater or less extent,—serving either as a dragging brake on the movement of the straight edge, or to secure it in a fixed position, as may be desired.

e^3 is a flange, formed on the outer edge of the brackets E, which overlaps the guides D, serving to guide the movement of the brackets thereon.

e^4 is a shoulder, formed in the wall of the bracket on a line with the straight edge F and overlapping the upper face of the guides D, the upper face of one of the guides having graduations D² to enable the draftsman without the use of an independent scale, to lay off any vertical measurement on his drawing by setting the straight edge at the proper graduation on the guide bars. The straight edge F is also graduated so that by employing a triangle H, having a pointer h overlapping the graduated portion of the edge, any horizontal measurement may be set off on the drawing. As previously referred to, the elongated slots d in the guide bars, together with the slots e in the brackets attached to the straight edge, provide means whereby the

edge may be adjusted with respect to the guide bars and the relation may be then fixed by the adjustment of the proper set screws.

5 To remove or insert a sheet of drawing paper, it is not necessary to disconnect the devices which clamp the ruler to the board nor disturb the parts in any way, for the frame work being hinged to the rock shaft, it is
10 only necessary to lift the guides at their free end when the sheet may be slid under the appliance upon the board, or removed as required.

Having thus described my invention, what
15 I claim is:—

1. In a device of the class described, a drafting board, a rock shaft, clips spaced apart and connecting said shaft to said board at one end, sleeves rotative with said shaft
20 and maintained in position by said clips, guide bars connected to said sleeves and extending adjacent the side edges of said board, and a straight edge slidably engaging said guide bars.

2. In a device of the class described, a drafting board, a rock shaft, clips spaced apart and connecting said shaft to said board at one end, sleeves upon said shaft and maintained in position by said clips, each sleeve
25 having a laterally extending arm, guide bars pivoted upon said arms and extending adjacent the side edges of said board, means for adjusting said bars relative to said arms, and a straight edge engaging said guide bars.

3. In a device of the class described, a
35 drafting board, a rock shaft coupled to one

end of said board, guide bars disposed adjacent to the opposite sides of said board and connected to said shaft, a straight edge extending between said guide bars, brackets
40 connected at one end to said straight edge and extending over said guide bars and with down turned outer edges engaging the outer edges of the same, said brackets having
45 tongues extending beneath the guide bars, and clamp devices operating upon said tongues.

4. In a device of the class described, a drafting board, guide bars disposed on opposite sides of said board, a straight edge
50 extending between said guide bars, and brackets secured to said straight edge and extending over said guide bars and with down turned outer edges embracing the outer
55 edges of the guide bars.

5. In a device of the class described, a drafting board, guide bars disposed on opposite sides of said board, a straight edge
60 extending between said guide bars, brackets secured to said straight edge and extending over said guide bars and with down turned outer edges embracing the outer edges of the guide bars, said brackets having tongues
65 extending beneath the guide bars, and clamp devices operating upon said tongue.

In testimony whereof, I sign this specification in the presence of two witnesses.

NELSON WHITE.

Witnesses:

SAMUEL E. THOMAS,
GRACE E. WYNKOOP.