

No. 855,091.

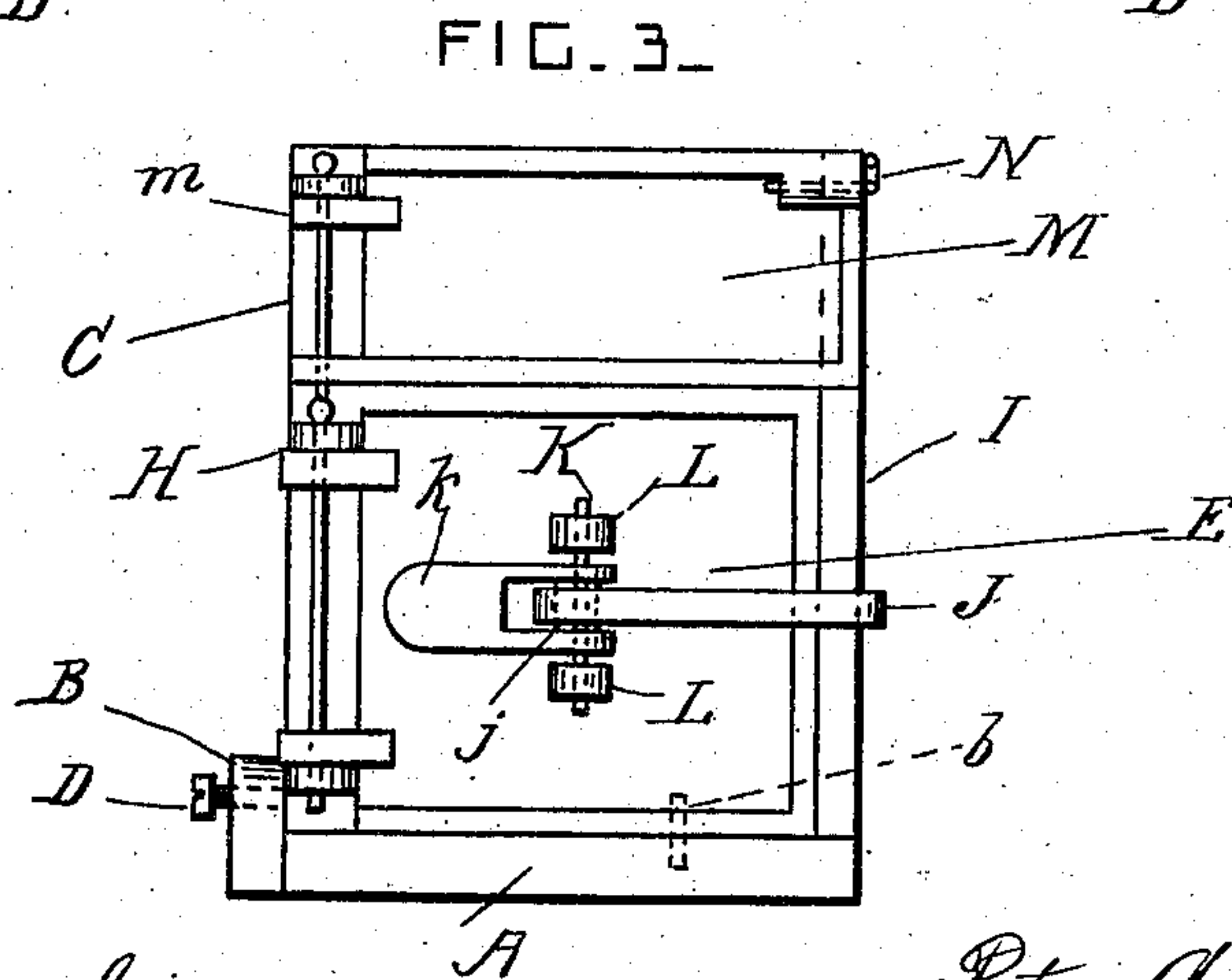
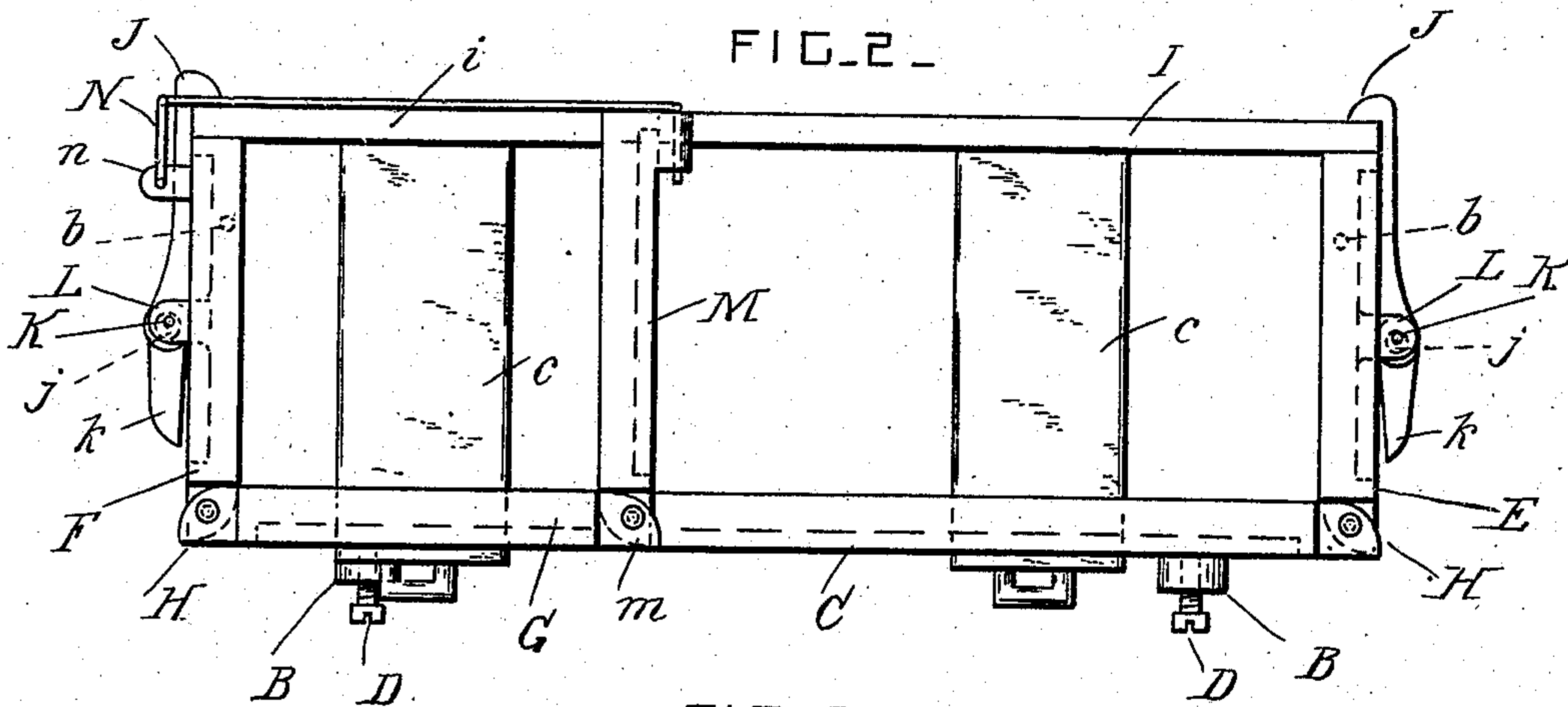
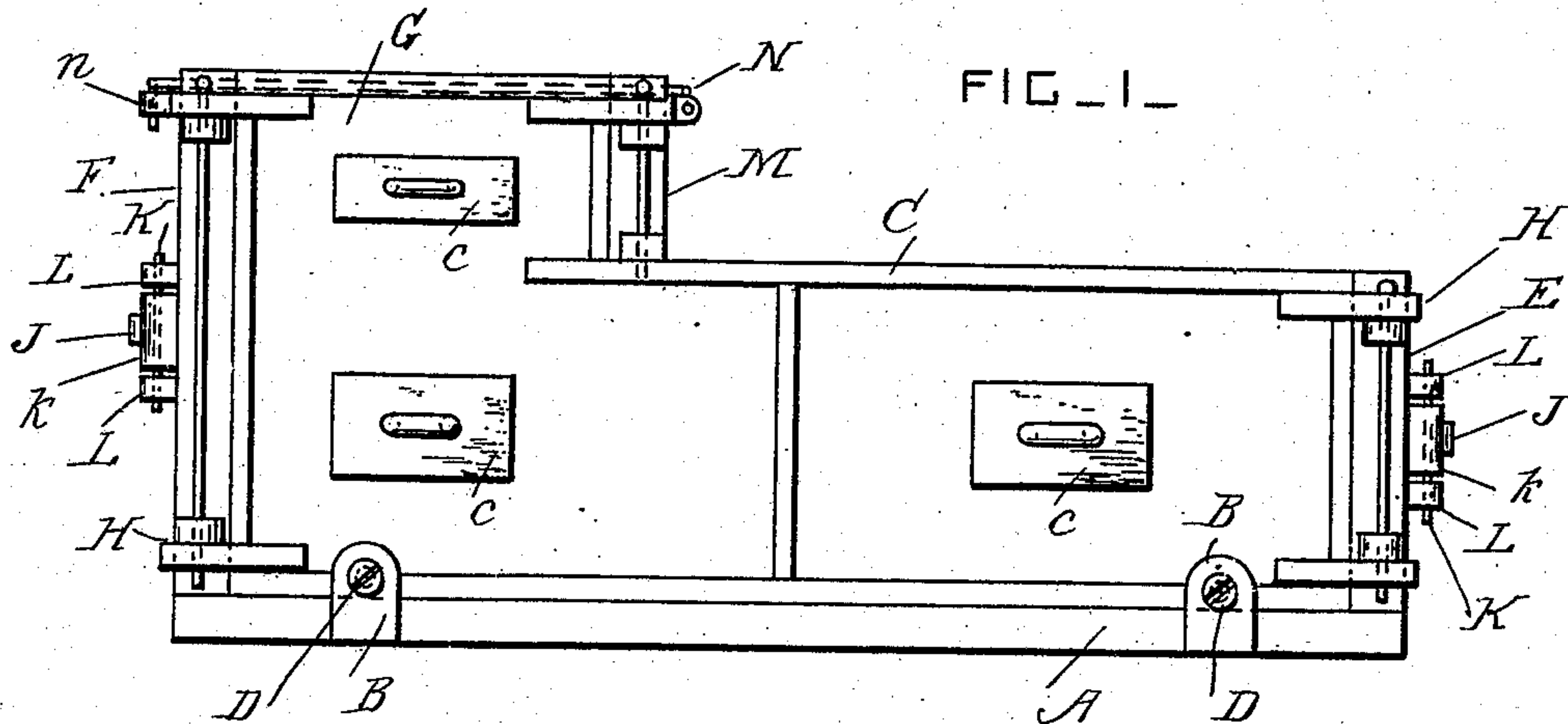
PATENTED MAY 28, 1907.

P. A. BOWSHER.

MOLD

APPLICATION FILED SEPT. 25, 1906.

2 SHEETS—SHEET 1.



WITNESSES:

S. E. Tomlinson

L. B. Middleton

BY

INVENTOR

Peter A. Bowsher

Herbert W. Jenner

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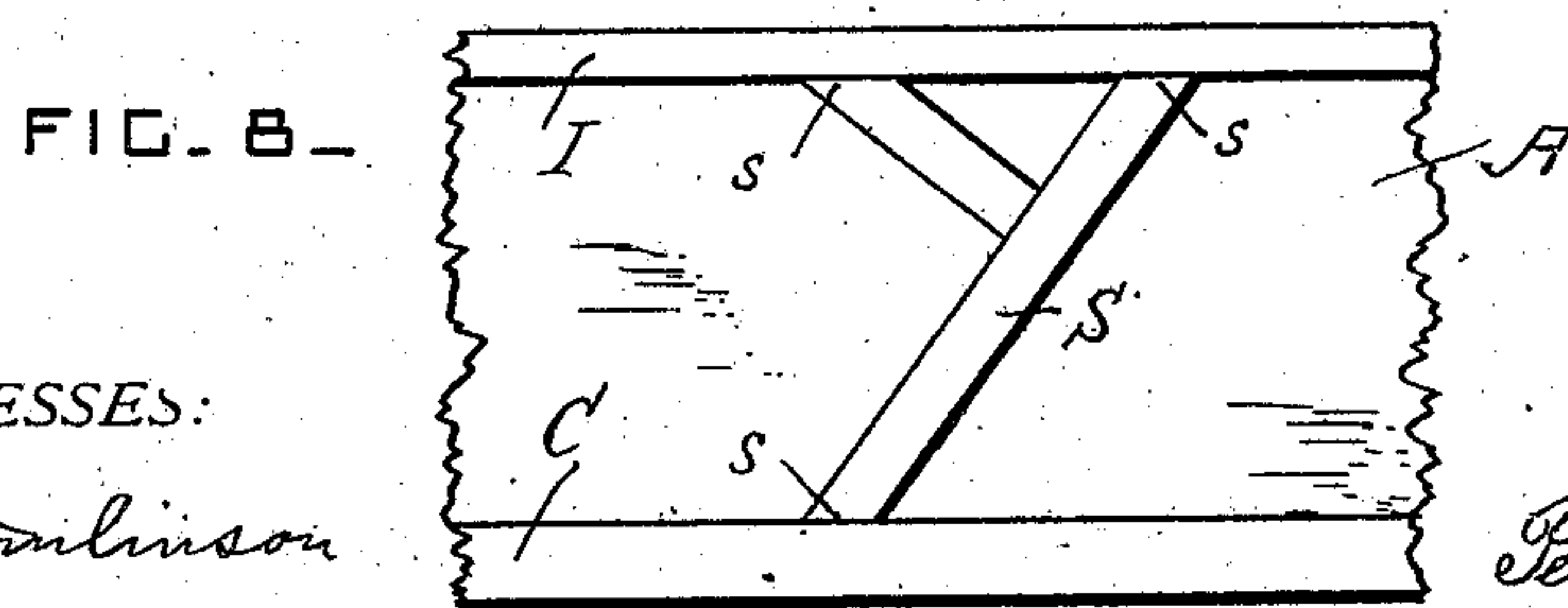
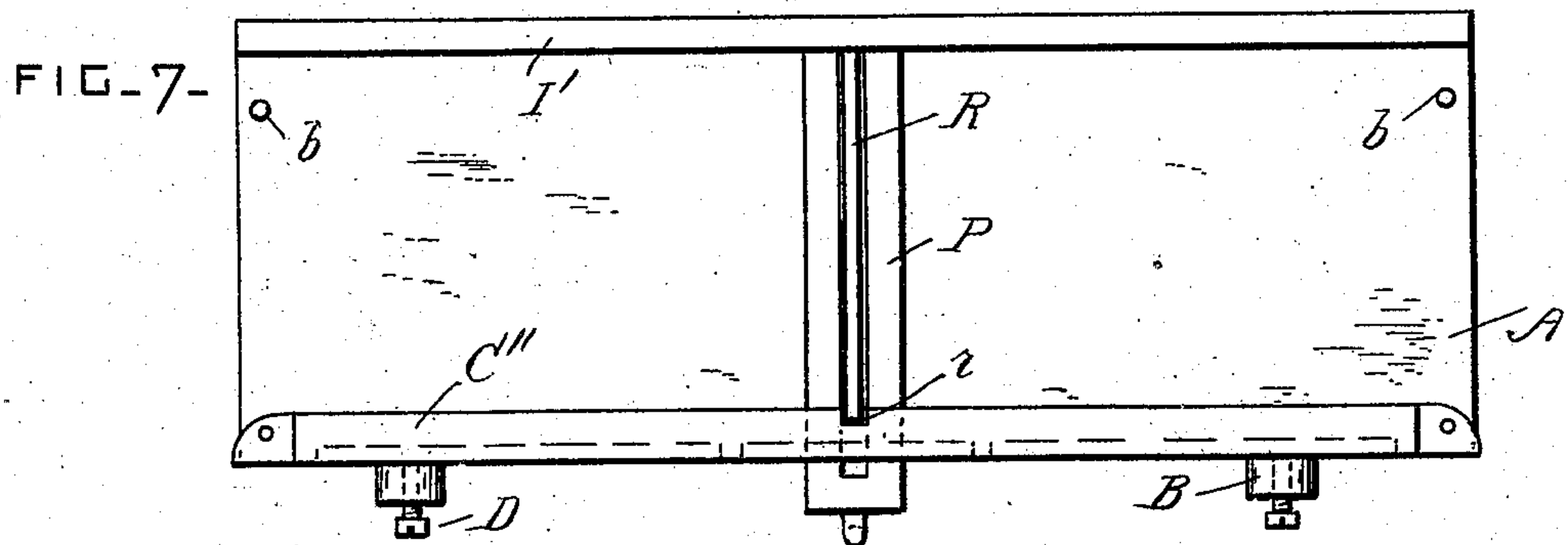
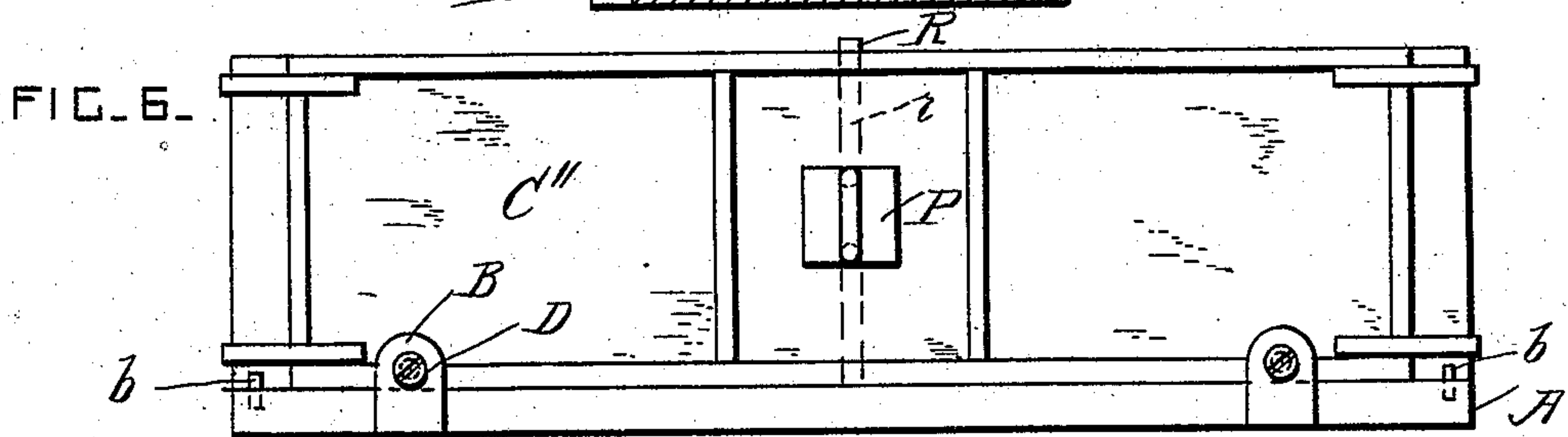
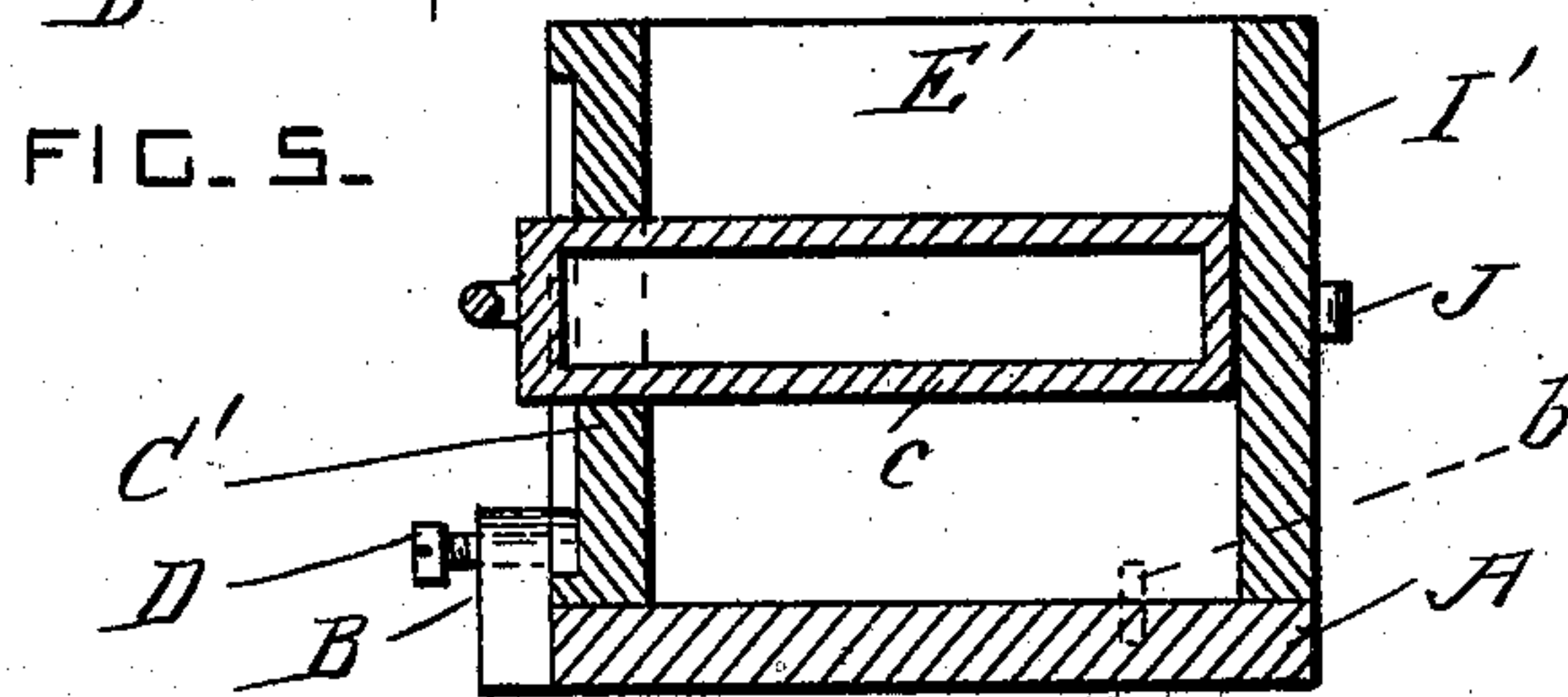
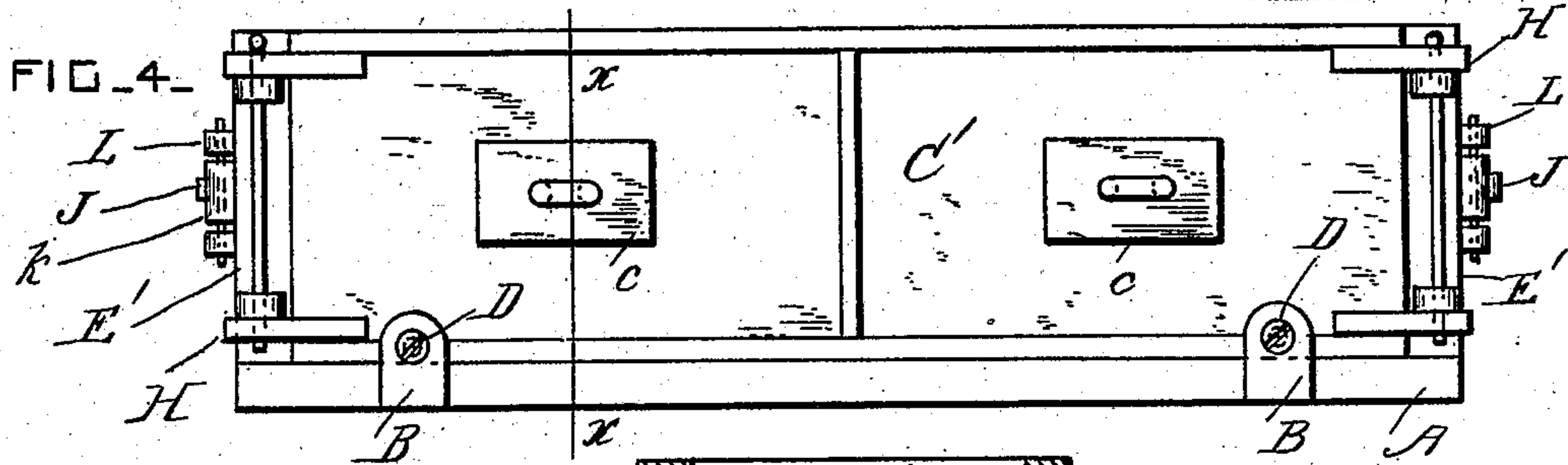
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

PETER A. BOWSHER, OF TERRE HAUTE, INDIANA, ASSIGNOR TO MODERN
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PORATION OF INDIANA.

MOLD.

No. 855,091.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed September 25, 1906. Serial No. 336,101.

To all whom it may concern:

Be it known that I, PETER A. BOWSHER, a citizen of the United States, residing at Terre Haute, in the county of Vigo and State of Indiana, have invented certain new and useful Improvements in Molds; 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.

This invention relates to molds for forming blocks of building material; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view of a mold. Fig. 2 is a plan view, and Fig. 3 is an end view, of the mold shown in Fig. 1. Fig. 4 is a side view of a modified mold for forming straight blocks. Fig. 5 is a cross-section taken on the line $x-x$ in Fig. 4. Fig. 6 is a side view, and Fig. 7 is a plan view, showing the side plate used when half blocks are formed. Fig. 8 is a plan view showing the angle-piece which is placed in the mold when blocks with angle-shaped ends are to be formed.

A is the stretcher or base-plate on which the block is formed. The surface of this stretcher may be smooth or it may be carved so as to mold an imitation of stone upon the surface of the block.

B are two lugs on the front edge of the stretcher A, and b are dowel pins which project upwardly from the end portions of the said stretcher.

The block is molded face downward so that the surface of the stretcher forms the exposed face of the block when the said block is built into a wall.

C is the side plate the bottom edge of which is placed on the stretcher close to the lugs B. D are screws which engage with the said lugs, and which are used to press the side plate rearwardly. The side plate C is provided with holes for receiving the cores c , which are slidable through the said holes.

E and F are the two end plates of the mold. The mold shown in Figs. 1, 2 and 3 is used for making corner blocks, and the end plate F is consequently made higher than the end plate E; and the side plate C is pro-

vided with an extension G at that end. Each end plate is provided with hinges H which connect it pivotally with the side plate, and it has a hole for engaging with the dowel pin of the stretcher.

I is the pallet which forms the rear side of the mold, and which rests on the rear portion of the stretcher. This pallet is a plain flat plate of the required size and shape, and in the mold for corner blocks it has an extension i .

Each end plate is provided with a pivoted hook J for engaging with the pallet. This hook is pivoted on an eccentric j provided with an operating lever or handle k , and the eccentric is pivoted on a pin K between the lugs L on the end plate.

The extension of the mold is also provided with a small end plate M, which is pivoted by hinges m to the extension G of the side plate.

N is a hook which is pivoted to a lug on the free end of the plate M, and which extends across the extension i of the pallet and drops into a hole in a lug n on the extension G. This hook holds the end plate M closed.

The cores c are rectangular blocks provided with handles, and they are of any desired size and shape. Any desired number of cores can be used.

The block is molded face downward of very wet material which is placed and packed within the mold, and in this manner a block of superior quality can be formed. When the block is set sufficiently, the mold is turned over so that the pallet comes at the bottom. The set-screws and dowel pins prevent the parts from slipping when the mold is being turned over. The side plate, stretcher, and end plates, are then removed, and can be used in connection with a similar pallet to form another block. The pallets are not removed from the blocks until after the blocks become hard.

In the modification shown in Figs. 4 and 5, the side plate C' and the pallet I' are not provided with extensions, and the hinged end plates E' are of equal height. This mold is suitable for forming straight blocks.

C'' is a side plate which is used in place of the side plate C' to form two blocks in one mold. The side plate C'' is provided with a slotted bar P which is slidable horizontally in a hole in the side plate. A partition plate

R is provided and is slidable vertically in the slot of the bar P and in a guide groove *r* in the inner face of the side plate.

S is an angle-shaped piece which is placed
5 in either of the molds in order to form a block with an angle-shaped end instead of a square end. This angle-shaped piece is formed of two plates of unequal length secured together at an angle and having beveled ends *s*. The long plate extends across
10 the mold, and the shorter plate projects from it. The beveled ends rest against the side plate and pallet, and the plates are temporarily secured in the mold in any approved
15 manner.

What I claim is:

1. In a mold, the combination, with a stretcher having lugs at its front edge, of a removable pallet, side plate and end plates
20 provided with means for connecting them together, stops which prevent all the said parts from sliding on the said stretcher, and screws engaging with the said lugs and forcing the said side plate rearwardly.

25 2. In a mold, the combination, with a stretcher having lugs at its front edge, of a pallet resting on the rear part of the said stretcher, a side plate resting on the front part of the stretcher, set-screws engaging
30 with the said lugs and forcing the side plate rearwardly, end plates hinged to the said side plate and provided with catches for engaging with the said pallet, and dowel pins engaging with the said end plates and the
35 end portions of the said stretcher.

3. In a mold, the combination, with a stretcher, of a pallet at the rear part of the stretcher provided with an extension at one end, end plates of unequal height hinged to
40 the said side plate and provided with catches

for engaging the said pallet, and a short end plate hinged to the extension of the said side plate above the middle portion of the mold and provided with a fastening device for holding it in engagement with the said ex- 45 tension of the pallet.

4. In a mold, the combination, with a stretcher, and a side plate and a pallet resting thereon; of an end plate hinged to the said side plate and provided with projecting
50 lugs, an eccentric pivoted between the said lugs and provided with an operating device, and a hook for engaging with the pallet pivoted on the said eccentric and operating to press the end portion of the said pallet forcibly against the rear edge of the said end plate
55 when the said eccentric is turned in one direction.

5. In a mold, the combination, with a stretcher, and a side plate and a pallet resting thereon, said side plate being provided
60 with a guide hole and a vertical guide groove; of a slotted bar slidable horizontally in the said guide hole, and a partition plate slidable vertically in the slot of the said bar. 65

6. In a mold, the combination, with a stretcher, and a side plate and a pallet resting thereon; of an angle-shaped piece extending between the said side plate and pallet and formed of two plates of unequal
70 length having beveled ends, the longer of the two said plates extending across the mold and having one end of the shorter plate secured to its middle portion.

In testimony whereof I have affixed my 75 signature in the presence of two witnesses.

PETER A. BOWSHER.

Witnesses:

W. T. GLEASON,
DANIEL M. DUNCAN.