

(No Model.)

2 Sheets—Sheet 1.

F. A. FORD.

MOLD FOR MEASURING AND PARTIALLY SHAPING CIGAR FILLERS.

No. 376,147.

Patented Jan. 10, 1888.

Fig. 1. x

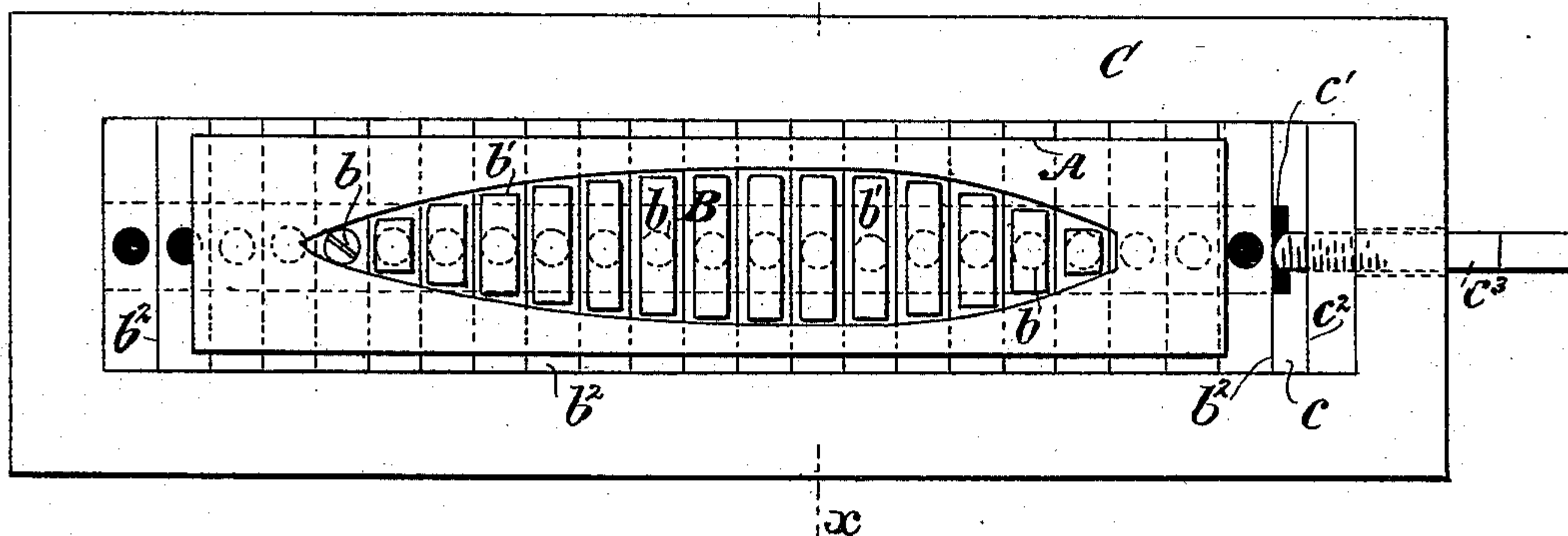


Fig. 2.

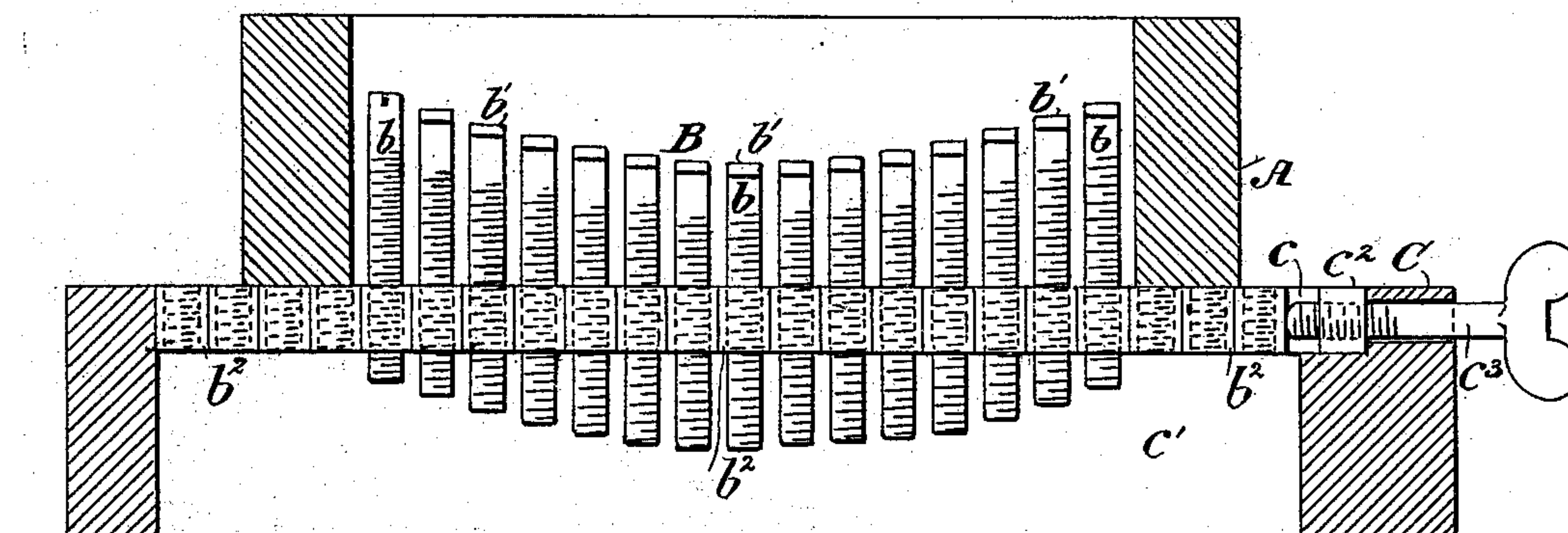
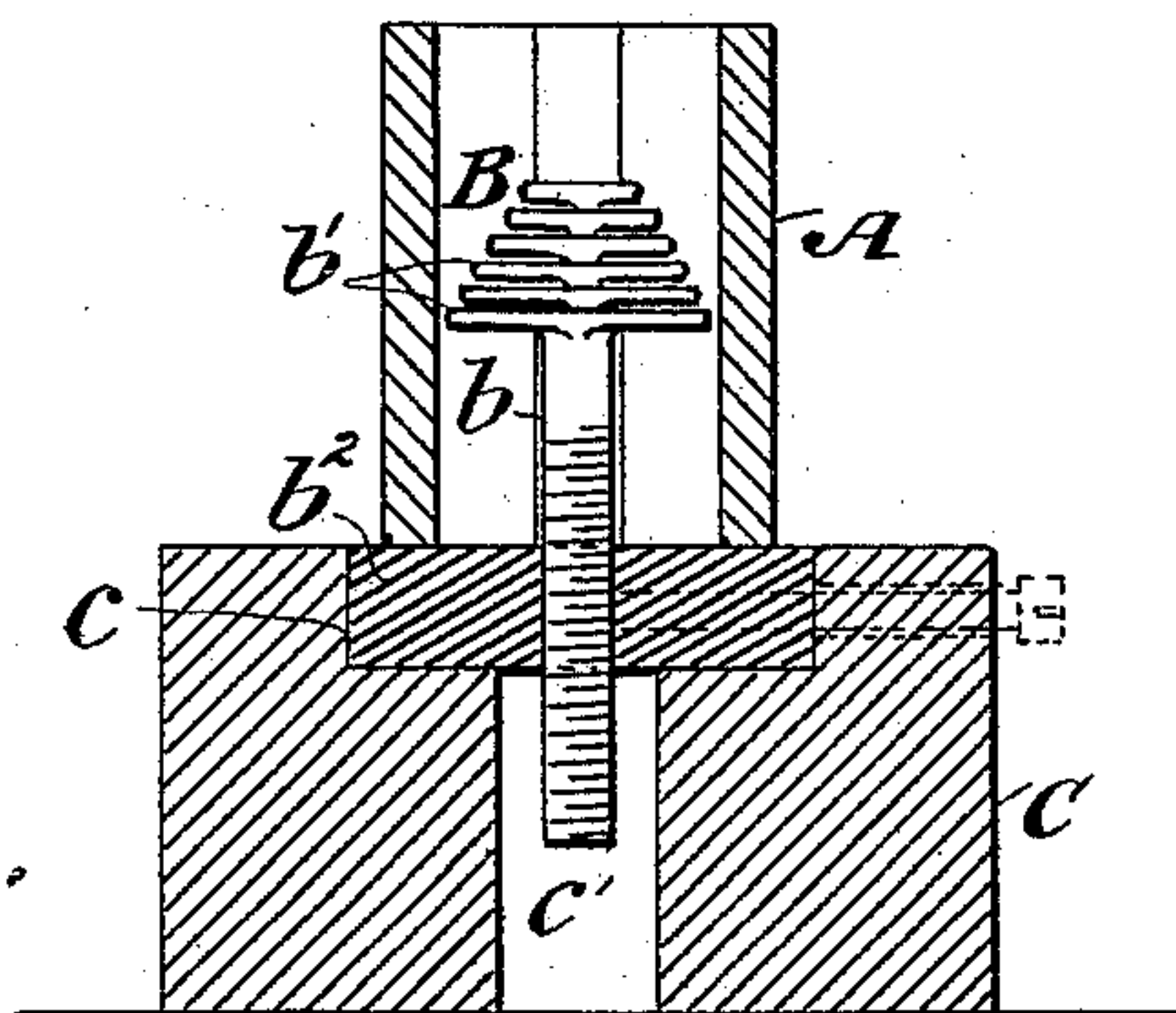


Fig. 3.



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Fig. 4.

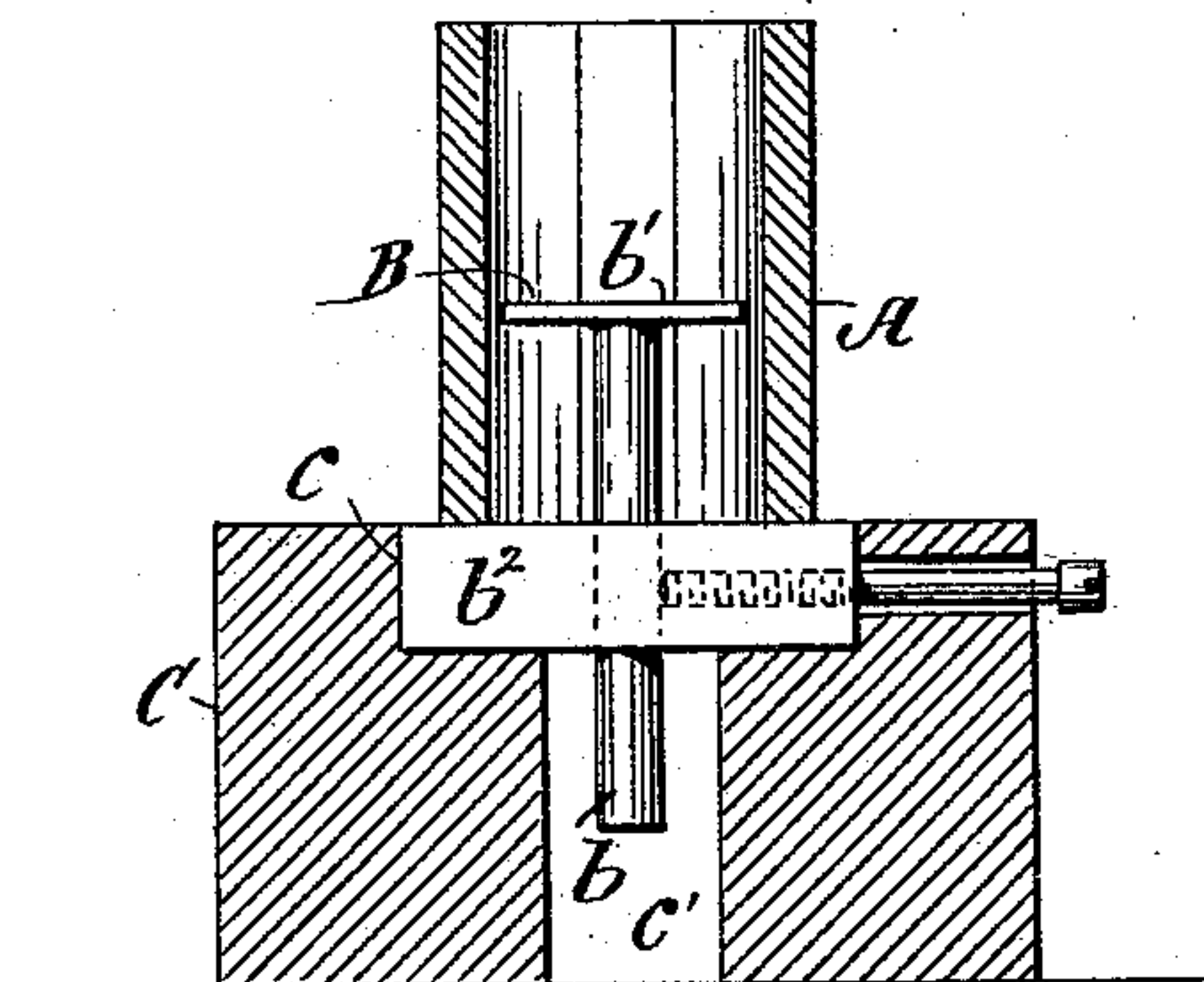
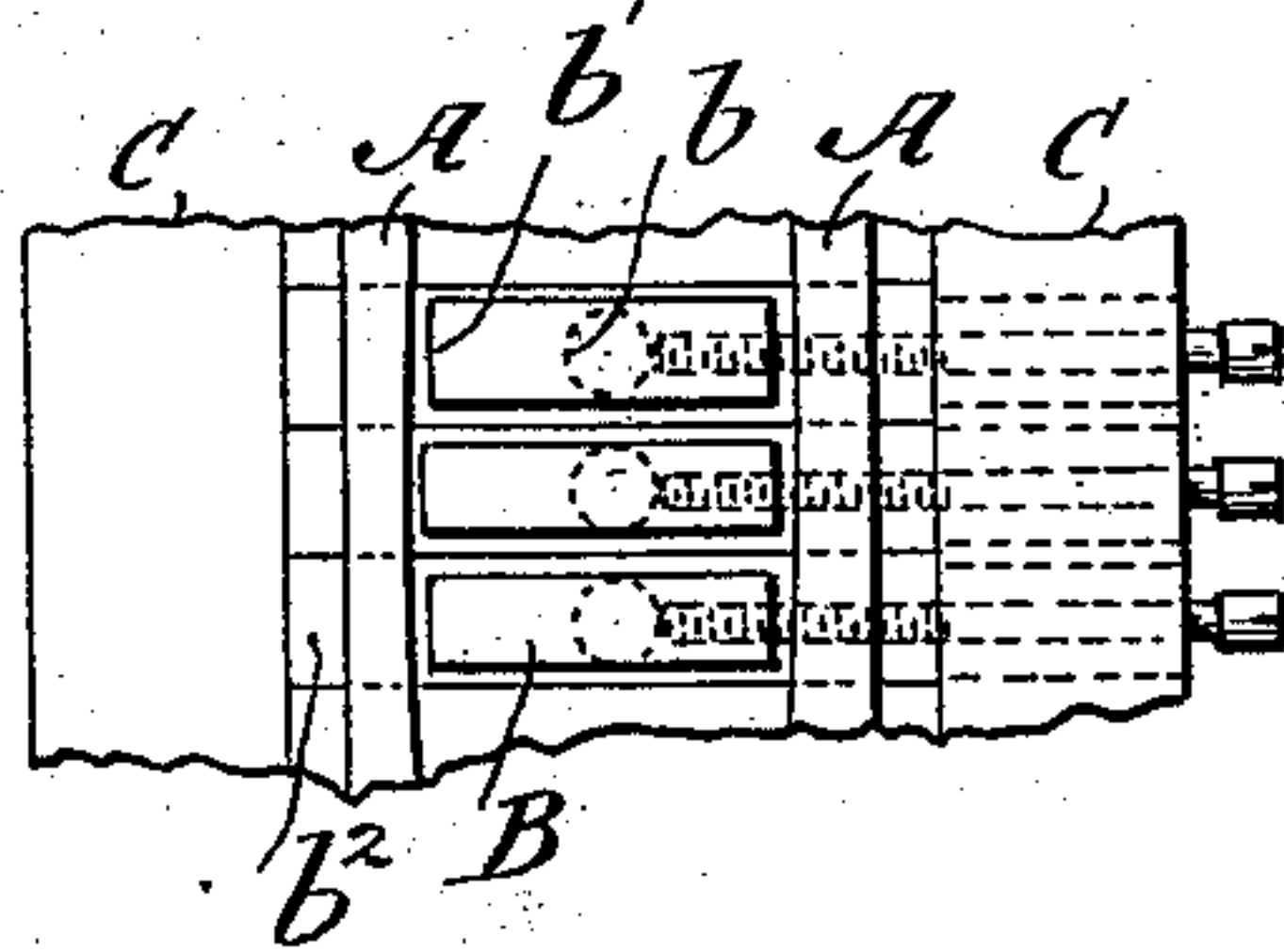


Fig. 5.



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UNITED STATES PATENT OFFICE.

FREDERICK A. FORD, OF NEW YORK, N. Y.

MOLD FOR MEASURING AND PARTIALLY SHAPING CIGAR-FILLERS.

SPECIFICATION forming part of Letters Patent No. 376,147, dated January 10, 1888.

Application filed April 20, 1887. Serial No. 235,453. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK A. FORD, of the city, county, and State of New York, have invented a new and useful Improvement in Molds for Measuring and Partially Shaping Cigar-Fillers, of which the following is a specification, reference being made to the accompanying drawings, forming part thereof.

The object of my invention is to provide a mold wherein the quantity of tobacco for the filling of cigars may be regulated at any portion lengthwise of said mold, whereby greater uniformity in the quantity of the filling will be attained.

I will describe a mold embodying my improvements, and then point out the novel features in the claims.

In the drawings, Figure 1 is a top view of a mold for measuring and partially shaping cigar-fillers, constructed according to my invention. Fig. 2 is a vertical section thereof. Fig. 3 is a transverse section taken on the line xx , Fig. 1. Fig. 4 is a transverse section of said mold, illustrating a modification, and Fig. 5 is a plan of a portion of the same.

Similar letters refer to similar parts throughout the several views.

A designates the body or sides of a mold for measuring and partially shaping cigar-fillers, the inner walls of which are vertically parallel and of any desired length or contour lengthwise. It may be of wood and constructed of one piece, or in two parts secured together by screws or other suitable means.

B is the base portion or bottom of the mold made in sections vertically adjustable independently of one another within the sides of the mold, and which vary the depth of the latter at any point. As here shown, the base portion B consists of a number of posts, b , provided on their upper ends with heads b' , varying in width to correspond to the contour of the mold, which heads are preferably made flat on their upper sides. The posts b are screw-threaded to engage in nuts b^2 , the upper sides of which form a level surface upon which the mold loosely rests while being filled.

C is a supporting-frame, which may be of wood and constructed in one piece or in parts properly secured together, and is provided with a recess, c , in which the nuts b^2 loosely fit, and also with a central opening, c' , extending

lengthwise to afford room for the movement of the posts b . At one end of the recess c is a lock-nut, c^2 , through which passes a thumb-screw, c^3 , serving to clamp the nuts b^2 in place after the posts have been adjusted. Instead of screw-threaded posts there may be used plain posts fitting corresponding holes in blocks similar to the nuts b^2 , and secured in position by means of set screws horizontally arranged, passing loosely through one side of the frame C and entering tapped holes in the said blocks. This modification is illustrated in dotted outline in Fig. 3 and more fully in Figs. 4 and 5.

It has been found in practice that with the same mold some operatives will use more filling than others, on account of the difference of pressure they naturally exert. By my invention I am enabled to regulate the quantity of filling in making cigar-bunches. By raising or lowering the base or any portion thereof the same mold can be adapted to different operatives, and more uniformity in result attained.

In order to raise or lower any portion of the base B the thumb-screw c^3 is loosened, and any desired section raised sufficiently to admit of turning the head b' , after which it is replaced and secured. After the mold is filled it is lifted from the base and the contents forced out upon the binder within which they are wrapped, and transferred either to ordinary molds adapted to give the proper form to the bunch or directly to the wrapper.

In order to provide for molds A of different lengths extra nuts, b^2 , are provided to receive posts supplied with heads, forming additional base-sections.

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

1. A mold for measuring and partially shaping cigar-fillers, having its bottom or base portion composed of sections each vertically adjustable independently of one another, substantially as described.

2. A mold for measuring and partially shaping cigar-fillers, having its bottom or base portion composed of sections each vertically adjustable independently of one another, in combination with a supporting-frame wherein said sections are secured, substantially as described.

3. The combination of the mold A, the base B, composed of the screw-threaded posts b , provided with head portions b' , nuts b^2 , frame C, provided with recess c and opening c' ,
5 clamping-screw c^3 , and nut c^2 , substantially as described.

4. The combination of the mold A, the base B, composed of a series of posts, b , provided with heads graduated in width to correspond
10 with the contour of the mold, nuts b^2 , and frame

C, provided with a clamping device, substantially as described.

In witness whereof I have hereunto subscribed my name in the presence of two subscribing witnesses.

FREDERICK A. FORD.

Witnesses:

PHILIP J. O'REILLY,
GEO. WADMAN.