

(No Model.)

2 Sheets—Sheet 1.

J. DELA MAR.
DEVICE FOR SHAPING CIGAR FILLERS.

No. 547,555.

Patented Oct. 8, 1895.

Fig. 1.

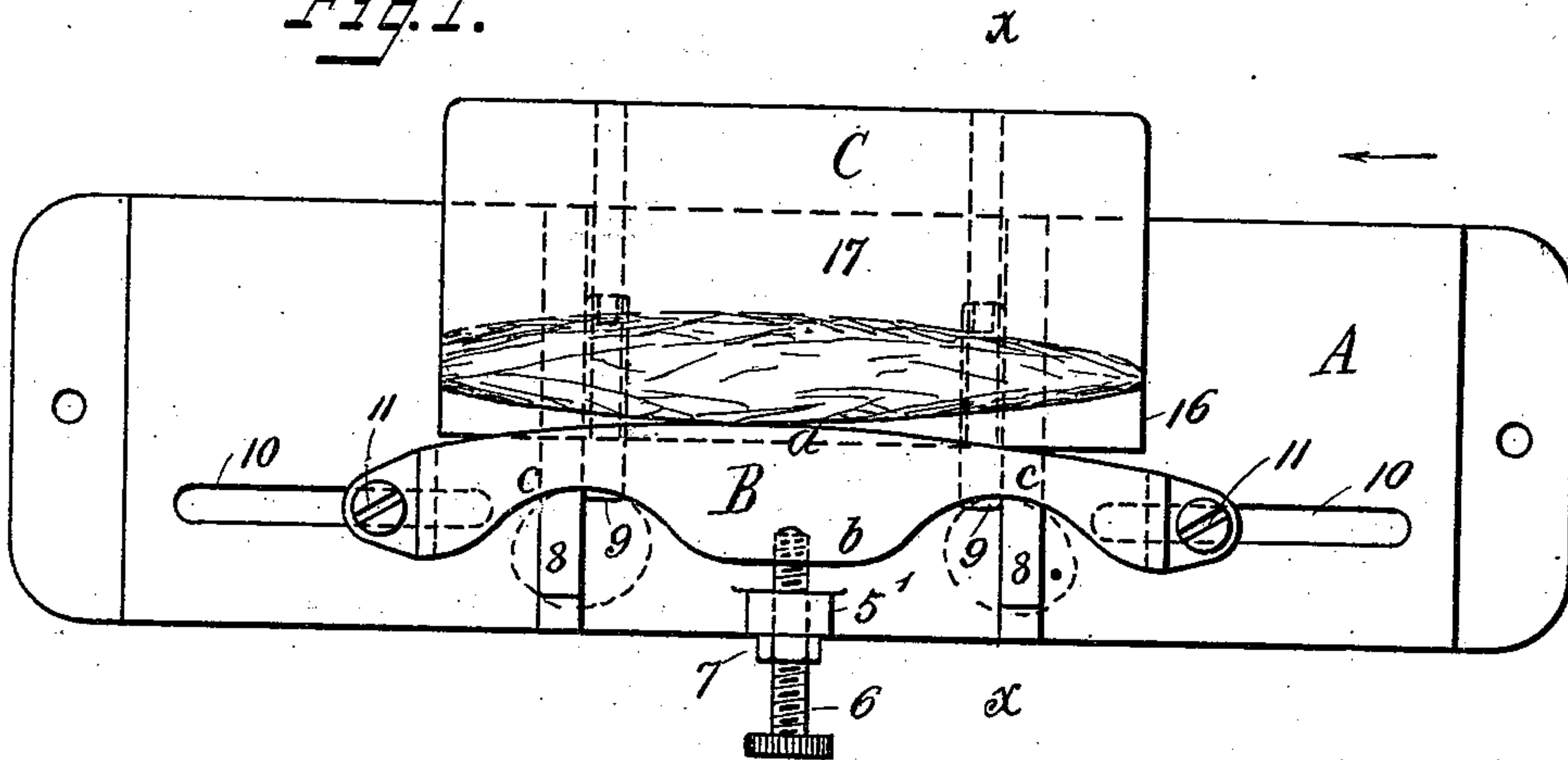


Fig. 2.

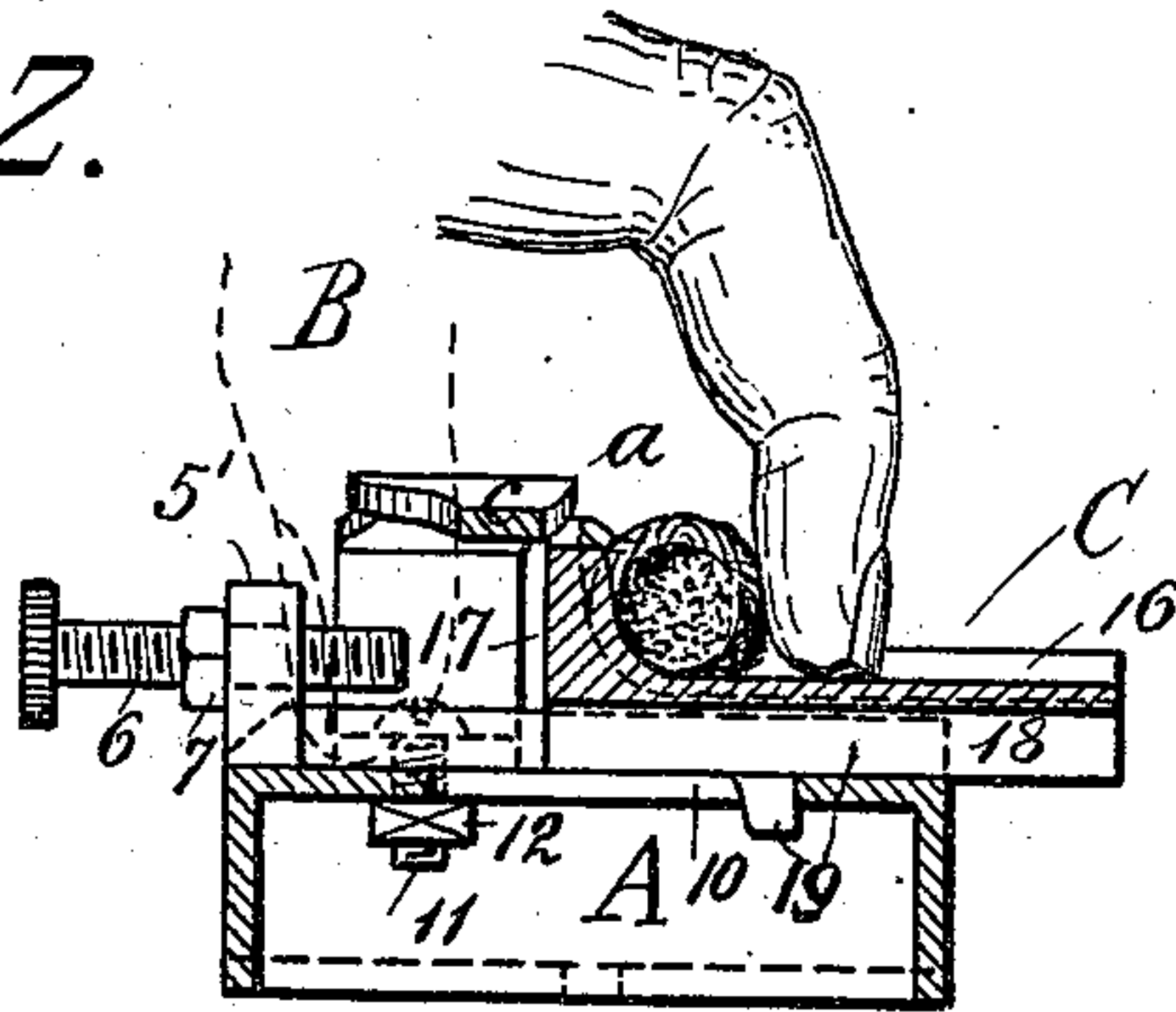
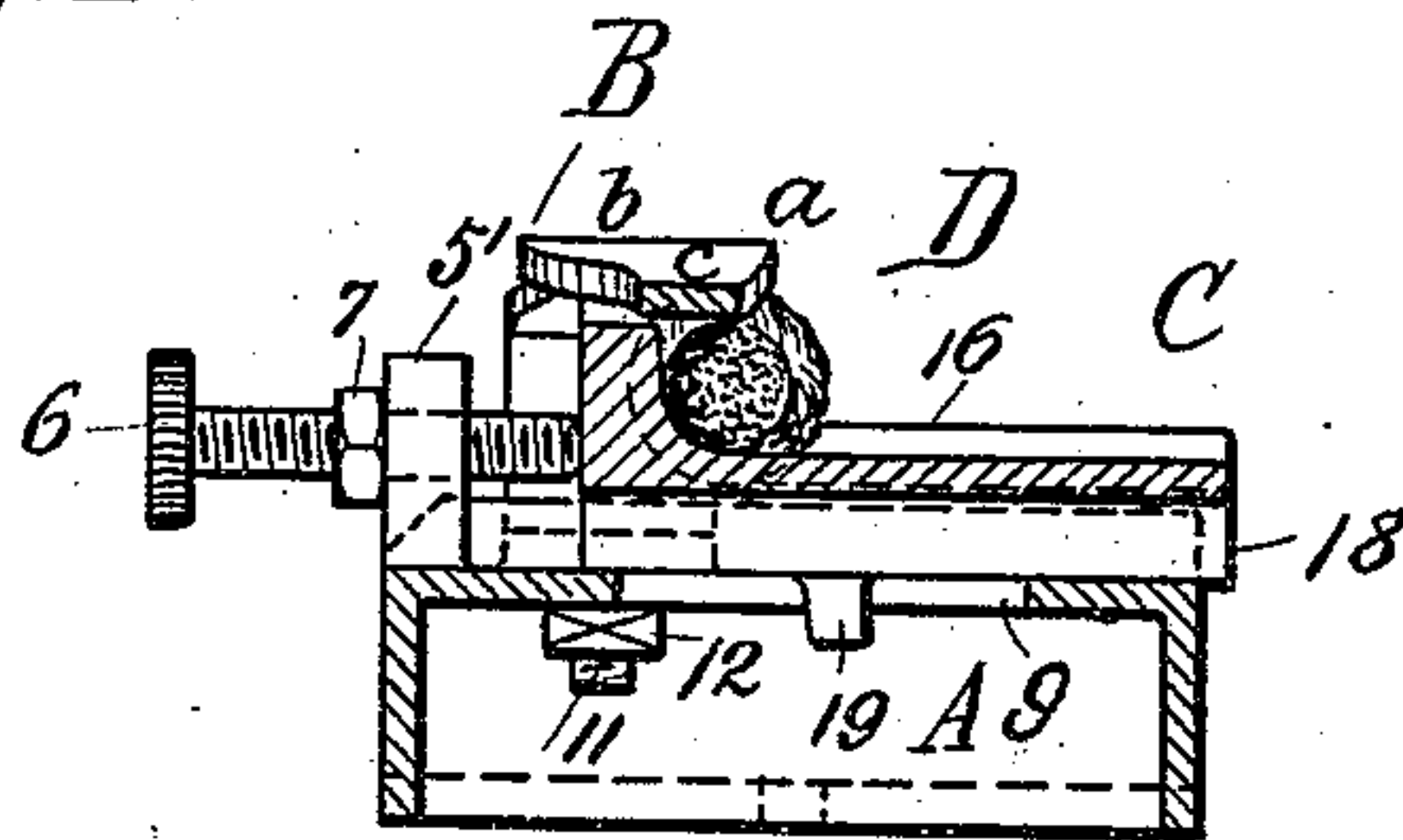


Fig. 3.



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2 Sheets—Sheet 2.

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Fig. 4.

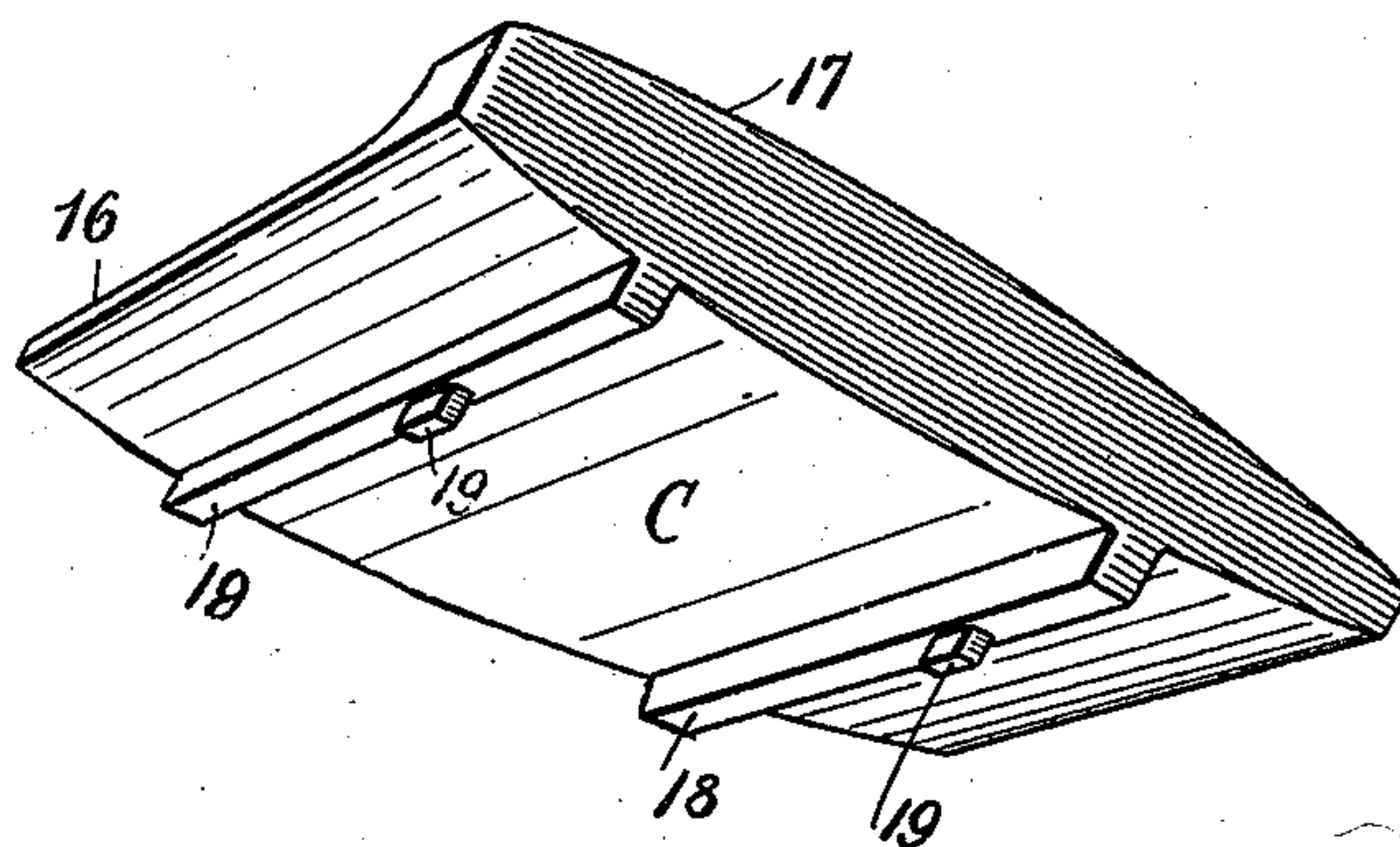


Fig. 5.

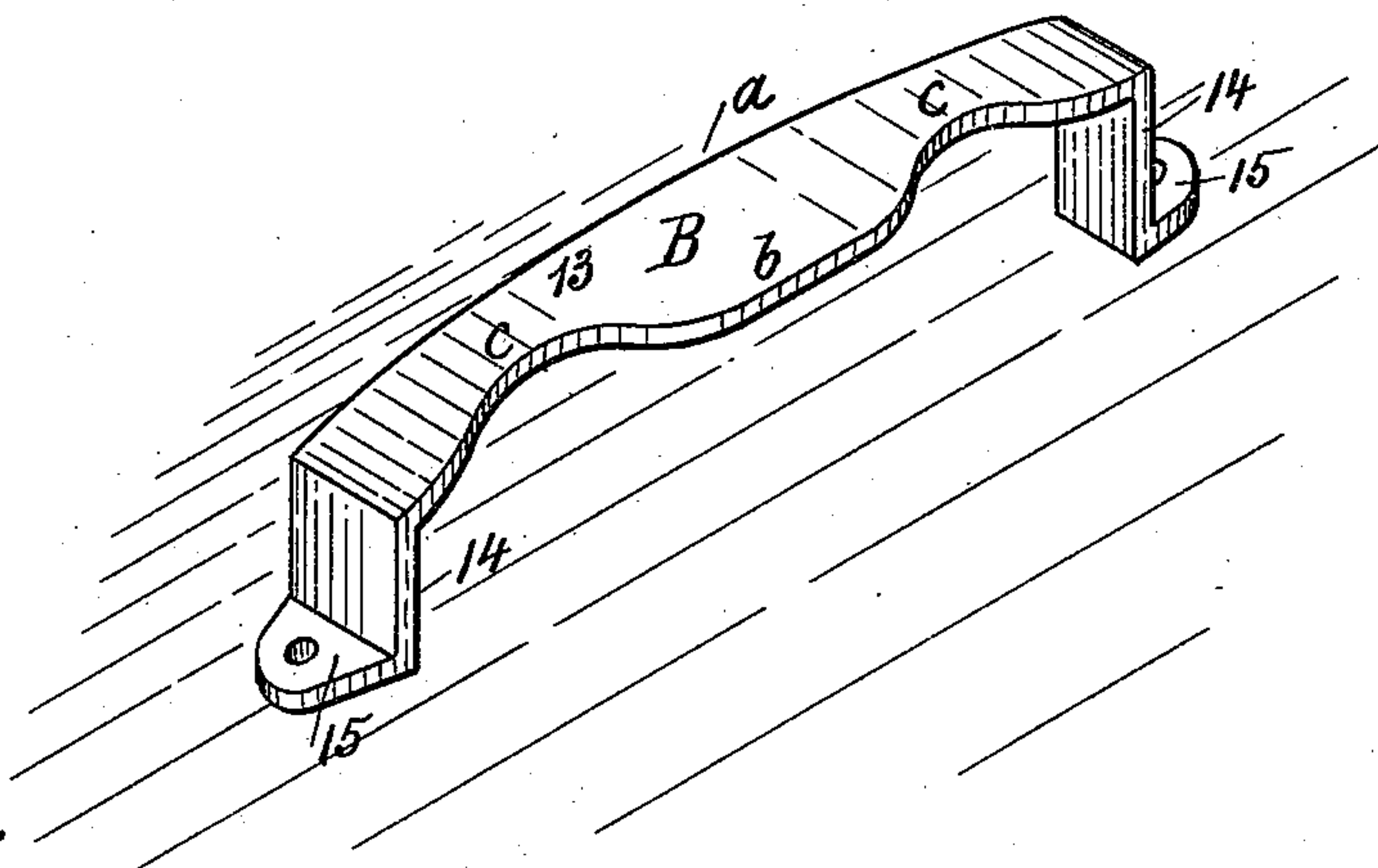
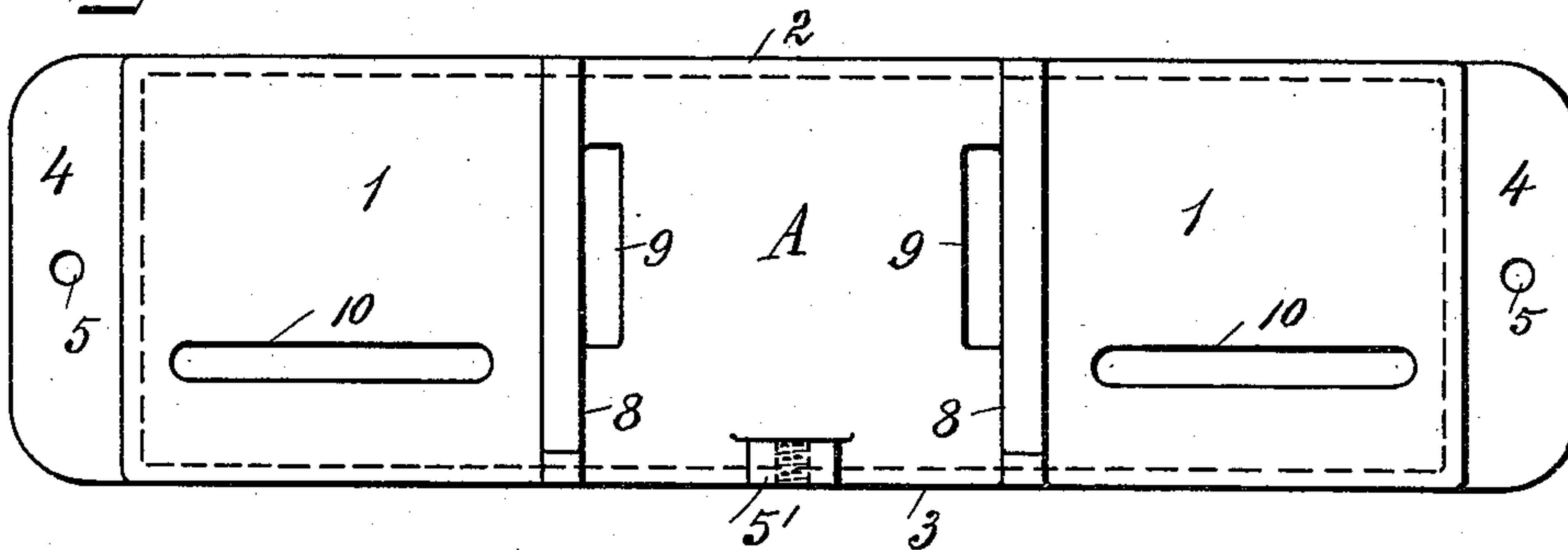


Fig. 6.



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UNITED STATES PATENT OFFICE.

JOSEPH DELA MAR, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO
LEON KLEIN, OF SAME PLACE.

DEVICE FOR SHAPING CIGAR-FILLERS.

SPECIFICATION forming part of Letters Patent No. 547,555, dated October 8, 1895.

Application filed April 11, 1895. Serial No. 545,413. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH DELA MAR, a citizen of the United States, residing in the city and county of New York, in the State of New York, have invented certain new and useful Improvements in Devices for Shaping Cigar-Fillers, of which the following is a specification, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of my invention is to provide a shaper to be used in forming the filling-tobacco of cigar-bunches into the required cigar-shape, preparatory to rolling and inclosing such filling-tobacco in the binder-leaf to form the cigar-bunch, which shall be of simple and cheap form of construction, by the use of which unskilled labor may quickly and easily shape the fillers for cigars into uniform size, shape, and consistency with exceeding rapidity.

To that end my invention consists, broadly, of a suitably-formed slide-plate reciprocating beneath a top plate of such form that a cavity of cigar shape will be formed at the rear end of such slide-plate when the same is pushed back underneath the top plate, two walls of which cavity will be formed by the bottom of the slide-plate and an upwardly-extending back flange thereof, and another by the top plate, while the front of the mold-cavity thus formed will be open.

My said invention is fully shown and described in the following specification, of which the accompanying drawings form a part, wherein similar letters or numerals of reference designate like or equivalent parts wherever found throughout the several views, and in which—

Figure 1 is a top plan view of my said improved cigar-filler-shaping device, with a shaped bunch of filling-tobacco in position to be removed therefrom. Fig. 2 is a side view thereof in section on the line xx of Fig. 1, looking in the direction of the arrow. Fig. 3 is a like view in section on the same line, showing the position assumed by the various parts during the shaping of the filling-tobacco. Fig. 4 is a bottom and back view of the slide-plate of the shaper. Fig. 5 is a top and back view of the top plate, and Fig. 6 is a top

plan view of the bottom or base plate of such shaper.

Referring to the drawings, the reference-letter A designates the base-plate of my improved form of cigar-filler-shaping device, the letter B the top plate, and the letter C the slide-plate, while D designates the mold-cavity, which is formed by the combination of the plates B and C, and is substantially of the shape of the bunch desired to be formed by such shaper.

The base-plate A is preferably of substantially the shape shown, consisting of a flat top or table 1, provided with downwardly-depend- ing sides 2 and ends 3, to the bottom of the latter of which are preferably secured suitable outwardly-extending flanges 4, provided with suitable holes 5 for the reception of screws, by which such base-plate A is secured to the top of a suitable table or other support, (not shown,) and such base-plate A is preferably formed of a single piece of cast-iron or other suitable metal. Projecting upward from the table 1 of such base-plate A at about the center thereof and at the side of such table which is nearest to the operator when the shaper is being used, which side will for convenience of description be hereinafter termed the "back," while that opposite thereto will be termed the "front," is a stud 5', provided with a suitable screw-threaded hole adapted to receive a suitable set-screw 6, which is provided with a binding-nut 7. Located on top of the table 1 of such base-plate A, on either side of the stud 5, projecting upward a short distance from the upper surface of such table and extending across the same from front to back thereof are two slide-rails 8, on the inner side of which and parallel therewith is in each case a slot 9 formed in and through the table 1; and outside of each of such slide-rails and located near the back side of the table 1, and extending from near to the said slide-rails outward at substantially a right angle to such rails, are slots 10, which are formed in and through the table 1 in the same manner as are the slots 9, and such slots 10 serve to assist in holding the top plate B in place upon such base-plate A, screw-bolts 11 passing for that purpose through the lower ends of such top plate B and through said slots 10, and be-

ing provided with suitable nuts 12 at the lower end thereof, as shown, and by reason of the slots 10 being of the elongated form shown top plates B, varying greatly in length, may be used with the same base-plate.

The top plate B is preferably of substantially the shape shown in detail in Fig. 5, consisting of a top piece 13, provided with downwardly-extending end portions 14, having outwardly-extending flanges 15, provided with suitable holes adapted to receive the bolts 11.

The slide-plate C, which when the device is in operation reciprocates from front to rear of the base-plate underneath the top plate on top of the rails 8, is preferably of substantially the shape shown, consisting of a forward table portion 16 and an upwardly-extending rear portion or back flange 17, which parts, for convenience of description, will be hereinafter referred to as the table and back flange, respectively. Such slide-plate is also preferably provided on its under side with suitable downwardly-projecting guide-rails 18, having downwardly-projecting studs 19, such rails and studs being so located that when the slide-plate is in position upon the base-plate such rails will be on the inner sides of the guide-rails 8, and the studs will be located in the slots 9, so as to slide easily along the same as the slide-plate is reciprocated. The back flange 17 is preferably of the shape of the cigar desired to be formed of the filler-tobacco shaped by the device, and the table 16 of such slide-plate is also of a curved form similar to the outline or contour of such bunch, while the forward side of the back flange is concaved or hollowed out into a rounded cigar-shaped hollow, and in like manner the forward edge *a* of the top plate B is formed in a curve substantially similar to such cigar-bunch outline, while the entire top plate is made higher at the center than at the ends, and of such a curve as to fit closely over the top of the back flange along the entire length thereof. The top portion of the table B is also preferably provided with a wide central portion *b*, flanked on either side by narrower portions *c*, which portions *c* are provided to receive the thumbs of the operator when engaged in pushing the slide-plate forward upon the base-plate, as shown in Figs. 1 and 2 in dotted lines.

It will be seen that inasmuch as the upper side of the table 16, the forward side of the back flange 17 of the slide-plate C, and the forward edge *a* of the top plate B, are all of cigar shape or outline when such slide-plate C is pushed back beneath the top plate B into the position shown in Fig. 3, so that the rear side of the back flange abuts against the set-screw 6, and the mold-cavity D, walled on three sides by the top plate, slide-plate table, and slide-plate-back flange, is filled with filler-tobacco flush with the outer edge of the top plate B, that such filler-tobacco will then be of substantially a cigar shape, and it will also be seen that the mold-cavity D may be in-

creased or diminished in size in an instant by an adjustment of the set-screw 6, with a consequent increase or diminution in the size of the bunch of filler-tobacco shaped therein.

The operation of the device is as follows: The set-screw 6, having been set so as to make the mold-cavity D of the size required to form the bunch to be shaped, and having been fixed against accidental movement by screwing the binding-nut 7 tightly up against the stud 5, the operator places a quantity of filler-tobacco upon the table 16 of the slide-plate C and pushes the same back into the mold-cavity D with his fingers, arranging the tobacco therein as he does so until the mold-cavity D is filled with such tobacco flush with the front edge *a* of the top plate B, as shown in Fig. 3, and at this point, while still keeping his fingers lightly pressed against the forward side of the bunch, the operator drops one or both thumbs down behind the top plate at the narrow points *c*, and presses forward against the back flange 17, so as to force the slide-plate forward into the position shown in Figs. 1 and 2, when the shaped bunch of filler-tobacco is removed from the slide-plate, preferably by sliding the same sidewise from the table 16 with the fingers, and after removal such shaped bunch of filler-tobacco is then rolled or inclosed in a suitable binder-leaf to form a finished cigar-bunch in any desired manner.

By constructing the base-plate A with the elongated slots 10, a number of different sized top and slide plates may be used with the same base-plate, and inasmuch as the adjustment given to each slide-plate by means of the set-screw 6 will enable a number of different sized and shaped bunches to be shaped with each pair of these it will be seen that with but one base-plate and a small number of different sized top and slide plates an almost infinite number of different shapes and sizes of cigar-bunches may be turned out.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, what I claim, and desire to secure by Letters Patent, is—

1. In a device for shaping cigar-fillers, the combination with a base-plate A, of a top-plate B, and a slide-plate C, so arranged as to form a cavity for shaping the filler-tobacco, substantially as shown and described.

2. In a device for shaping cigar-fillers, the combination with a base-plate A, of a top-plate B, and a slide-plate C having the table 16 and back-flange 17 reciprocating upon the base-plate beneath the top-plate, substantially as shown and described.

3. In a device for shaping cigar-fillers, the combination with a base-plate A, of a top-plate B the front edge of which is of cigar-shape in outline, and a slide-plate C having a table 16 and a back-flange 17, the top of the table 16 and the front of the back-flange being concaved into substantially cigar-shape, substantially as shown and described.

4. In a device for shaping cigar-fillers, the combination with a base-plate A, of a top-plate B secured thereto, a slide-plate C mounted upon the base-plate so as to reciprocate back and forth beneath the top-plate, and adjustable means for limiting the backward movement of the slide-plate C, substantially as shown and described.

5. In a device for shaping cigar-fillers, the combination with a base-plate A, of a top-plate B, a slide-plate C mounted upon the base-plate so as to reciprocate back and forth beneath the top-plate, and means for limiting the movement of the slide-plate in both directions, substantially as shown and described.

6. In a device for shaping cigar-fillers, the combination with a base-plate A having the slots 9 and 10, of a top-plate B, and a slide-plate C having the studs 19, substantially as shown and described.

7. In a device for shaping cigar-fillers, the combination with a base-plate A having the rails 8 and the slots 9 and 10, of a top-plate B secured to the base-plate, and a slide-plate C, having the guide-rails 18 and studs 19 mount-

ed upon the base-plate and reciprocating beneath the top-plate, substantially as shown and described.

8. In a device for shaping cigar-fillers, the combination with a base-plate A, of a top-plate B, secured thereto and having the enlarged central back portion *b* flanked by a narrower portion *c*, and a slide-plate C mounted upon the base-plate and reciprocating beneath the top-plate, substantially as shown and described.

9. In a device for shaping cigar-fillers, the combination with a base-plate A, having the slots 9 and 10 and the rails 9, of a top-plate B having the curved forward edge *a*, and a slide-plate C having the table 16, back-flange 17, rails 18 and studs 19, substantially as shown and described.

Signed at the city and county of New York, in the State of New York, this 26th day of March, A. D. 1895.

JOSEPH DELA MAR.

Witnesses:

MARY H. FAIRCHILD,
ROBERT M. CURTISS.