

F. C. MILLER.  
Cigar-Molds.

No. 135,572.

Patented Feb. 4, 1873.

Fig. 1

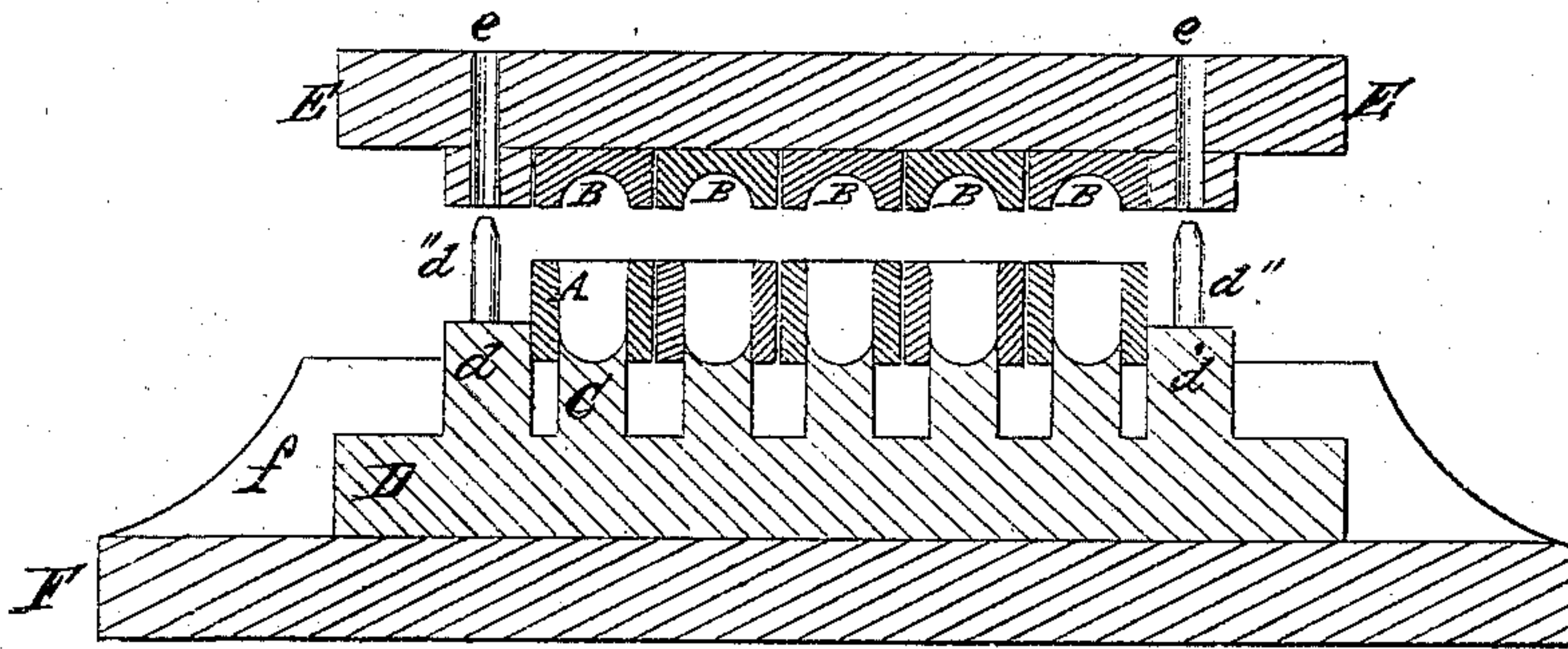


Fig. 2

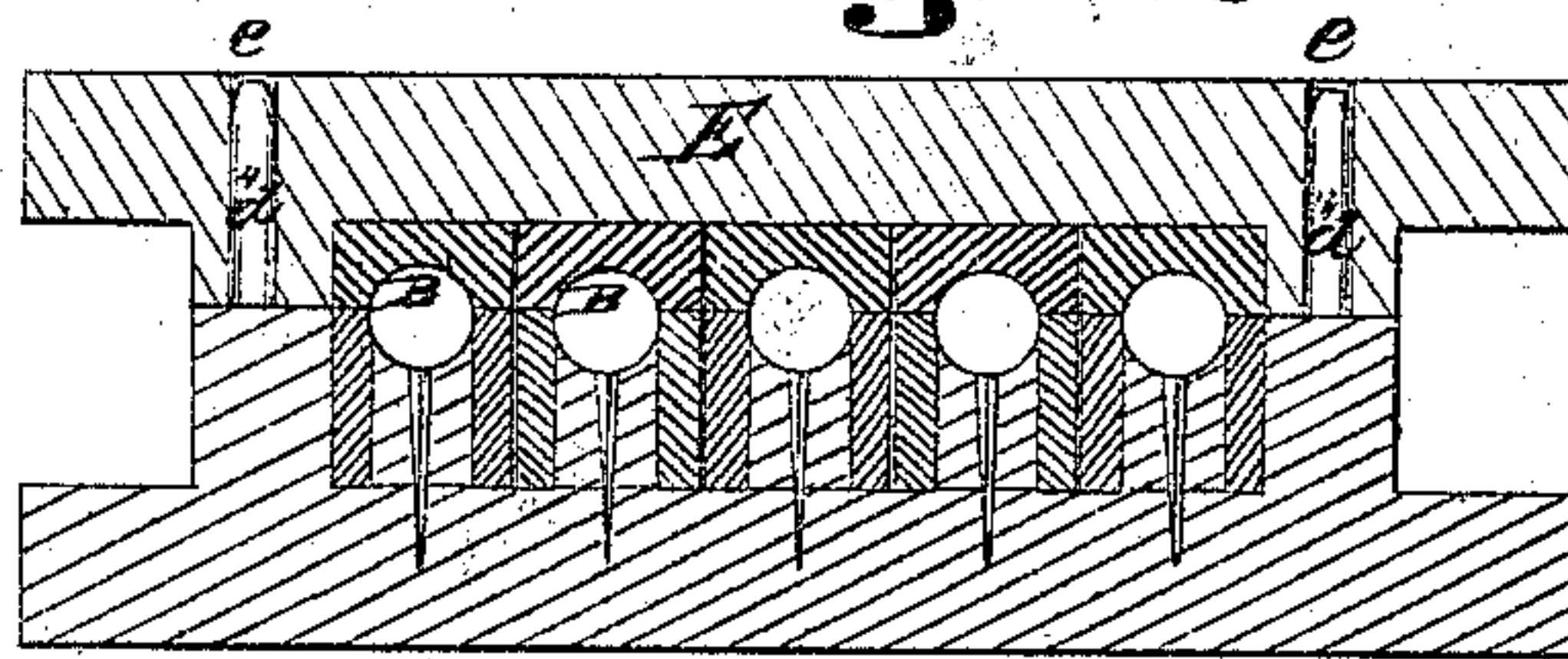


Fig. 3

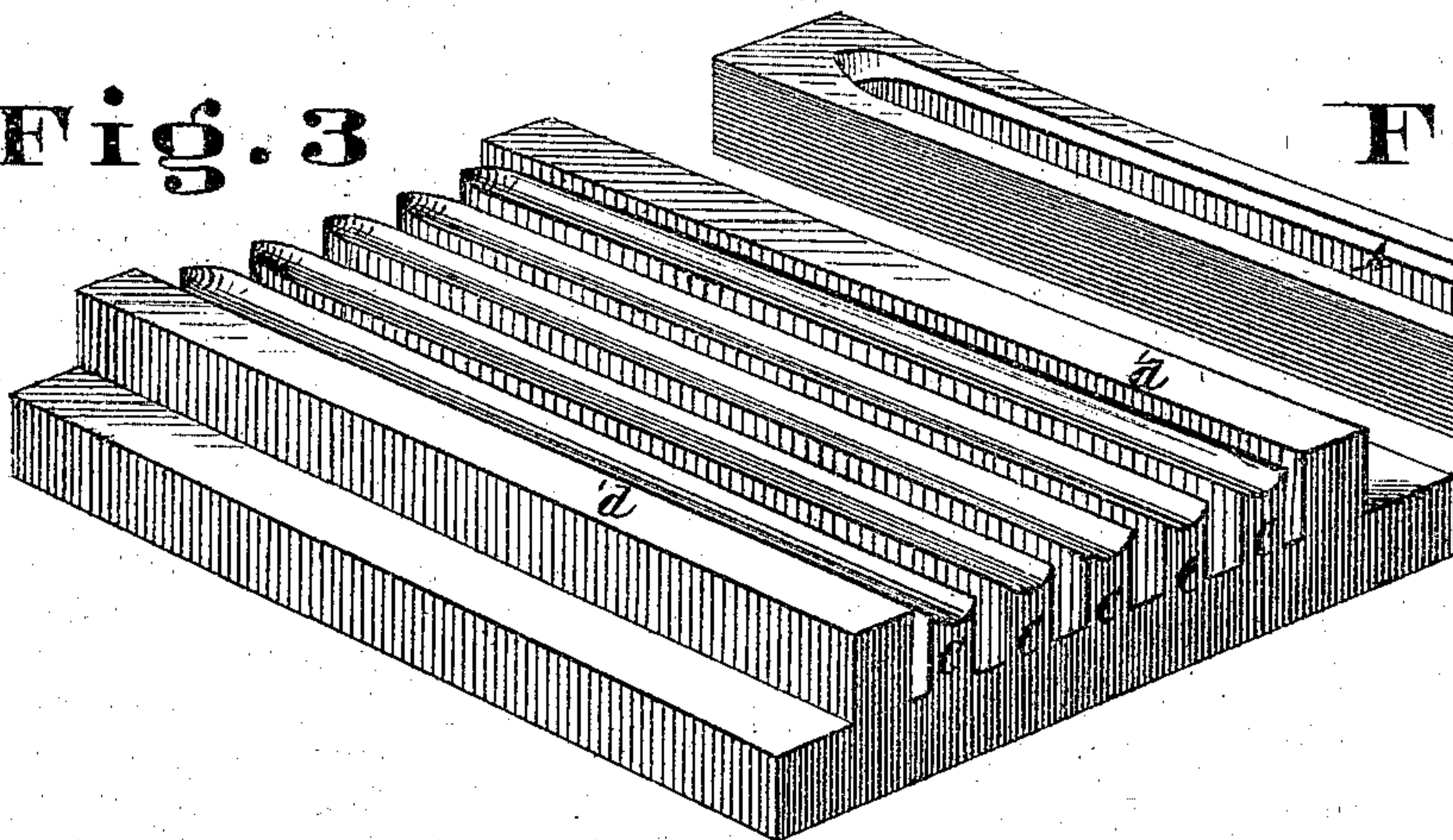
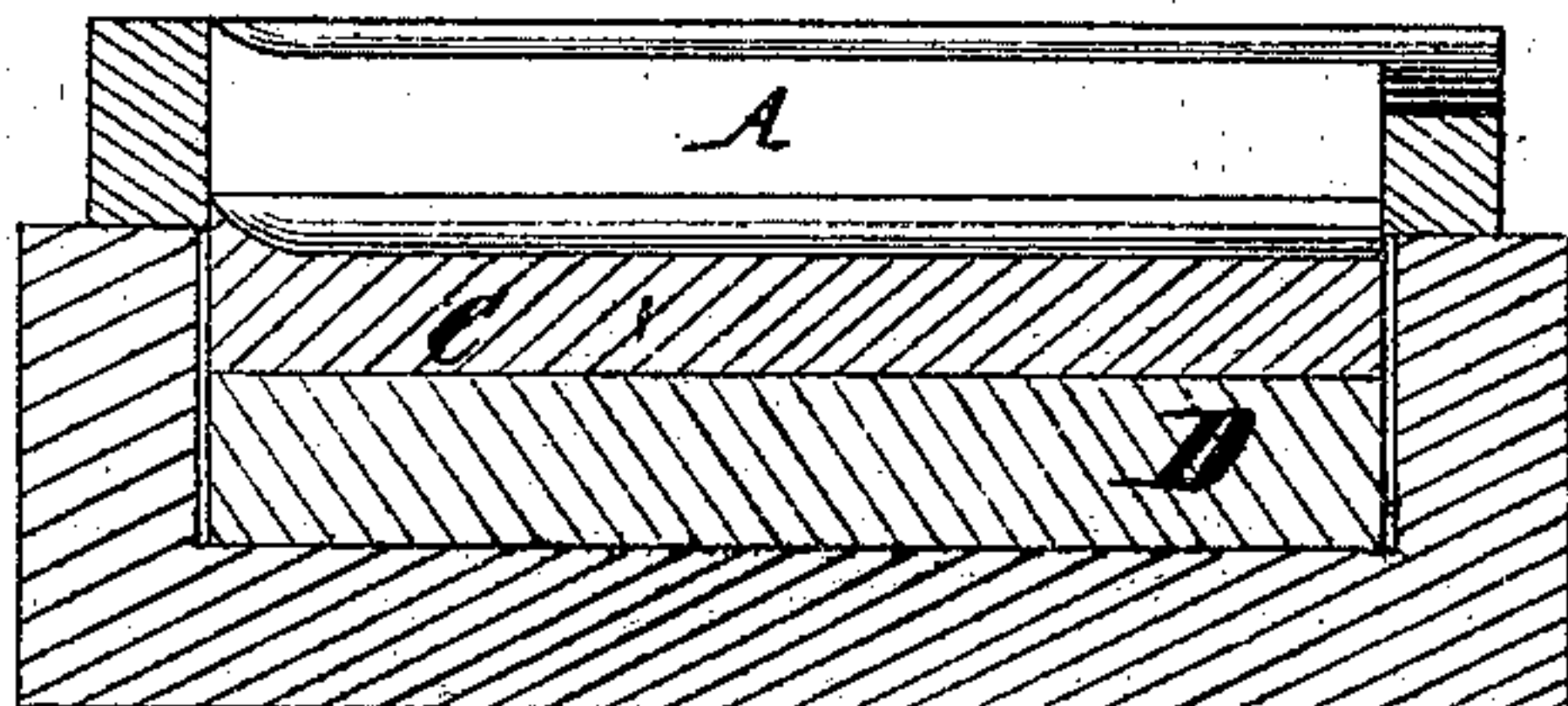


Fig. 4

Fig. 5



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# UNITED STATES PATENT OFFICE.

FREDRICK C. MILLER, OF CINCINNATI, OHIO, ASSIGNOR TO HIMSELF AND HENRY C. PETERS.

## IMPROVEMENT IN CIGAR-MOLDS.

Specification forming part of Letters Patent No. 135,572, dated February 4, 1873.

*To all whom it may concern:*

Be it known that I, FREDRICK C. MILLER, of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Cigar-Molds, of which the following is a specification:

### *Nature and Objects of Invention.*

My invention relates to improvements upon the cigar-mold for which Letters Patent of the United States, No. 116,930, were granted to John Charter, July 11, 1871; and consists in a certain provision and combination of parts in connection with the "Charter" mold, which facilitate the opening and closing of a single mold, assist in securing the parts of the same together, and permit the employment of a number of such molds in one frame.

### *Description of the Accompanying Drawing.*

Figure 1 is a cross-section of a set of molds congregated together in one frame embodying my invention, the molds being in the open position ready to receive the fillings. Fig. 2 is a cross-section of the same in the closed position. Fig. 3 is an isometrical perspective view of one part of the frame with the sliding parts of several molds attached thereto. Fig. 4 is a perspective view of the mortised part of one of the molds. Fig. 5 is a section through the entire molding apparatus in the direction of the length of the molds.

### *General Description.*

The cigar-mold proper (a number of which are shown congregated together) consists of the mortised part A, the grooved part B, to shape the upper half of the cigar, and the grooved interiorly-sliding part C, moving within the interior of the mortised part A, the latter element, C, serving to form the bottom half of the cigar. One or more of the parts C are secured in line to the board D in such a way that between two of the parts C a space, equal to twice the thickness of one of the sides of the mortised part A, shall intervene. The board D has side strips *d d'* secured to it, which are equal in depth to the mortised parts A, the strips having pins *d'' d''* attached for the purpose of fitting holes, *e*, in the top plate or board E, the provision of pins and holes

serving to guide the parts together and preserve them in the proper relation to each other. The parts B are so secured to the top board A as to match the bottom molds C. The board D and parts C are fitted to slide easily between the jaws *f* of a base-board, F, the jaws *f* being of such a height as to permit the ends of the parts A to rest upon the jaws while they (the parts A) are still engaged with the interior sliding parts C, as shown in Fig. 1, the board D resting at this time on the bottom of the base F.

It will be seen that, owing to the provision of boards D and F, after the molds have been closed, as shown in Fig. 2, they can all be immediately opened simultaneously by resting the ends of the parts A upon the jaws *f*, and forcing the board D down upon the base F. The base F is used only when it is necessary to open the molds.

The molds are filled with tobacco while in the position shown in Fig. 1, and when so filled the board D, with its accompanying molds, is removed from the base F, the cover E entered over the guide-pins *d'' d''*, and the parts D E, with all the molds, are forced into position, shown in Fig. 2, by simply resting the board D upon a table and pressing upon the top E.

The parts A may, in place of being mortised, be made in two pieces, not connected together, (the division being made in a vertical plane at the ends,) as the parts cannot become displaced in the proper operation of the apparatus. The parts B may, if preferred, be formed in one piece with the cover E, and the parts C may be formed in one piece with the board D.

### *Claim.*

The plates or boards D and E, provided with a series of cigar-molds, each of which is composed of the parts A, B, and C, in combination with the base F having jaws *f f*, substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

FREDRICK C. MILLER.

Witnesses:

FRANK MILLWARD,  
J. L. WARTMANN.