

F. C. MILLER.
Cigar-Molds.

No. 155,806.

Patented Oct. 13, 1874.

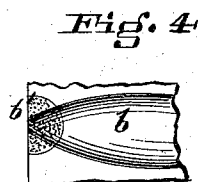
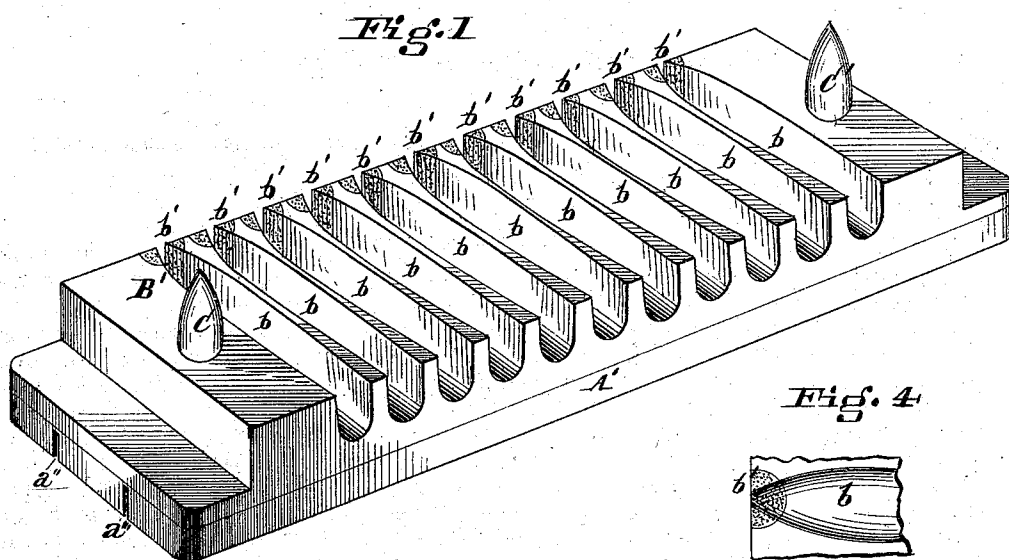


Fig. 2

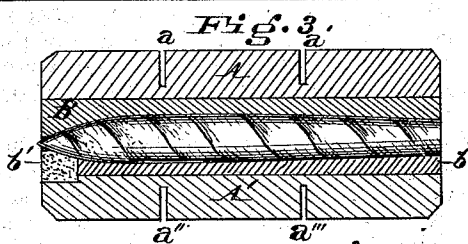
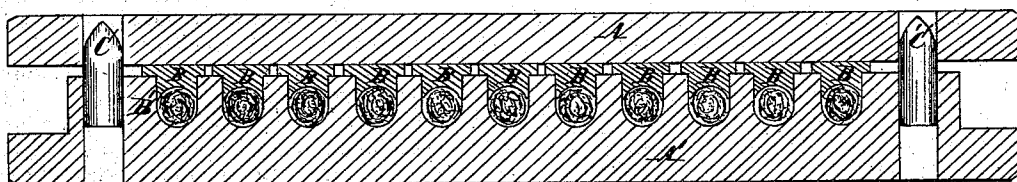
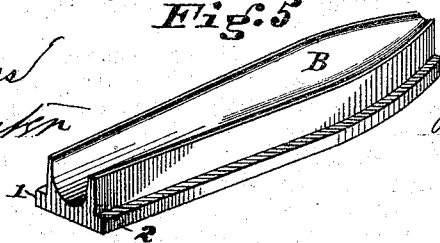


Fig. 5



Attest
Edgar Gross
The Notary

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UNITED STATES PATENT OFFICE.

FREDRICK C. MILLER, OF CINCINNATI, OHIO.

IMPROVEMENT IN CIGAR-MOLDS.

Specification forming part of Letters Patent No. **155,806**, dated October 13, 1874; application filed July 1, 1874.

To all whom it may concern:

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

My invention relates to that class of cigar-molds which are made of wood, put together in sections, the cups of one-half fitting into the sockets of the other half, in such a manner that the inclosed space is circular in cross-section; and consists in a device for improving the durability of the lower half or bed of the mold in the following manner. This part is constructed of two pieces of wood, the lower one of which has the grain running in the direction of its length, and the upper one (or lower half of the mold proper) has the grain running in the direction of its width, and the direction of the length of the sockets formed in it. Now, from the above construction, the insides of these sockets (to produce the customary-shaped cigar) must converge from their widest distance apart to a small opening at one end very abruptly, and as the grain runs with the length of the socket is liable to split off at this point. To remedy this defect I remove the wood of the socket at this point and introduce a plug or piece of wood in a vertical position.

Figure 1 is a perspective view of a cigar-half of a cigar-mold embodying my invention. Fig. 2 is a sectional elevation of the mold. Fig. 3 is a transverse section inclosing a cigar. Fig. 4 is a plan of the small end of one of the sockets of the lower mold. Fig. 5 is a perspective view of one of the cups belonging to the upper half of the mold.

A A' are retaining-boards for upper and lower molds, respectively, and they have partial saw-cuts *a a' a'' a'''* to prevent warping. B is the upper half of the mold, consisting of separate cups B secured to the retaining-board A with an adhesive substance; and B' is the lower half of the mold, consisting of one board formed into sockets *b*, as shown, and secured to the board A' in a similar manner. *b'* are upright pieces of hard or soft wood,

with the grain vertical, secured in the mold B' at the small ends of the grooves or sockets *b*, in place of wood removed therefrom, by means of auger, bitt, or otherwise, to counteract any tendency at this point to split out, from the fact of the grain running in the general direction of the sockets *b*. *c c'* are guide-pegs, to guide the halves of the molds together, and retain them there while the cigars are being pressed. The cups of the upper molds B being hard wood are made to fit inside the sockets *b*, (in such a manner that the inclosed space will be circular in cross-section, thus pressing a round cigar,) and have formed at the top of them shoulders or flanges 1 and 2, which answer the following useful purposes, viz: When securing them to the retaining-board A they are laid each one in its fellow-socket *b* of the lower mold, where they remain until the board A is suitably glued or gummed, and pressed against them to make them adhere, thus assuring a perfect fit (when dry) with great ease. It also prevents the soft-wood board A from coming in contact with the harder wood of the mold B', thus preventing indentation of board A when under pressure, and consequent diminution of size of inclosed cigar from the too-far inwardly-pressed cup *b*. Were it not for the shoulders 1 and 2, by being thus inwardly pressed too far, the cup B would also spoil the socket *b*. The flanges also increase the adhesive surface against the board A, and furnish a fastening as strong as nailing, and much easier to remove in case it is necessary to replace the cups all or part with new ones, which may be done by the owner himself when provided with duplicates.

I claim—

In combination with sockets *b*, the upright pieces *b'*, constructed and operating substantially in the manner and for the purpose specified.

In testimony of which invention I hereunto set my hand.

FREDRICK C. MILLER.

Witnesses:

EDGAR J. GROSS,

FRED. A. JOHNSON.