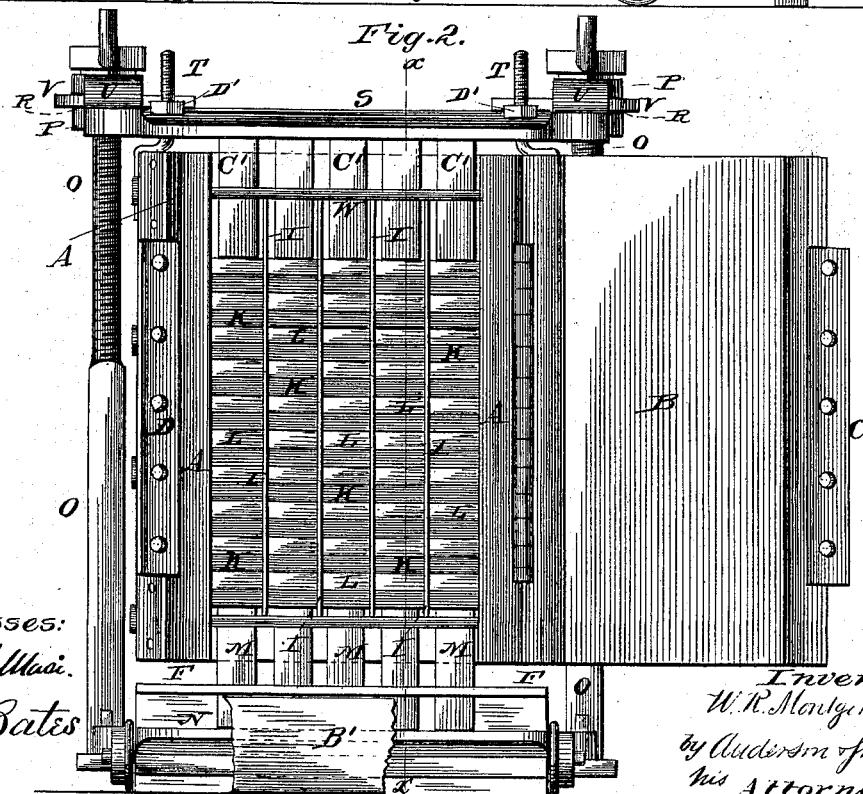
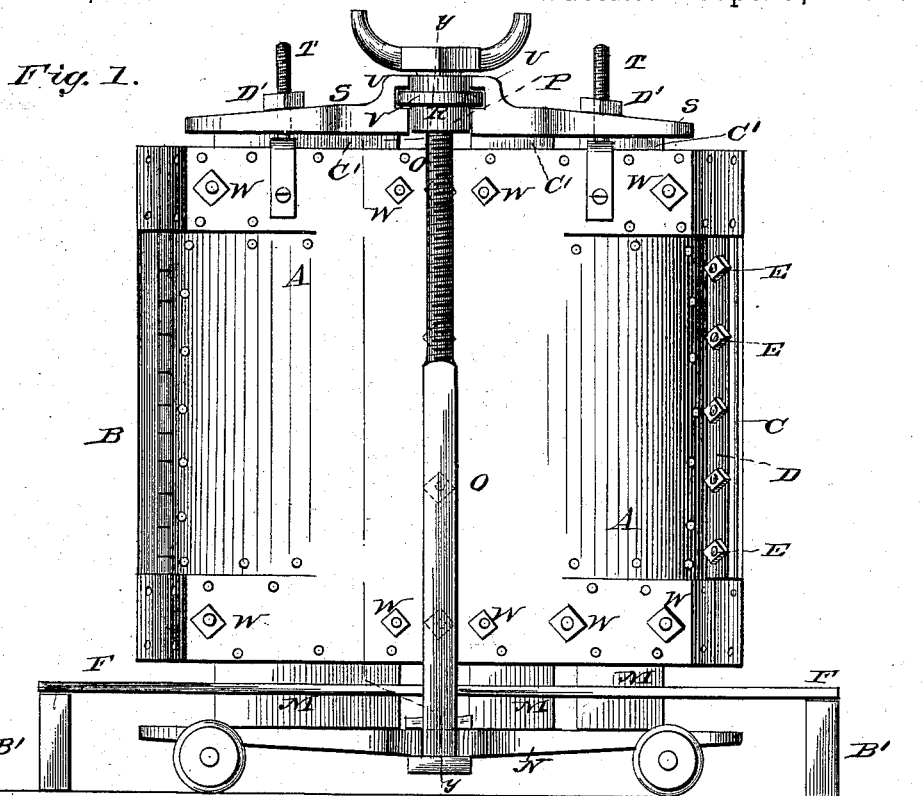


W. R. MONTGOMERY.

APPARATUS FOR MOLDING, MARKING, AND FINISHING TOBACCO.

No. 263,940.

Patented Sept. 5, 1882.



Witnesses:  
*Philip C. Munn.*  
*E. H. Bates*

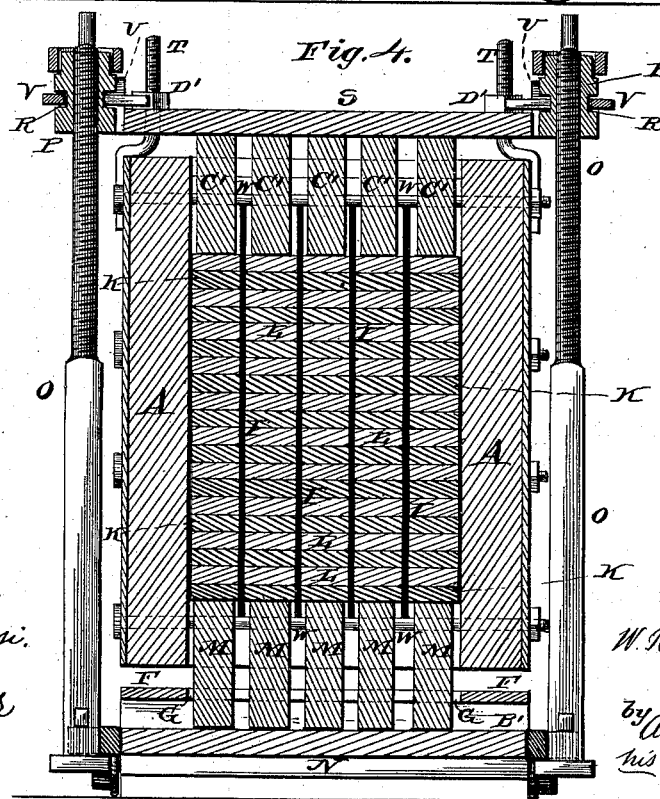
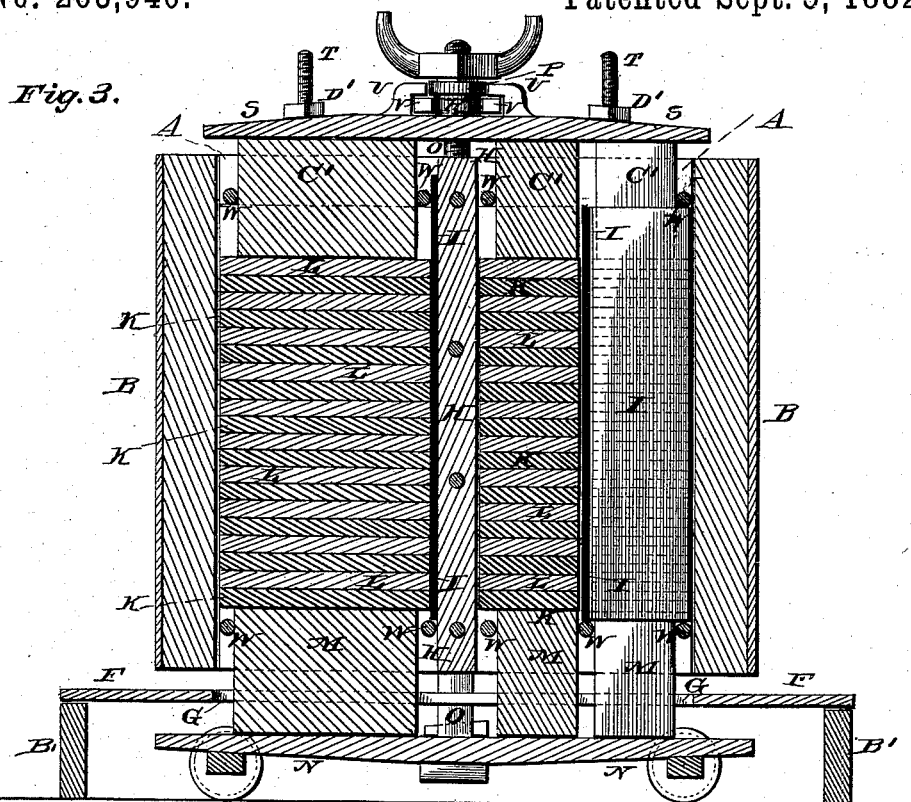
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Fig. 5.

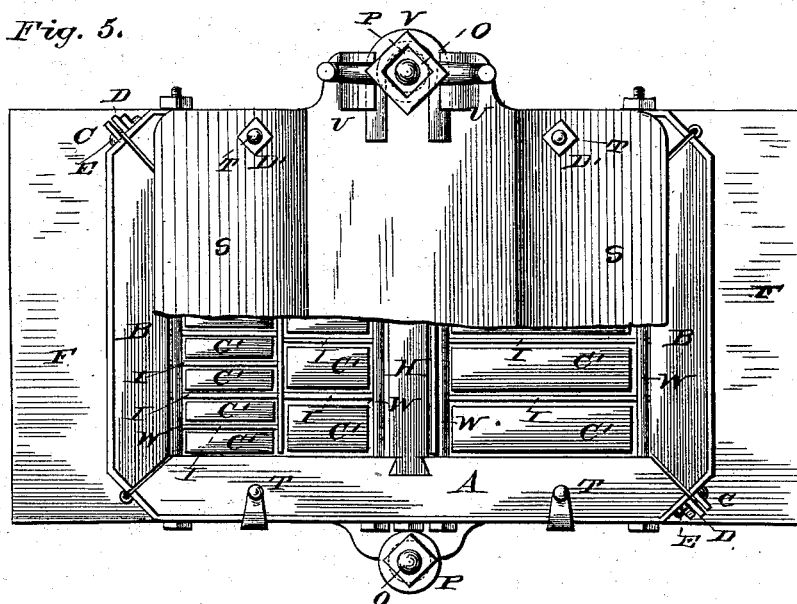


Fig. 6.

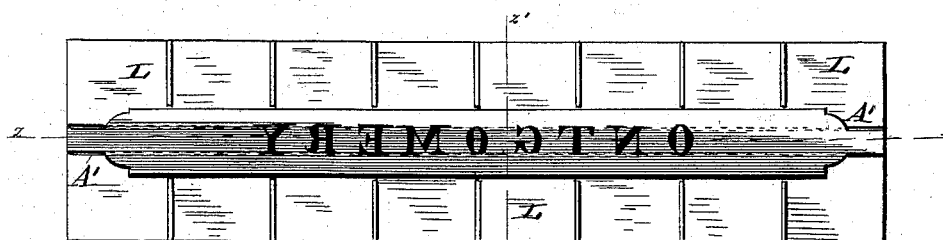


Fig. 7.

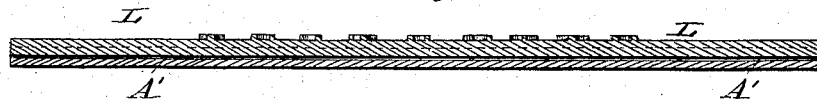


Fig. 8.



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# UNITED STATES PATENT OFFICE.

WILLIAM R. MONTGOMERY, OF LOUISVILLE, KENTUCKY.

## APPARATUS FOR MOLDING, MARKING, AND FINISHING TOBACCO.

SPECIFICATION forming part of Letters Patent No. 263,940, dated September 5, 1882.

Application filed June 17, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, WM. R. MONTGOMERY, a citizen of the United States; and a resident of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and valuable Improvement in Apparatus for Molding, Marking, and Finishing Tobacco; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side view of my device. Fig. 2 is an end view of the same. Fig. 3 is a vertical sectional view. Fig. 4 is a cross-section of the same. Fig. 5 is a plan view with top plate broken away, and Fig. 6 is a plan view of the marking-plate; Fig. 7, a longitudinal section on line  $z z$ ; and Fig. 8 is a cross-sectional view on line  $z' z'$ , Fig. 6, of the same.

This invention has relation to apparatus for molding, marking, and finishing plug-tobacco; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and pointed out in the claims appended.

In the accompanying drawings, the letter A designates the box, which is constructed of any material of suitable strength to stand the pressure to which it is to be subjected while pressing the tobacco. In the present instance it is represented as constructed of wood sheathed with metal, the ends being hinged at one side to the sides, as indicated by the letter B, and having perforated flanges C at the opposite side, which are adapted to be secured to similar flanges, D, formed on the sides, by means of screw-bolts and nuts E, or others suitable fastening devices. The box is open at the top and bottom, and rests upon a bed, F, which has a rectangular opening, G, for the purpose hereinafter described, the said opening corresponding in size to the interior of the box.

The letter H indicates a vertical partition, which divides the box into two parts, and I a series of vertical partitions dividing the box into cells of various sizes, into which the tobacco is packed in layers, as indicated by the letter K, marking-plates L being inter-

posed between the layers, as indicated. The layers rest upon the tops of a series of plungers or blocks, M, which extend through the opening in the base or bed plate, and rest upon a plate, N, below, the said plate being provided with rollers or wheels for the purpose of permitting the apparatus to be moved conveniently. The said plate, on opposite sides, is provided with upright metallic rods O, screw-threaded at their upper ends, and provided with nuts P. These nuts are each provided with a peripheral groove, R, for the purpose hereinafter explained.

The letter S indicates a plate similar in shape to the plate N. This is adapted to fit over the top of the box, and is perforated near its corners, so as to overset the screw-threaded rods T, secured to the upper part of the box or retainer. The said plate S is provided with lugs U on opposite sides, which are grooved horizontally on their inner sides for the reception of the keys V, which are adapted to extend through the peripheral grooves in the nuts, and serve, in connection therewith, as a means of fastening the said plate S to the top of the apparatus. The sides of the box are held together by means of transverse stays W, which also serve to support and hold the vertical partitions in place.

The marking-plates are constructed with transverse or longitudinal dovetailed grooves A' on their faces for the reception of movable types or designs, which may be in intaglio or relief, and which may be so arranged as to produce an ornament, trade-mark, name, or other device upon the face of the plug.

The operation of my invention is as follows: The base or bed of the apparatus is set upon the foot-blocks B', and the partitions are properly arranged in the box, the lower plungers extending up into the lower portions of the cells. The tobacco is then placed in the cells in layers with the interposed marking-plates, as before mentioned, after which the ends are bolted to the sides of the box, the upper plungers C' placed in the cells, and the top plate secured by means of the nuts D', the nuts P, and keys V, as indicated. The apparatus is then run between the plunger and top plate of a hydraulic ram or press, the keys removed from the lugs and peripherally-grooved nuts, and the ram or press

is put in operation, forcing the upper and lower plates of the apparatus together, and molding, marking, and finishing the plugs. The marking-plate, besides the movable type or designs, may be provided at equidistant points on its face with transverse ribs to indent the tobacco and form division-lines, so as to facilitate its separation into smaller plugs. In case the plugs are to be left unmarked, plain plates may be used. After being properly compressed the top plate is secured by means of the peripherally-grooved nuts and the keys V, and the box or retainer is removed from the press, holding the tobacco in its compressed condition until properly finished.

By my invention it will be perceived that the tobacco is molded, marked, and finished in the same apparatus, and the usual handling attendant upon the use of separate molds and finishers is obviated, and the risk of injury from sweating during removal from the molds to the finisher is overcome. Instead of the metallic plates, wooden blocks may be employed for marking. The ordinary boxes may be employed and divided into cells, as before mentioned.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the box provided with vertical partitions dividing it into cells for the reception of the tobacco and interposed plates, of the upper and lower plungers and the

connected upper and lower plates, the whole adapted to be placed in a hydraulic press or ram and subjected to pressure, and when fully compressed to be secured as described in order to finish the plugs, substantially as specified.

2. In combination with the box, the hinged ends, and the sides provided with perforated flanges, and screw bolts and nuts whereby they may be securely fastened together, substantially as specified.

3. In combination with the box and the vertical partitions, the transverse stays adapted to support and hold the partitions, substantially as set forth.

4. In combination with the box and the upper and lower plates and detachable connections, the vertical partitions and transverse rods and the upper and lower plungers, all arranged to operate substantially in the manner specified.

5. The method herein described of molding, marking, and finishing tobacco by subjecting it to pressure in layers with interposed marking-plates, substantially as set forth, and retaining the pressure until finished, as specified.

In testimony that I claim the foregoing I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM RILEY MONTGOMERY.

Witnesses:

ALVAN McLEOD,  
WM. H. MCGLOSSON.