

S. HARTMAN.
CIGAR WRAPPER CUTTER AND ROLLING BOARD.
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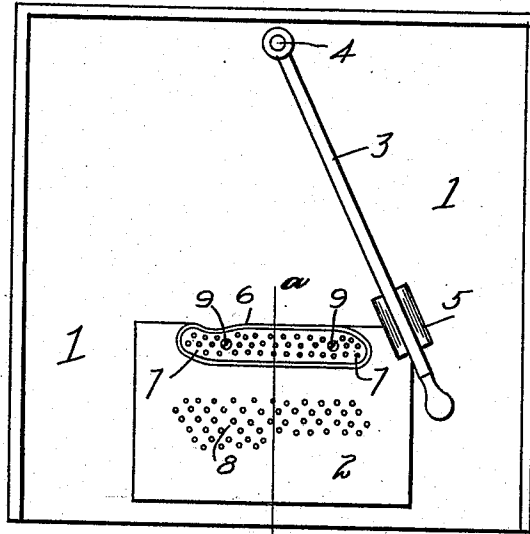


Fig. 1.

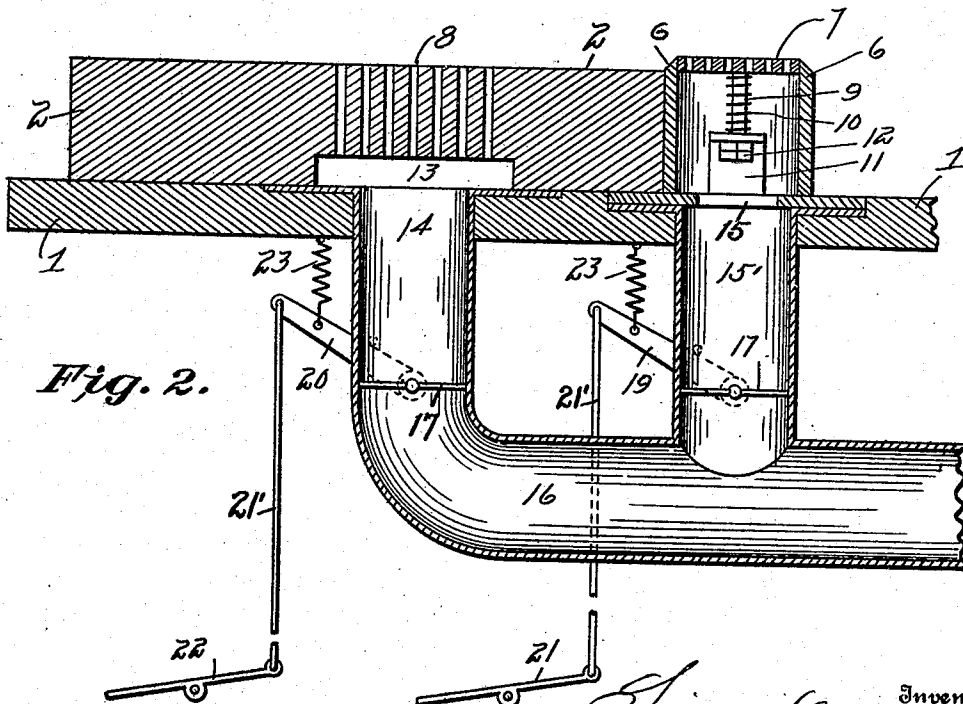


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

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CIGAR WRAPPER CUTTER AND ROLLING BOARD.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SIMON HARTMAN, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Cigar Wrapper Cutters and Rolling Boards; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in cigar-making machines, and more specifically to a cigar-wrapper and rolling board.

The object of the invention is to provide a wrapper cutter and rolling board combined.

The cutting die is set in a wood rolling board adjacent to the perforated portion of the rolling board over which the wrapper is rolled. The advantages attending the use of such rolling board are several, among which is a reduction of the amount of manual labor required of the operators, who are to a great extent girls. This is accomplished by obviating the necessity of the operator carrying an unnecessary weight while rolling the cigars, such for example, as elevating a metal rolling board after each operation of cutting a wrapper, and other labor incidental to the use of cutting dies in metal rolling boards. And a further advantage of the present invention is that the operator is enabled to work with a better knife where the knife is mounted in a wood rolling board; that is to say, the knife is not dulled so quickly on a wood board as in a metal plate which has a strong tendency to "crystal" and harden the surface of the zinc, thereby making it difficult for the operator to complete her work.

The essential features of the invention are the wood rolling board upon which the wrapper is cut and rolled; the perforations in the rolling board over which the wrapper is placed for rolling, and the perforated plate of the cutting die lie above suction chambers which communicate with a main air pipe by separate pipes leading therefrom, the separate pipes having each a valve connected with a separate treadle which is controlled by the operator, all as will hereinafter be more fully described.

Preceding a detailed description of the invention, reference is made to the accompanying drawings, of which—

Figure 1, is a top plan view of the table with the wood rolling board with the wrapper cutter set therein. Fig. 2, is an enlarged sectional view on the line *a a* of Fig. 1.

In a detail description of the invention, similar reference characters indicate corresponding parts.

The wood rolling board 2 is suitably mounted upon a work-table 1 and is provided with a knife 6 which conforms to the shape of the wrapper. Within the space inclosed by said knife is a movable die 7 having perforations through which suction created below the die holds the leaf in suitable position during the operation of cutting the wrapper. The knife 6 stands a suitable distance above the surface of the rolling board. The die 7 is supported above suitable guides or pins 9 controlled by springs 10 passing through brackets 11 which extend from the rolling board. The pins 9 pass loosely through said brackets and receive on their lower ends nuts 12 by means of which said pins are maintained in their supports and may be adjusted in order to obtain a proper relative position between the movable die plate 7 and the knife 6. The table 1 beneath the die is provided with an opening 15 which is approximately the length of the space or chamber below the die, and by means of which the space below the die is converted into a suction chamber by air passing thereto through a by-pipe 15' from a main air pipe 16. The pipe 15' has a valve 17 therein which is operated through a lever 19 connected to a foot treadle 21 by rod 21'. The lever 19 is normally held up by a spring 23 connected thereto and to the bottom of the table 1, so that the valve 17 normally closes the passage from the main air pipe 16 to the suction chamber below the die 7. A cutting roller 5 mounted upon a hand-operating lever 3 pivoted at 4 to the upper side of the table, is movable over the die 7 to cut the wrapper. The leaf is first placed upon the die after which the foot treadle 21 is operated to admit air to create suction below the die to hold the leaf in position, after which the foot treadle is released to permit of the removal of the cut wrapper.

The rolling board 2 adjacent to the cutter is provided with perforations 8 which communicate with a chamber 13 provided in the

lower side of said rolling board. Communicating with said chamber is a by-pipe 14 which consists of the up-turned end of the main air duct or pipe 16. This by-pipe 14 is also controlled by a valve 17 which is operated through a lever 20, foot treadle 22, and connecting rod 21'. Like the lever 19, the lever 20 is normally held in position with the valve 17 closing the passage between the main pipe 16 and the suction chamber 13.

From the foregoing description, it will be seen that the wooden rolling board and the die are conveniently arranged in juxtaposition, and thus admit of a convenient and ready handling of the wrapper from the cutter to the rolling board, thereby greatly facilitating the work of the operator. The convenient arrangement of the suction chambers and passages, enables the operator to alternately manipulate the valves with ease, and the result is—a single operator may roll a greater number of cigars within a given period of time.

I claim as my invention:

In a cigar-making machine, a wood rolling board having a perforated surface above a suction chamber and upon which the wrappers are rolled, a wrapper cutter inclosing a movable perforated die set in said rolling board adjacent to and parallel with the perforated rolling surface and above a suction chamber, a suction pipe leading to each of said suction chambers, a main air pipe with which said suction pipes communicate, a damper pivoted across each of said suction pipes, and a foot treadle connected to each of said dampers and lying in proximity to each other, as herein shown and described, and whereby a single operator may control the suction in both of said chambers.

In testimony whereof I affix my signature, in presence of two witnesses.

SIMON HARTMAN.

Witnesses:

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