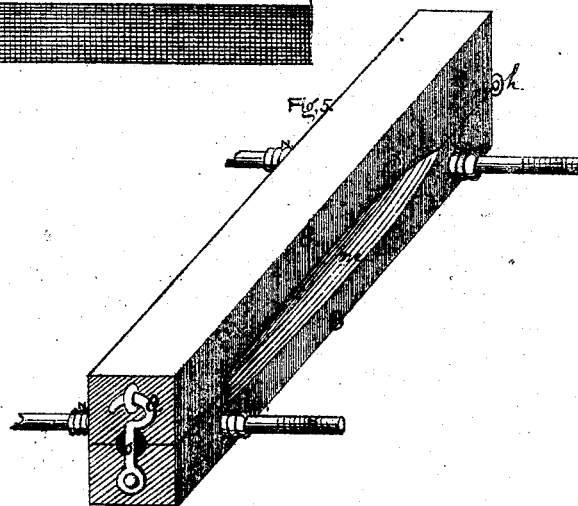
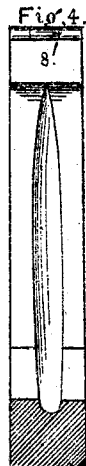
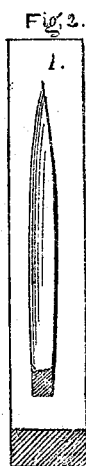
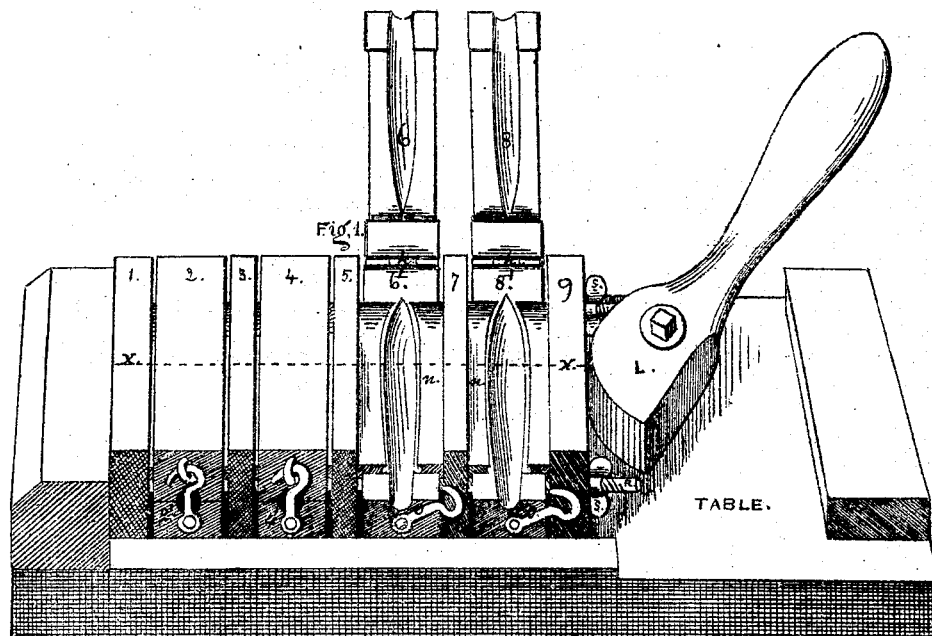


S. L. COLE.  
Cigar Machines.

No. 116,026.

Patented June 20, 1871.



WITNESSES  
James P. McLean  
Anne S. McLean

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Inventor

# UNITED STATES PATENT OFFICE.

SETH L. COLE, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN CIGAR-MACHINES.

Specification forming part of Letters Patent No. 116,026, dated June 20, 1871.

### *To all whom it may concern:*

Be it known that I, SETH L. COLE, of the city of Brooklyn, in the county of Kings and State of New York, have invented certain novel and useful Improvements in Machinery for forming the entire body as well as the conical tip or apex of a Cigar preparatory to wrapping the same by machinery or otherwise; and I hereby declare the nature of my said improved invention, and in what manner the same is to be constructed, by the following specification with the accompanying drawing, which is lettered to correspond with and form a part of the same.

In order that the public may fully understand the nature of my said improvements, and those who are skilled in the mechanic arts be enabled to construct and operate the same, I will describe them, as follows, to wit:

Figure 1 is a perspective drawing of my machine, which consists of a series of dies, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 2', 4', 6', and 8', made of wood, metal, or composition, to correspond with and to form the longitudinal section or quarter of a cigar by means of the horizontal pressure produced by the lever L, which is secured to and forms a part of the table or work-bench. The cigars are held under pressure by the application of thumb-screws S S upon the guide-rods R R, which hold the several sections of the molding-machine on a horizontal plane, and the longitudinal dies in a proper position to fit into each other, so as to produce the desired form of the body and conical point of a cigar ready for wrapping without any further finishing, or forming of the point or tip thereof preparatory to wrapping the same. Fig. 2 is a perspective view of a single die, 1, which fits into the slot or opening formed by closing the bed and top section of the mold 2 and 2'. Fig. 3 is a perspective view of one of the dividing-plates, 7, provided with a horizontal section of dies, *n*, on each side thereof, which fits into the corresponding openings in sections 6 6' and 8 8', thereby completing the form of the cigars. Fig. 4 is the bottom section 8', Fig. 1. Fig. 5 is a perspective drawing of the top and bottom dies 8 8', showing the hinge *h* and hook or spring-catch O, which secures and holds the same in position during the process of pressing the cigar into shape.

*m* is the opening which receives the horizon-

tal dies or tongues *n n* to complete the shape of the cigar. R R are horizontal guide-rods, which pass through the lower part of the sections 1, 2', 3, 4', 5, 6', 7, 8', and 9. These rods are provided with sections of spiral or other springs N N, placed between the dies so as to force apart the horizontal sections of the molds in order to fill the same, or to remove the cigar when perfectly formed to receive the wrapper.

I am aware that a patent for pressing the bodies of cigars by the application of cases and alternate slots constructed in three distinct parts, and operating horizontally by means of a flexible strap uniting the lower sections of the mold or cases, while the top of all the cases is formed in one piece for the purpose of pressing the body only of the whole number of cigars into shape by means of detached clamping-irons; but by my improved machine I am enabled to form the conical end or tip at the same time that I produce the perfect contour of the body of a cigar, by means of a series of independent molds or dies, so constructed that either one of the cigars may be removed from the mold without moving the upper or top of the mold from the other cases; and by the arrangement and use of four or more sectional dies to form each cigar I am enabled to produce a more uniform, compact, and finished surface, without ridges, in a workmanlike manner, ready for wrapping, the whole number of dies being operated by the combination of the guide-rods R R, spiral or other springs N N, hooks or spring-catches O O, hinges *h h*, and thumb-screws S S, which may be arranged upon a rod passing through the middle of the press, as shown by a dotted line, *x x*, Fig. 1.

Finally, the novelty of my improved invention consists in the construction of independent presses for forming the conical point or apex of a cigar, as well as forming the entire body thereof without projecting ridges, by means of four or more dies fashioned to correspond with a longitudinal quarter or other section of a cigar, which dies or molds are arranged upon metallic rods with screw-threads and nuts, and with sections of spiral or other springs arranged between the molds for the purpose of opening the same when set free by the action of the nut or nuts upon the guide-rods or rod R. Therefore,

What I claim as my improved invention, and

what I wish to protect by Letters Patent of the United States, is—

The machine herein described, consisting of a mold or series of molds, each made in parts 1 2 2' 3 4 4' 5 6 6', &c., so arranged that each mold is independent of the other, the whole being operated by means of a rod or rods, R R, springs N N, screw-nuts S S, spring-catches or hooks O O, and hinges *h h*, all constructed, ar-

ranged, and operating in the manner and for the purpose of forming the tip as well as the body of a cigar.

In testimony whereof I hereunto subscribe my name in the presence of two witnesses.

SETH L. COLE.

Witnesses:

JAMES P. MCLEAN,

ANNE S. MCLEAN.