

S. L. COLE.
FORMING CIGAR TIPS.

No. 108,331.

Patented Oct. 18, 1870.

Fig: 1.

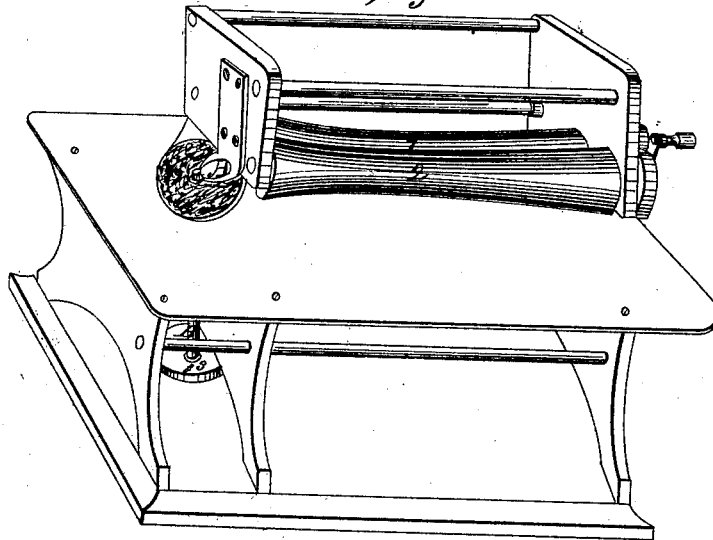
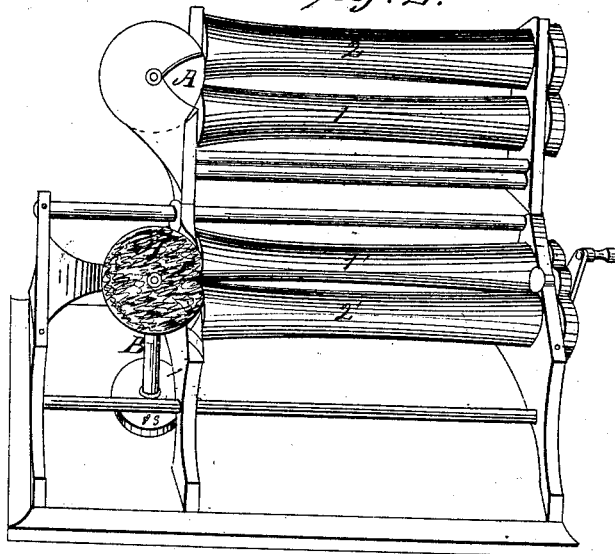


Fig: 2.



Witnesses:

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SETH L. COLE, OF BROOKLYN, NEW YORK.

Letters Patent No. 108,331, dated October 18, 1870; antedated October 15, 1870.

IMPROVEMENT IN FORMING CIGAR-TIPS.

The Schedule referred to in these Letters Patent and making part of the same.

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 Device for Forming the Conical or Tip-end of a Cigar by Machinery; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, which is lettered to correspond with and form a part of the specification.

In order that the public may fully understand the nature of my said invention, and to enable those who are skilled in the art of cigar-making to construct and operate the same, I will describe it as follows, to wit:

Figure 1 is a perspective drawing of a cigar-machine having my invention attached thereto, which consists of two flexible circular pieces of woven fabric, felt, leather, India rubber, (or a composition thereof,) provided with holes through the center thereof to receive the upper end of the axis or standard B, upon which these flexible diaphragms A and A' revolve by the rotary motion of the cigar, or by a separate gearing, arranged to operate the flexible diaphragms A and A', whether of cloth, leather, felt, or India rubber, which may be vertically, obliquely, or horizontally arranged to receive and form the tip of the cigar, while the body thereof is held between the forming-rollers 1 2 and 1' 2', while in motion, for the purpose of wrapping the same, as well as molding the cigar into shape.

Figure 2 is a perspective view of the machine, having the table T removed in order to more clearly illustrate the lower flexible cloth diaphragm A, the upper rollers 1 2 having been thrown back ready to place a cigar in the machine preparatory to shaping and wrapping the cigar into a perfect form, ready for smoking.

The standard B is secured to an adjustable base, c, which is operated by means of slots and set-screws s s, for the ostensible purpose of regulating the width and direction of the lap of the wrapper as it approximates the tip or conical point of the cigar during the process of winding the same.

The superiority of my flexible diaphragms over the many metallic devices now in use is by the use of cloth or either of the above fabrics, or a combination thereof. I am enabled to preserve the wrapper and to regulate the lap thereof to a final completion of the tip in such a manner that the cigar cannot be wound too tightly, so as to prevent its smoking freely, which, I believe, is not the case with either of the metallic devices employed for such purposes, as all of which have a tendency to crack or otherwise destroy the wrapper.

Therefore, the novelty of the improvement consists in flexible diaphragms A and A', made of either woven cloth, felt, leather, India rubber, (or of a composition thereof,) arranged upon an adjustable axis in such a manner that the required lap and direction of the spiral wrapper is produced in a uniform and workmanlike manner; therefore

What I claim as my improvement, and what I wish to secure by Letters Patent of the United States, is—

The flexible diaphragms A and A', standard or axis B, with adjustable set-screws and slots s s, all constructed, arranged, and operating with the other parts of a cigar-machine, in the manner and for the purpose set forth.

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

S. L. COLE.

Witnesses:

JAMES P. McLEAN,
JOHN R. McLEAN.