(No Model.)

C. W. BOMAN.

CIGAR WRAPPING AND ROLLING MACHINE.

No. 405,073. Patented June 11, 1889.

Fig. 1.

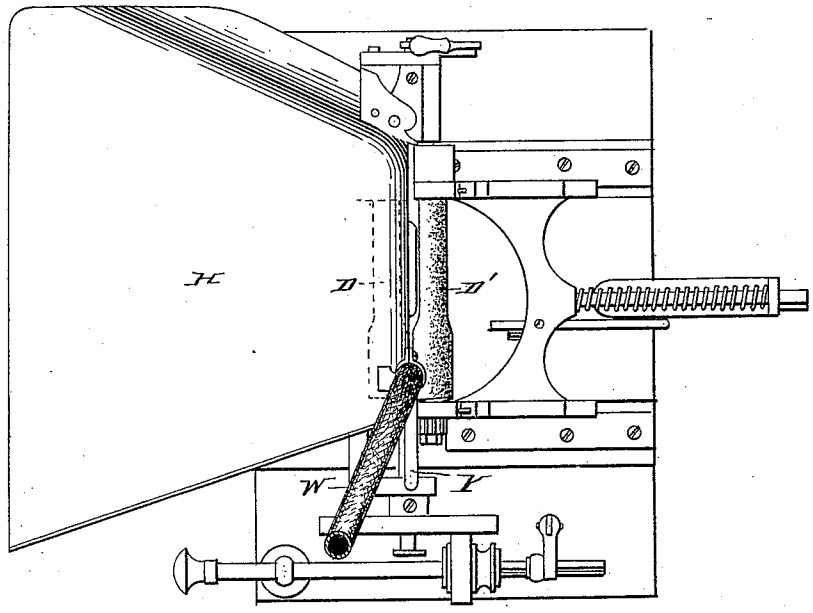
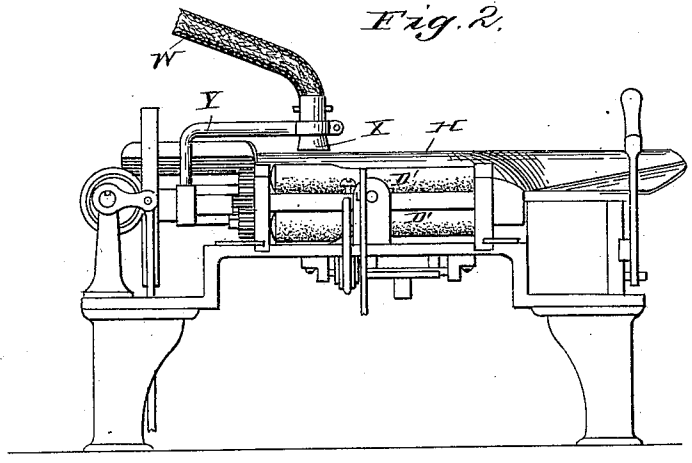


Fig. 2.



Witnesses:
E. D. Smith
Earl A. Dick

Inventor:—
Claes W. Boman
by Marcellus Bailey
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UNITED STATES PATENT OFFICE.

CLAES WM. BOMAN, OF NEW YORK, N. Y.

CIGAR WRAPPING AND ROLLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 405,073, dated June 11, 1889.

Application filed February 28, 1889. Serial No. 301,523. (No model.)

To all whom it may concern:

Be it known that I, CLAES WM. BOMAN, of the city, county, and State of New York, have invented a new and useful Improvement in Cigar Wrapping and Rolling Machines, of which the following is a specification.

My invention has relation to machines for applying the wrapper to the "filler" of a cigar; and its object is to improve and simplify the means for tucking the front end of the wrapper into or between the cigar-rolling appliances. These appliances are sometimes belts, but more generally power-driven yielding rolls. Machines of this last type are illustrated in several Letters Patent heretofore granted to me—*e. g.*, No. 388,174, of August 21, 1888, and No. 396,263, of January 15, 1889.

Heretofore, so far as I am informed, a mechanical tucking-blade operated by hand has been used to tuck the front end of the wrapper into the rolls. The trouble with this device is that, besides being inconvenient to use, it is very liable to do imperfect work and to injure and cut the cigar-body or filler of the cigar as well as the wrapper. To remedy this trouble, I dispense entirely with a mechanical tucker or tucker-blade, and I use in lieu thereof an air-blast, which by a suitable nozzle is discharged directly upon the spot where the tucker-blade if used would operate.

By passing the end of the wrapper directly underneath the nozzle the blast will blow the end of the wrapper downward or inward upon the cigar bunch or filler and into a position where the roller will take it instantly. This nozzle can be movable, or it may be fixed in position and the air can be supplied thereto from an air-pump, blower, or other suitable blast-producing appliance. The blast can be regulated at will, if desired, by a cock on the supply pipe or nozzle, or in other suitable known ways.

In the drawings I have represented my improvement as applied to a machine of the kind illustrated in my Letters Patent No. 396,263. Figure 1 is a plan, and Fig. 2 is a side elevation, of so much of the machine needed for the purpose of explaining the improvement.

In the drawings, D D′ are the rotary power-driven cigar wrapping or receiving rolls, shaped so that they inclose a mold-space of a shape and size closely approximating that to be imparted to the finished cigar.

H is the table of the machine, overhanging at its inner end the top rolls between which the wrapper enters.

A further description of the general organization of the machine is unnecessary for the purposes of this specification. It is sufficient to say that the machine is the same as that which is fully illustrated and described in my aforesaid Letters Patent No. 396,263, and that the rolls D D′ are arranged and operate in the same way as do the like lettered rolls in said Letters Patent.

My improvement resides in the blast conduit or nozzle X, which is arranged over the rolls at the same point where the tucking-blade is located in my aforesaid Letters Patent, and is supported in position by the same stand Y, which formerly supported the tucking-blade.

The nozzle X, by a pipe or trunk W, is connected to a blower, air-pump, or other air-forcing appliance, which I have not deemed it necessary to show. Its discharge-mouth is over the point where the front end of the wrapper is to be tucked down between the rolls, and is so shaped as to direct the blast upon that end and thus to force it down upon the filler and into a position where it will at once be taken hold of by the rolls. The nozzle can be supported and arranged in various ways. It may be, if desired, upon a flexible pipe, which will permit it to be moved away from over the rolls after it has done its work.

By this improvement I am enabled not only to do more perfect work, but also to perform it more expeditiously and surely than is practicable with a mechanical tucking-blade.

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

1. The combination, with the cigar wrapping or receiving rolls, of a blast-nozzle placed opposite the point where the front end of the wrapper enters, to discharge air at that point

upon said portion of the wrapper, substantially as and for the purposes hereinbefore set forth.

2. The combination of the cigar wrapping or receiving rolls, the table over which the wrapper passes to said rolls, and the blast-nozzle for tucking the front end of the wrapper between the rolls, substantially as and for the purposes hereinbefore set forth.

In testimony whereof I have hereunto set my hand this 25th day of February, 1889.

CLAES WM. BOMAN.

Witnesses:
SAMUEL KRAUS,
ABRAHAM FRANK.