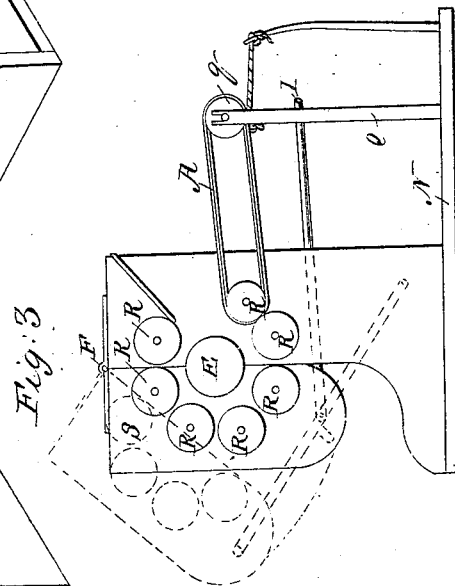
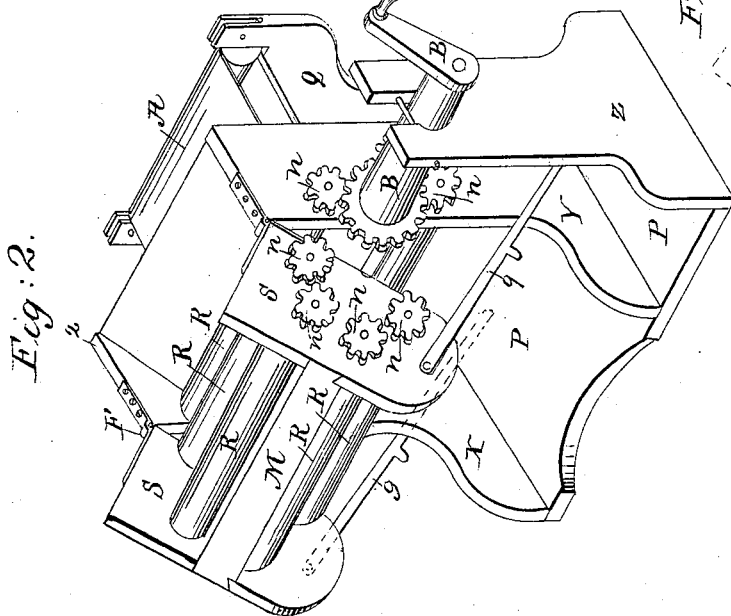
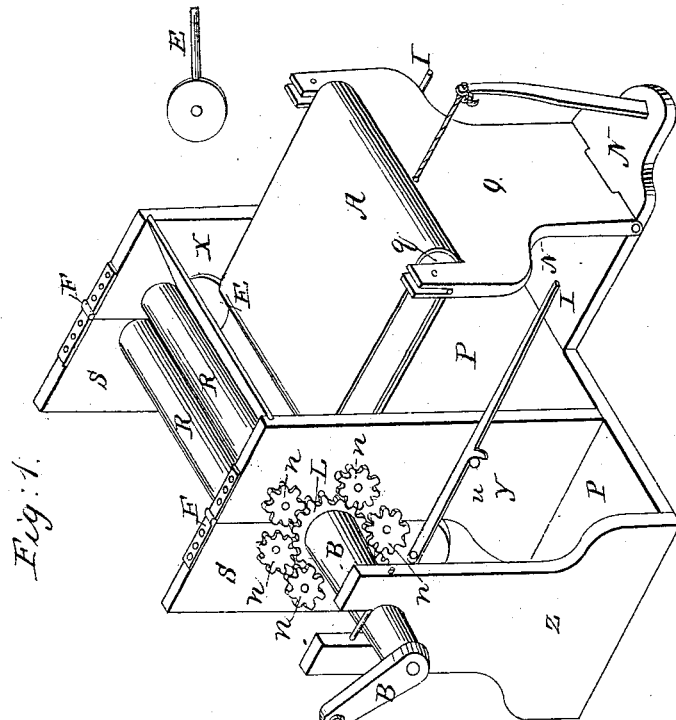


W. P. MARSTON.

Cigar Machine.

No. 4,485.

Patented April 25, 1846.



Inventor.

W. P. Marston.

Per

Geo. Thomas
Patent Agent

UNITED STATES PATENT OFFICE.

WM. P. MARSTON, OF DANVILLE, VIRGINIA.

IMPROVEMENT IN MACHINERY FOR ROLLING TOBACCO.

Specification forming part of Letters Patent No. 4,485, dated April 25, 1846.

To all whom it may concern:

Be it known that I, WILLIAM P. MARSTON, of Danville, in the county of Pittsylvania and State of Virginia, have invented a new and useful Machine for Rolling Tobacco; and I hereby declare the following to be 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, in which—

Figures 1 and 2 are perspective views, and Fig. 3 a transverse section.

The machine is constructed by fitting three upright pieces of timber or metal, X, Y, and Z, into a platform, P, of the same material. The outer and middle uprights, X and Y, have each a piece of timber, S S, (which pieces S are connected by a brace, M,) affixed to them by a hinge at F F, which is screwed over the top of the uprights X and Y and pieces S S, and thus enables the pieces to be raised up to open the machine, or lowered down to close it, at pleasure. Thus I have constructed a folding frame. At any given distance above the platform P, and through the folding frame thus constructed, the axes of a series of rollers are made to pass in a circle. To the axis of each roller, (and on that side of the folding frame toward the third upright, Z,) is fastened a cog or friction wheel, *n*. These wheels are so placed in reference to each other that they do not touch, and at the same time each comes in contact with and is turned by a cog or friction wheel, L, permanently affixed to a crank, B. The axis of this crank passes through the center of the circle formed by the cog-wheels *n n* and into the upright Y of the folding frame. The other end of the crank is supported by the upright Z, the top of which is formed to receive it, and this, with the upright Y, supports the crank.

To the platform P is attached a piece of timber, N, which is also a part of the platform. Into this piece N is fitted an upright, Q, the upper part of which is formed to receive a roller, *g*, and so as to allow it freely to revolve upon its axis. The upright Q may be braced

in any convenient way. Around the roller *g* and one of the rollers R of the folding frame is an endless cloth, A, in a horizontal position. This cloth, by passing around the roller R, is made to pass into and out of the machine, above and below the roller R, by the same motion of the crank that turns the rollers R, and the friction of this cloth upon the roller R turns the roller *g*.

Near the lower end of the pieces S S is screwed a bar, I, which fastens the two parts of the folding frame together, or opens them at will, to allow the tobacco to drop out. A metallic circle, E, of proper diameter, having its center in the center of the circle formed by the rollers R and its axis, projecting through the outer face of X, regulates the length of the roll by being pushed in or pulled out at will.

The machine is worked in the following manner: A person weighs the proper quantity of tobacco and hands it to another, who lays it on the endless cloth A and turns the crank B, by which means the tobacco is made to pass into the folding frame. The handle of E is then adjusted to give the proper length to the roll. The tobacco is now a cylinder in form. Then lay tobacco-leaves diagonally upon the endless cloth. By a motion of the crank B the leaves are carried into the machine, and an envelope is made to the tobacco within. By unfastening the bar I and shoving it outward, the folding frame opens and the tobacco, thus rolled and enveloped, drops out.

What I therefore claim, and desire to secure by Letters Patent, is—

The arrangement of a series of rollers in a circle, in a hinge or folding frame, with proper gearing to give them all a similar motion, in combination with a feeding apparatus, as described, the whole being constructed, combined, and operating substantially as herein set forth.

WM. P. MARSTON.

Witnesses:

THOS. TYSON,
WASHINGTON B. ROSS.