J. W. STONE.

TOBACCO ROLLING MACHINE.

No. 103,255. Patented May 17, 1870.

Fig. 1.

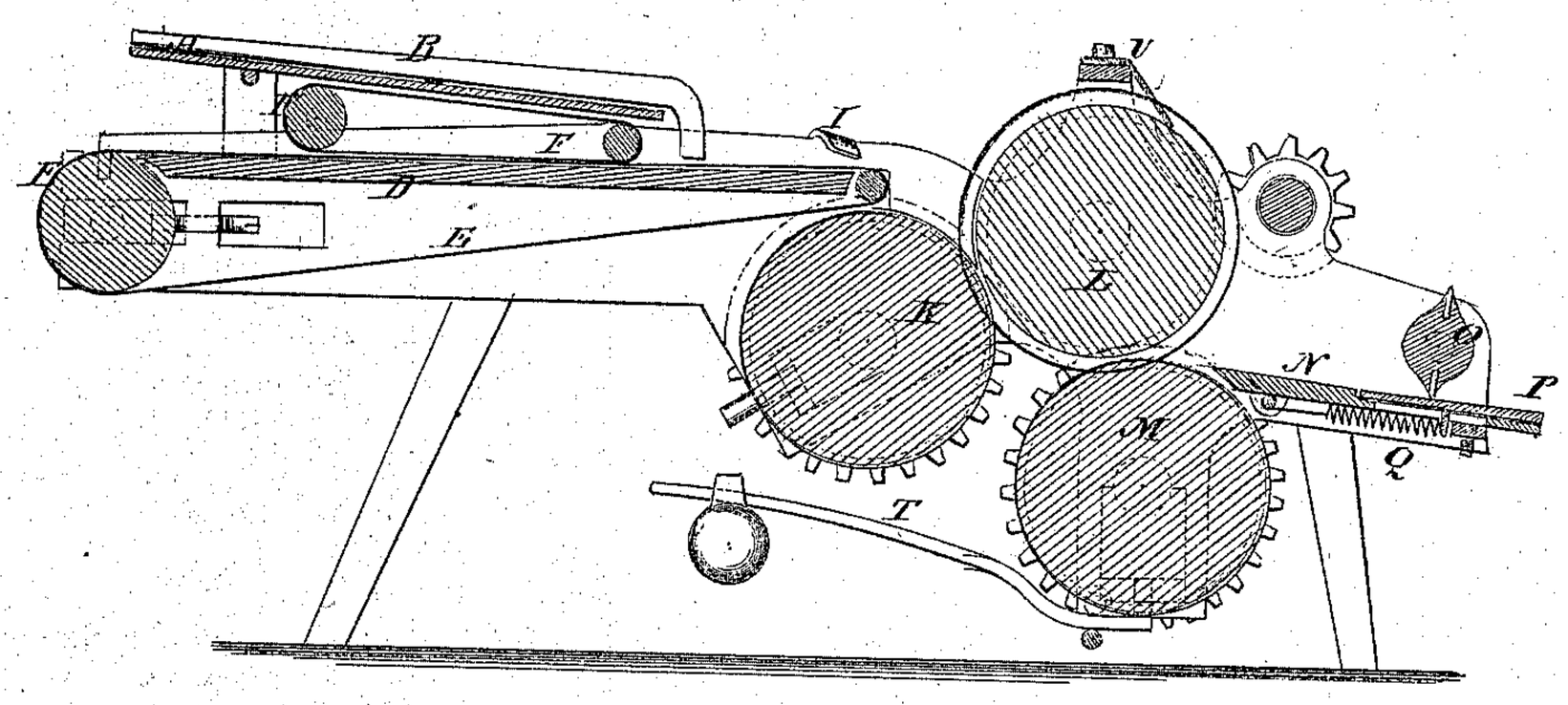
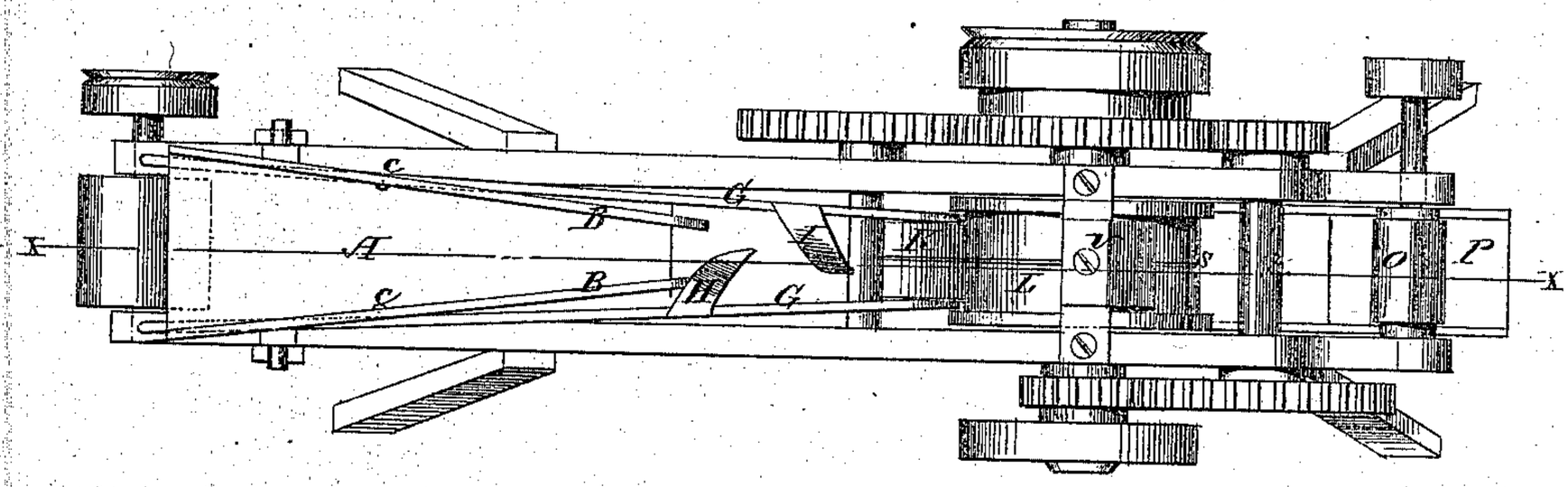


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN W. STONE, OF PARIS, TENNESSEE.

TOBACCO-ROLLING MACHINE.

Specification forming part of Letters Patent No. **103,255**, dated May 17, 1870.

To all whom it may concern:

Be it known that I, JOHN W. STONE, of Paris, in the county of Henry and State of Tennessee, have invented a new and Improved Tobacco-Rolling Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to improvements in machines for rolling tobacco for forming it into plugs; and consists of a combination of a feeding apparatus for the prepared fillings and another for feeding the wrappers, with folding apparatus for folding the wrappers over the fillings and inclosing them previous to the condensing operation of the rollers.

It also consists in the combination, with the rotary cutter for cutting the plugs, of a sliding spring-ratchet bed-plate.

Figure 1 is a horizontal sectional elevation of my improved machine, and Fig. 2 is a plan view of the same.

A represents a feeding-table for the previously-prepared fillings, which are placed on it by the hand. It has adjustable side guides B, mounted on pivots C, or otherwise suitably arranged for widening or narrowing the space between them at the lower delivering end.

D is the feeding-table for the wrappers, on which an endless belt, E, works toward the condensing-rollers, and above this belt is another belt, F, for holding the wrappers while passing along to the rollers. This table is provided with side guides G, which have curved projections H I arranged to fold the ends of the wrappers over the filling after the latter is received on the wrapers, which are laid across the belt E by hand at the receiving end, and carried, by the belt under the mouth of the table A, where the fillings drop upon them.

After receiving the filling, the whole is fed in a continuous stream upon the roller K and carried between it and the roller L, and thence between the latter and the yielding roller M, in a thin narrow strip, upon the delivery and cutting table N, where it passes under the revolving cutter-head O, having two or more blades, and over the sliding plate P, against the upper surface of which the cutters come in contact, and which moves outward with the cutters as long as they are in contact with it, after which it is drawn back by a spring, Q.

The plate P is made of copper or other soft substance which will not injure the edge, and, sliding along with the edges of the cutters as long as they are in contact with it, prevents damage to them, which would occur if they were to scrape along over it.

The rollers are divided at the center on the lines S, and so arranged on their shafts that they may be separated and disks put in for dividing the spaces between the flanges into two grooves for making narrow plugs, the disk of one roller being of less diameter and the other of greater diameter than the rolls, forming a groove in one, into which the projecting rib of the other works.

The finishing-roller M is supported on the end of a weighted bar, T, so as to "give" to the inequalities of the tobacco passing through, and prevent the blackening which will occur if pressed too hard, as would be the case if the roller were unyielding.

U is a scraper, supported on the frame above the roller *t*, for action on it to scrape off the the adhering matter, and detachably connected for removal to substitute others when the spaces between the flanges of the rollers are varied.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the pressing-rollers, of the feeding-table D, feeding-belts E and F for the wrappers, and the feeding-table A for the filling, substantially as specified.

2. The combination, with the wrapper feeding-belt E and the filling feeding-table A, of the folders I, substantially as specified.

3. The sliding spring-retracted bed-plate P, in combination with the rotary cutter O, and arranged in connection with the table N, as shown and described, for the purpose specified.

J. W. STONE.

Witnesses:
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