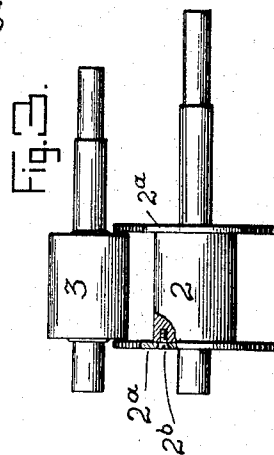
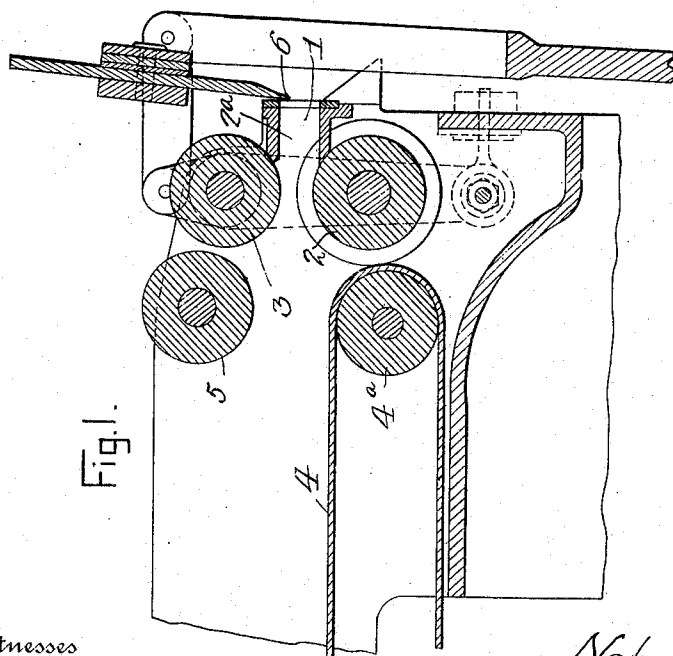
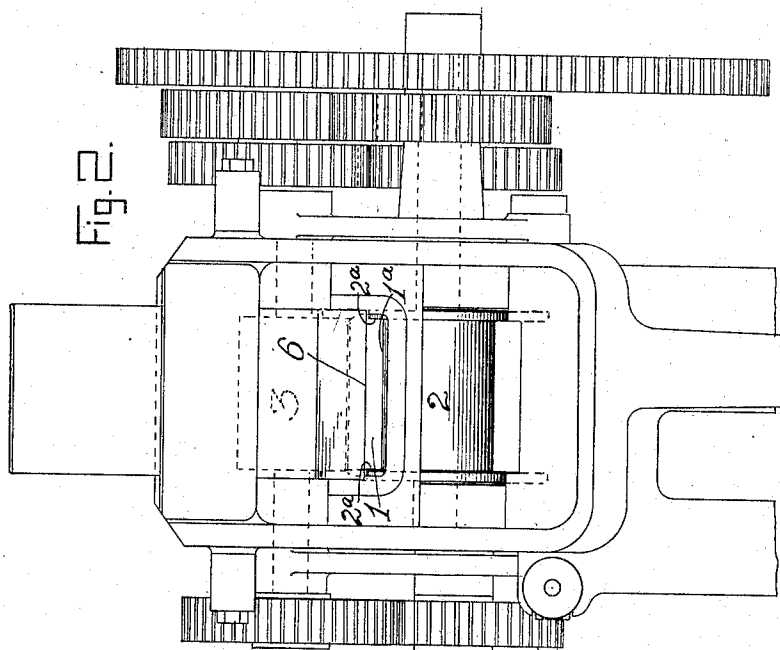


N. DU BRUL.
TOBACCO CUTTING MACHINE.
APPLICATION FILED APR. 25, 1910.

1,015,428.

Patented Jan. 23, 1912.



Witnesses

E. H. Reichenbach.
J. M. Thynkorp

By

Napoleon DuBrul,
Knight Bros

Attorneys.

UNITED STATES PATENT OFFICE.

NAPOLEON DU BRUL, OF CINCINNATI, OHIO.

TOBACCO-CUTTING MACHINE.

1,015,428.

Specification of Letters Patent.

Patented Jan. 23, 1912.

Application filed April 25, 1910. Serial No. 557,577.

To all whom it may concern:

Be it known that I, NAPOLEON DU BRUL, a citizen of the United States, and resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Tobacco-Cutting Machines, of which the following is a specification.

This invention relates to machines for producing long cut tobacco, particularly that class of such machines which are designed to cut the tobacco into very thin threads, and has for its object to produce a machine of this kind, which will feed the tobacco uniformly throughout the entire breadth of the mouth and avoid the dragging on the sides of the body of tobacco, which tends to present an uneven front at the shearing edge. This object is attained by providing the feeding means with confining flanges, which restrict the width of the body of tobacco and prevent its contact with the side walls of the machine. The flanges are preferably provided on the lower roll of a pair of feed rolls, immediately in advance of the mouthpiece of the machine, and the space in which the tobacco is confined by the flanges is preferably slightly less than the width of the feeding trough and mouth so that after the tobacco leaves the rollers and passes into the mouth, it will continue to be free from retarding influence at the sides.

The invention will be fully understood upon reference to the accompanying drawing in which,

Figure 1 is a vertical longitudinal section of those parts of a tobacco cutting machine with which my invention is immediately concerned; Fig. 2 is a front elevation of the upper portion of a tobacco cutting machine having my invention embodied therein; and Fig. 3 is a detail view of the flange roller and its cooperating roller, which condense tobacco immediately prior to its entering the mouth of the machine.

1 represents the mouth of the tobacco cutting machine, which has a shearing edge 1^a with which the cutting knife 6 cooperates in a known manner.

2 represents the lower roller and 3 the upper roller of a pair of condensing and feeding rollers, located immediately in advance of the mouth of the machine and in such relation thereto that they cause the tobacco to feed through the mouth to the cutting edge.

Under the pressure of the roller 3, the tobacco has a tendency to spread laterally, and it is found in practice, that this causes the sides of the body of tobacco being fed to be retarded by the friction of the side walls of the machine so that the tobacco does not feed uniformly throughout its width but presents an uneven front, which results in unsatisfactory cutting. To overcome this dragging effect, the roller 2 is provided with flanges 2^a, one or both of which may be conveniently attached to the roller by screws 2^b. These flanges may if desired be spaced apart slightly less than the distance between the inner side walls of the machine, so that they will prevent the tobacco dragging against said side walls, and since they rotate with the roller 2, the roller is adapted to impart a drive to the sides of the body of tobacco as well as to its upper and under surfaces. The flanges enter recesses in the mouthpiece 1 and being spaced apart less than the width of said mouthpiece, the tobacco, which is delivered by the roller 2, is prevented from dragging on the sides of the mouthpiece.

I claim:—

1. In a tobacco cutting machine, a feeding mouth, horizontal feeding means in position to contact with the horizontal surface of the body of tobacco and lateral confining and feeding means in position to contact with the vertical surfaces of the body of tobacco, and limit the lateral dimensions of said body to less than the space between the side walls of the feeding mouth cutting area.

2. In a tobacco cutting machine, a feeding mouth, a feeding roller having flanges removably secured thereto confining the tobacco laterally and rotating with the roll to impart feeding movement to the sides of the body of tobacco, the space between said flanges being less than the space between the side walls of the feeding mouth.

3. In a tobacco cutting machine, a pair of feeding rollers, and flanges on one of said rolls, confining the tobacco laterally and rotating with the roll to impart feeding movement to the sides of the body of tobacco.

4. In a tobacco cutting machine, a feeding mouth and a feeding roll in advance of the mouth having flanges, which rotate with the roll and are spaced apart less than the width of the feeding mouth.

5. In a tobacco cutting machine, the combination of a feeding roll having flanges for confining the tobacco laterally and a feeding mouth, located to receive the tobacco from the roll and recessed to receive the flanges of the roll.

The foregoing specification signed at Cincinnati, Ohio, this twenty-first day of April, 1910.

cinnati, Ohio, this twenty-first day of April, 1910.

NAPOLEON DU BRUL.

In presence of—

ERNEST A. DU BRUL,
ERNEST OFFERKUCK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."