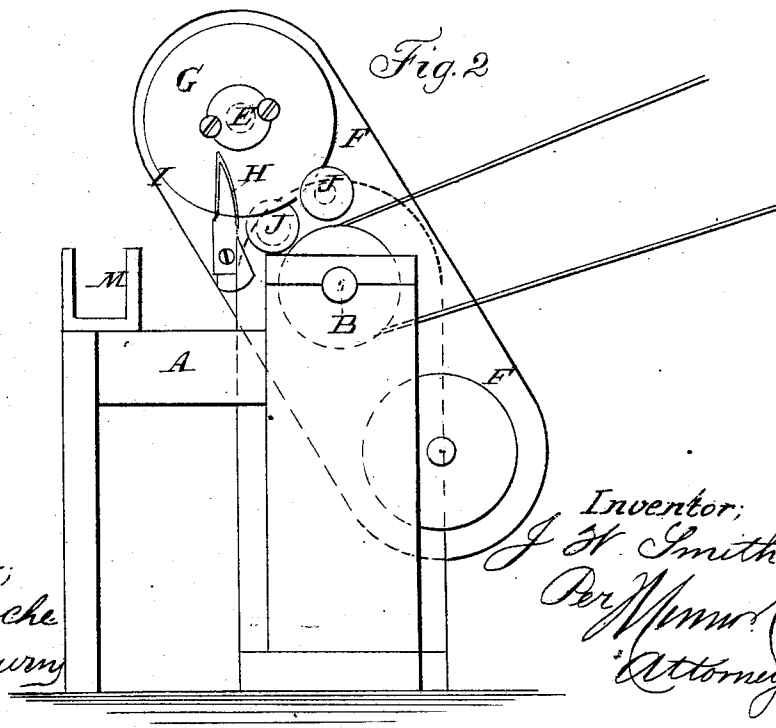
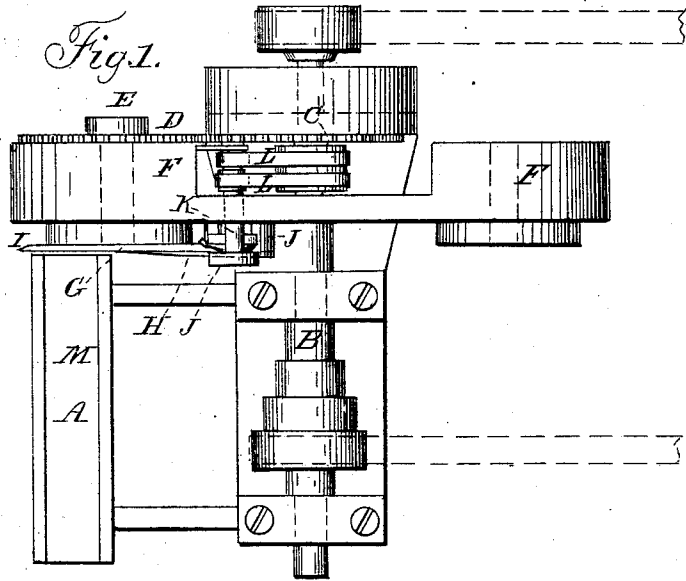


J. W. SMITH.
Tobacco Cutter.

No. 69,853.

Patented Oct. 15, 1867.



Witnesses;
Theo. Fische
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United States Patent Office.

JARED W. SMITH, OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 69,853, dated October 15, 1867; antedated October 3, 1867.

MACHINE FOR CUTTING TOBACCO.

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, J. W. SMITH, of New Haven, in the county of New Haven, and State of Connecticut, have invented new and useful improvements in Machines for Cutting Tobacco, etc.; and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

In the machine embraced by the present invention one or more circular knife-blades are hung to a frame or beam, arranged to swing around in a circular plane, with the knives so connected to the driving-power that as the beam revolves they will revolve, and thereby produce a draw cut upon the tobacco or other material fed along to the same. In combination with the revolving knives, scrapers are arranged to scrape, and thus to remove and clear from them, the tobacco that may have been left upon them in the cutting operation; and also sharpening-wheels, for sharpening and resetting the cutting edges of the knife. In the accompanying sheet of drawings my improvements in machines for cutting tobacco, etc., are illustrated—

Figure 1 being a plan or top view of the machine, and

Figure 2 an elevation of one end of the same.

Similar letters of reference indicate like parts.

A, in the drawings, represents the framework of the machine, suitably constructed to receive the working parts of the same. B, the driving-shaft, hung in suitable bearings of the framework A so as to revolve therein in a horizontal plane. On this shaft B is a gear-wheel, C, with which a gear-wheel, D, engages, hung by its spindle or shaft E to the outer end of a frame or beam, F, arranged to swing around upon the driving-shaft B. G, a circular knife-blade, secured to spindle E, carrying gear-wheel D. H, a knife-blade, secured to beam F, in position to project over the front side of the cutting edge of the circular knife G, with its cutting edge I in the proper direction to scrape the circular knife G as it revolves. J, sharpening-rollers or wheels, hung by their shafts K in swinging beam F, and so as to bear or act upon the faces of the circular knife as it revolves, the one upon one side and the other upon the other, and thus to sharpen the same. These sharpening-wheels are connected through belts L with the driving-shaft of the machine. M, the feed-box for the tobacco to pass to the cutting-knives.

The operation of the machine, constructed as above described, is as follows: The tobacco to be cut is placed in the feed-box M, wherein being pressed forward to its open end N, the circular knife G, as the beam carrying it is swung around, cuts the tobacco by such knife, which, as it passes through the tobacco, having a revolving motion, produces thereby a drawing cut on the same, the scraper cleansing the circular knife from the tobacco remaining upon it, and the wheels resharpening the cutting edges.

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

1. The beam or frame F, arranged to revolve, and provided with one or more revolving circular knives, G, substantially as described for the purpose specified.
2. The scraper H, in combination with the revolving circular knives G, substantially as and for the purpose described.
3. The sharpening-rollers J, in combination with the knives G, substantially as and for the purpose specified.

The above specification of my invention signed by me this 13th day of February, 1867.

JARED W. SMITH.

Witnesses:

WM. F. McNAMARA,
ALBERT W. BROWN.