

UNITED STATES PATENT OFFICE.

REMSEN APPLEBY, OF BEVERLY, NEW JERSEY.

IMPROVEMENT IN MACHINES FOR GRANULATING TOBACCO.

Specification forming part of Letters Patent No. 133,136, dated November 19, 1872.

To all whom it may concern:

Be it known that I, REMSEN APPLEBY, of the town of Beverly, in the county of Burlington, and State of New Jersey, have invented a new and useful Machine for Preparing Granulated Tobacco; and I do hereby declare the following to be a sufficiently full, clear, and exact description thereof to enable a person skilled in the art to make and use the said invention.

The nature of my invention consists in a spirally-arranged series of revolving shear-blades, cutting the tobacco in shreds between a corresponding series of stationary blades, and, in combination therewith, a vibrating sieve, by means of which I am enabled, with but slight loss in dust or snuff, to produce a uniformly-sized article of granulated tobacco, suitable for cigar-fillings or smoking in pipes or cigarettes.

I will now proceed to particularly describe the mode in which my invention is to be made and operated, referring, in so doing, to the drawing annexed and letters of reference marked thereon.

Figure 1 shows a plan. Fig. 2 shows a front elevation. Fig. 3 shows an elevation of the end to the right in Fig. 2.

A represents a box or hopper mounted upon legs B. C is a shaft, bearing shear-blades D placed upon it and secured by keys or feathers, so as to be in a helical line upon the shaft C. E E are stationary shear-blades, which, fitting in the spaces between the rotating blades D, cut into strips or shreds the tobacco dropped

into the hopper A, whence it falls on an inclined sieve, F, which is at the upper end suspended from a vibrating lever, G, operated by a pitman, H, and crank J in the shaft C. A pinion, K, and spur-wheel, L, serve to multiply the motion imparted by the hand of the operator to the handle N of the crank.

Tobacco thrown into the hopper in strips and falling on the stationary blades E is cut into small pieces by the blades D, and falling on the sieve F, if of proper size, passes through, and, if too long, slides down the sieves, and is again put into the hopper A and reduced to the proper size.

The advantage resulting from the use of this machine is, that pieces of tobacco too small to be used in the making of cigar-fillings by manual operation are converted, without appreciable waste, into an article adapted to cigar fillings or "bunches," and the bunches so made are so uniform in texture that in smoking they burn more uniformly than if made of pieces of promiscuous size.

What I claim as my invention, and desire to secure as such by Letters Patent, is—

An improvement in apparatus for granulating tobacco, consisting of a spirally-arranged series of rotating shear-blades with the series of stationary blades, and the vibrating sieve, arranged and operating together, as described.

REMSEN APPLEBY.

Witnesses:

S. LLOYD WIEGAND,
BARAN SCLAUK.