

**A. MONTES.**

MACHINES FOR TRIMMING CIGARETTES.

No. 174,277.

Patented Feb. 29, 1876.

*Fig: 1.*

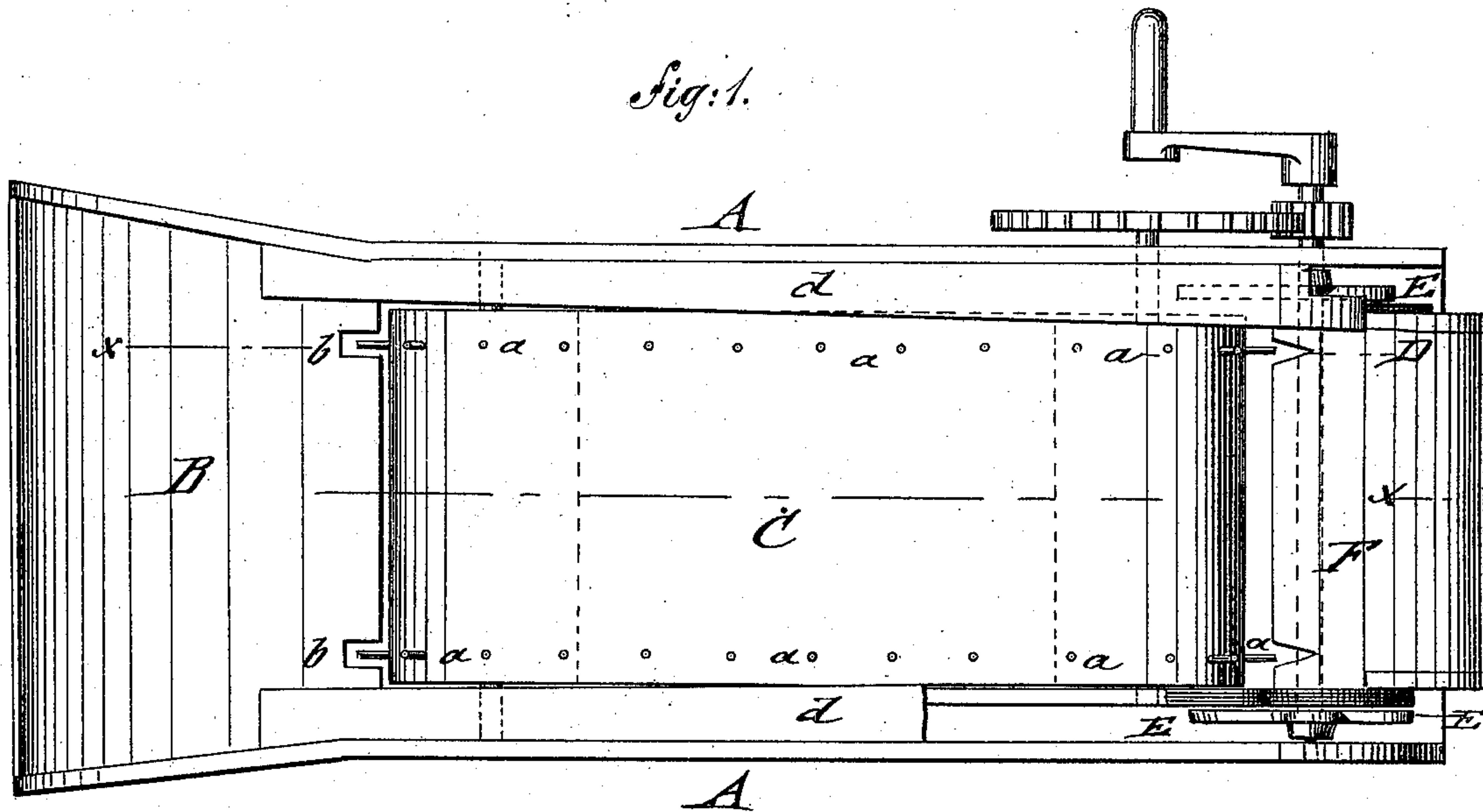
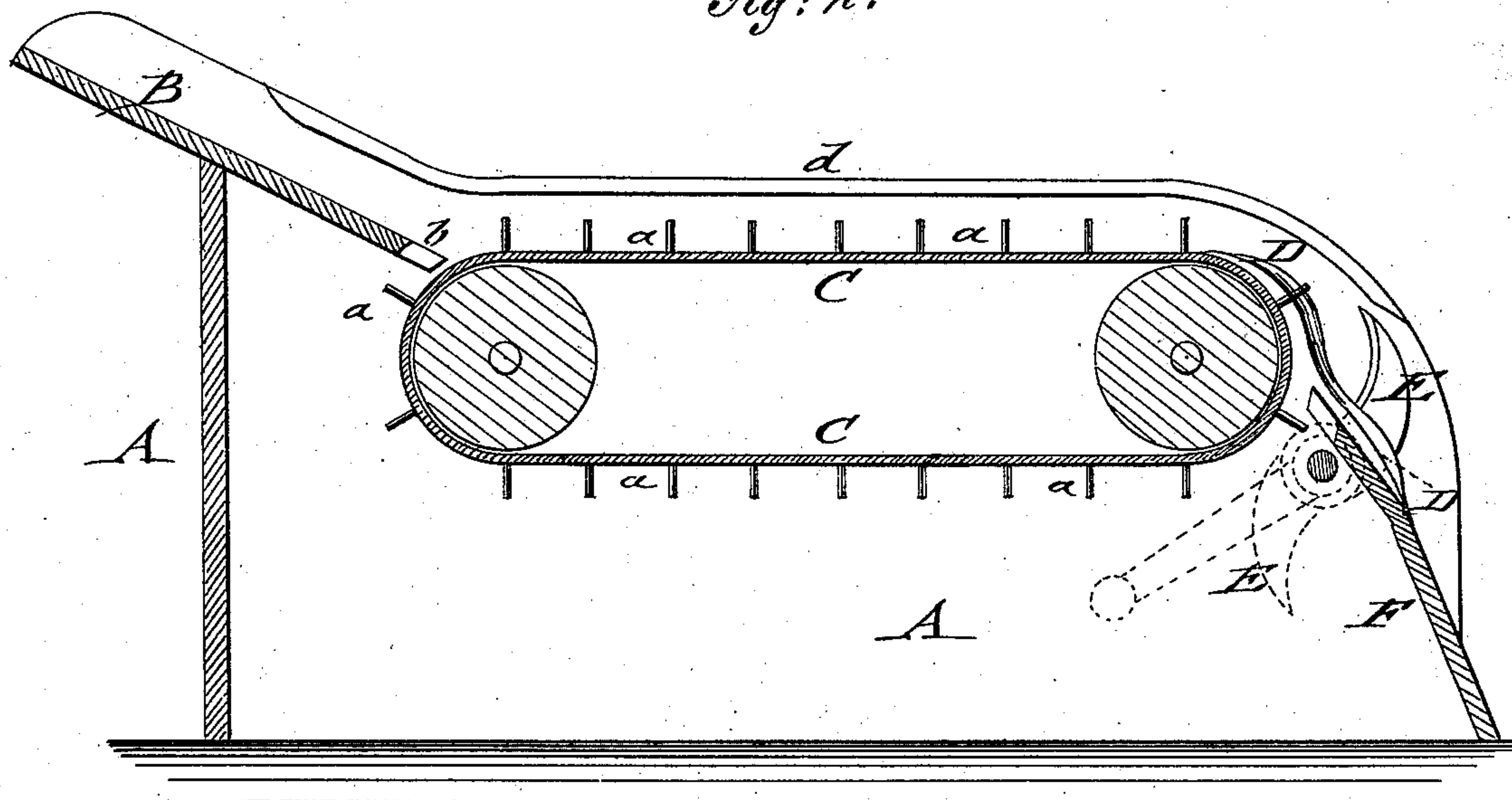


Fig: 2.



**WITNESSES:**

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# UNITED STATES PATENT OFFICE

ANDREW MONTES, OF NEW YORK, N. Y.

## IMPROVEMENT IN MACHINES FOR TRIMMING CIGARETTES.

Specification forming part of Letters Patent No. **174,277**, dated February 29, 1876; application filed December 27, 1875.

*To all whom it may concern:*

Be it known that I, ANDREW MONTES, of the city, county, and State of New York, have invented a new and Improved Machine for Trimming Cigarettes, of which the following is a specification:

Figure 1 represents a top view, and Fig. 2 a vertical longitudinal section on line *xx*, Fig. 1, of my improved machine for trimming cigarettes.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a simple and effective machine by which that class of cigarettes that are open at the ends may be neatly, rapidly, and evenly trimmed.

The invention consists of a spurred endless belt that feeds the cigarettes from a hopper to the revolving trimming-knives at the sides of the belt, and then delivers them over an inclined end plane to a suitable receptacle.

In the drawing, A represents a supporting-frame of oblong shape and somewhat greater width than the cigarettes to be trimmed. At one end is arranged a hopper or inclined feeding plane, B, on which the cigarettes are placed, to be gradually taken up by the spurs *a* of an endless rubber or other belt, C. The spurs or pins *a* are arranged equidistant and at both sides of belt C, and pass through corresponding slots or recesses *b* of plane B, so that a cigarette is carried forward by every two spurs that pass simultaneously through the slits. The cigarettes are fed forward on the belt toward the other end of frame A, being pre-

vented from getting away from the spurs by top guide-pieces *d*, that form side channels into which the ends of the cigarettes project. They are conveyed at the end of the belt from the spurs to curved stationary cutters D, and exposed simultaneously to the action of curved revolving knives E, that cut or trim the projecting ends of the cigarettes so that a perfectly uniform size of all is obtained. The cutter-shaft is turned by a hand-crank or otherwise, and transmits at the same time, by suitable gearing, motion to the driving-roller of the feed-belt. The trimmed cigarettes are conveyed from the stationary side cutter D, over inclined plane F, to a suitable receptacle, the plane F being also recessed at the upper edge for the passage of the spurs or pins of the belt.

The cigarettes may, by means of this machine, be rapidly fed to the cutters and delivered in uniform size for being bundled and packed in the usual manner.

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

The combination of the inclined feeding-plane B having slits *b*, endless belt C having spurs *a* at equal intervals on both sides, the guides *d*, the stationary cutters D, the revolving cutters E, and the stripper F, as and for the purpose specified.

ANDREW MONTES.

Witnesses:

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