

A. A. HAGEN.
Tobacco-Cutting Machine.

No. 168,636.

Patented Oct. 11, 1875.

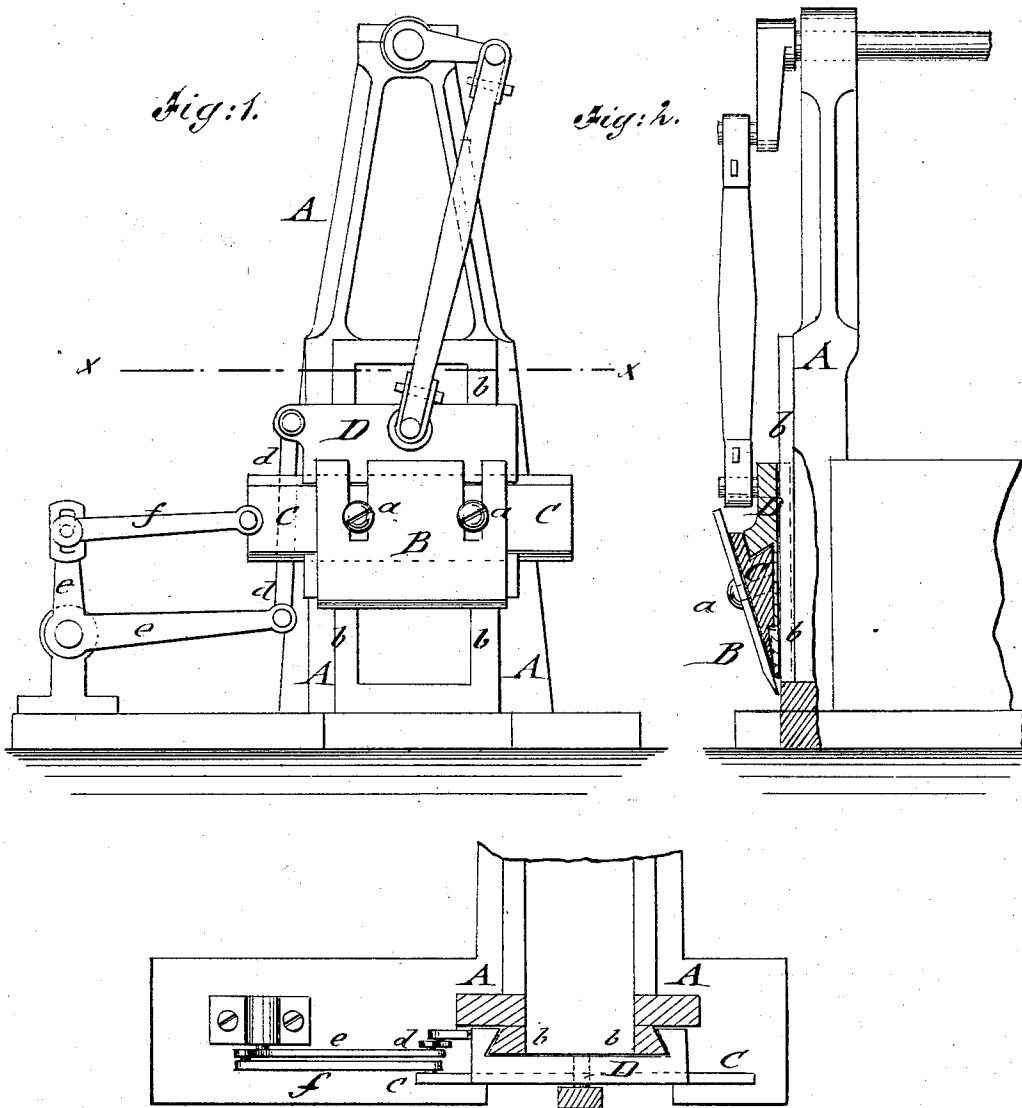


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

AUGUSTUS A. HAGEN, OF NEW YORK, N. Y.

IMPROVEMENT IN TOBACCO-CUTTING MACHINES.

Specification forming part of Letters Patent No. **168,636**, dated October 11, 1875; application filed August 7, 1875.

To all whom it may concern:

Be it known that I, AUGUSTUS A. HAGEN, of the city, county, and State of New York, have invented a new and Improved Tobacco-Cutting Machine, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front view; Fig. 2, a vertical transverse section, and Fig. 3 a horizontal section on line *x x*, Fig. 1, of my improved tobacco-cutting machine.

Similar letters of reference indicate corresponding parts.

My invention has reference to an improved machine for cutting tobacco in rapid and easy manner; and it consists of a cutting-knife, to which a diagonal shear-cut is imparted by a compound slide mechanism.

In the drawing, A represents a cutter-supporting standard with feed-opening for the tobacco, in front of which the reciprocating cutting-knife B is guided. The slotted cutter B is adjustably secured, by set-screws *a*, to a horizontally-sliding plate, C, that is guided in the dovetailed groove of a vertically-sliding cutter-plate, D, which moves along dovetailed vertical guide-strips *b* of standard A. The

vertically-sliding cutter-plate D is operated by a crank-rod and crank connection with the driving-shaft, and arranged to impart motion to the horizontally-sliding cutting-plate C by a pivotal link, *d*, a fulcrumed elbow-lever, *e*, and a second pivot-link, *f*, which connects the shorter arm of the elbow-lever with the horizontally-sliding plate C. The simultaneous motion of both cutter-plates by means of the connecting parts produces diagonal motion of the cutter, and thereby a very effective shear-cut that cuts the tobacco or other article with great rapidity, requiring less power than the common cutters at present in use.

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

The combination, in a tobacco-cutter, of the horizontally-sliding plate C, carrying cutting-knife B, the vertically-movable plate or head D, and the link or levers *d e f*, substantially as and for the purpose specified.

AUGUSTUS A. HAGEN.

Witnesses:

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