W. W. HUSE.

Tobacco Cutter.

No. 46,908.

Patented March 21, 1865.

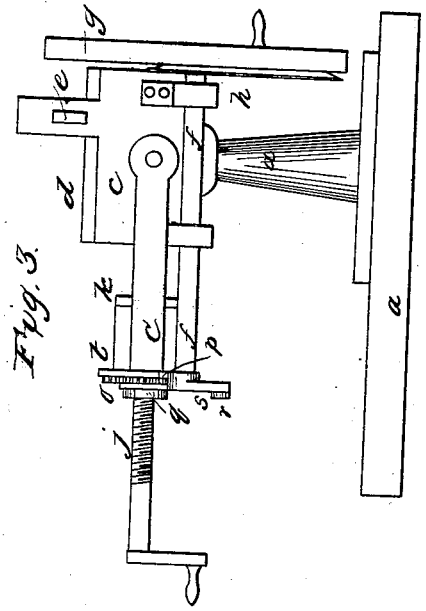

Fig. 3.

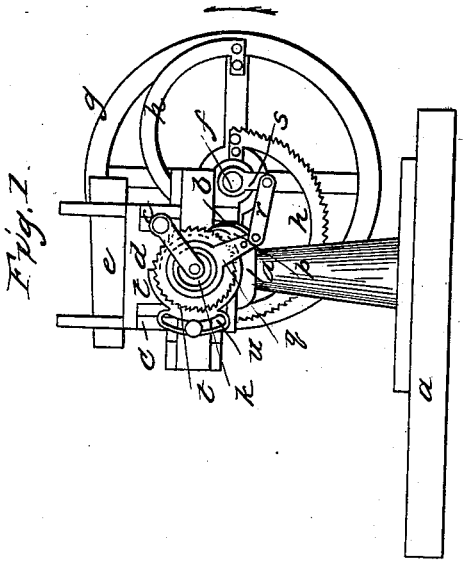

Fig. 1.

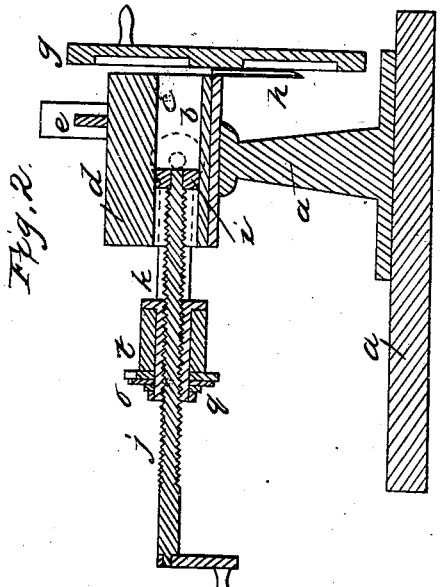

Fig. 2.

Witnesses:

Inventor:

UNITED STATES PATENT OFFICE.

W. W. HUSE, OF BROOKLYN, NEW YORK.

IMPROVED MACHINE FOR CUTTING TOBACCO.

Specification forming part of Letters Patent No. **46,908**, dated March 21, 1865.

To all whom it may concern:

Be it known that I, W. W. HUSE, of Brooklyn, Kings county, and State of New York, have invented a certain new and useful Improvement in Machinery for Cutting Tobacco; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a back elevation; Fig. 2, a longitudinal vertical section, and Fig. 3 a side elevation.

The same letters indicate like parts in all the figures.

My invention relates to machinery for cutting tobacco by revolving knives, as it is gradually advanced in a trough, by mechanism which can be readily adjusted to determine the extent of feed between any two cuts.

In the accompanying drawings, *a* represents a suitable frame, in the upper part of which is formed a horizontal bed, *b*, with parallel sides *c c*, to form a trough or way to receive the tobacco to be cut, and in which it is moved toward the cutters. To this trough is fitted a cap-plate, *d*, which, after the tobacco has been placed, is held down by a wedge-key, *e*. At the side of the trough is mounted a horizontal shaft, *f*, to the front end of which is secured a wheel, *g*, with arms and a crank-handle, and to the inner face of the hub and rim of this wheel are secured cutters *h h*, which stand off from the inner face of the arms sufficiently for the passage of the cut tobacco. I make the cutting-edge of the cutters convex in the form of a segment of a circle, to obtain a gradual draw-cut, and I make them either smoothed or serrated, according to the purpose for which the tobacco may be intended. The front edge of the trough should be of steel, with a sharp square edge to facilitate the cutting operation. The tobacco is fed or pushed forward by a follower, *i*, on the end of a screw, *j*, which passes through a rotating nut, *k*, mounted in the frame. The nut *k* carries a ratchet-wheel, *o*, which is actuated by a pawl, *p*, on an arm, *q*, which turns on the rear part of the nut *k*, and this arm *q* receives a vibratory motion by a connecting-rod, *r*, from a crank, *s*, on the rear end of the shaft *f*.

To regulate the extent of feed, there is a cam-plate, *t*, against the inner face of the ratchet-wheel, and mounted so that it can turn on the nut *k*. A portion of the periphery of this plate is of less diameter than the ratchet-wheel, and the rest of greater diameter, so that as the arm *q* vibrates the pawl *q* the cam form of the edge of the cam-plate will determine when the pawl shall act on the ratchet-teeth. The cam-plate is held by a screw passing through a segment-slot, *u*, to admit of setting it, so that by turning and setting the plate the extent of feeding-motion can be readily adjusted.

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

The combination, substantially as herein described, of the non-rotating feeding-screw, the rotating nut mounted thereon and provided with a ratchet-wheel, the vibrating pawl or ratchet-hand, and the adjustable cam-plate for determining the extent of feed-motion which shall be imparted to the ratchet-wheel, for the purpose specified.

WM. W. HUSE.

Witnesses:
WM. H. BISHOP,
ANDREW DE LACY.