L. EVANS.

Feed Cutting Machine.

No. 166,196. Patented Aug. 3, 1875.

Fig. 1.

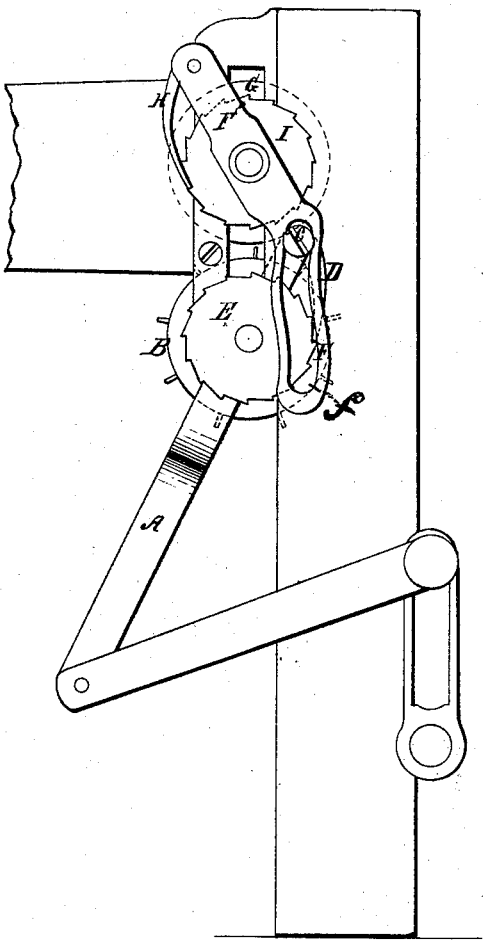
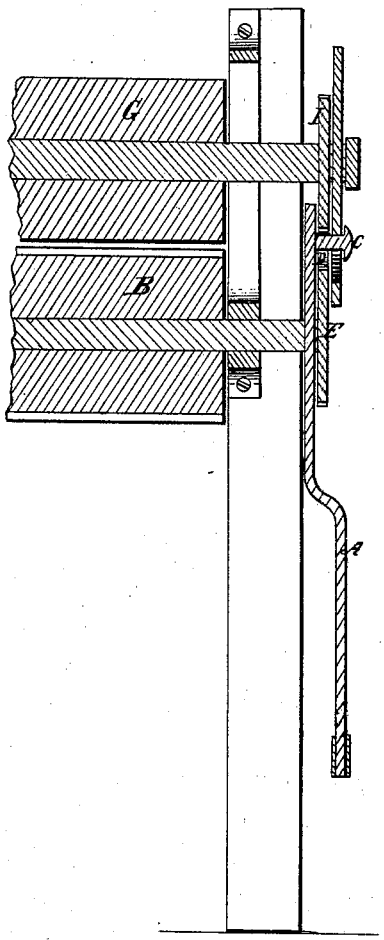


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

LUCIUS EVANS, OF FAYETTEVILLE, NEW YORK.

IMPROVEMENT IN FEED-CUTTING MACHINES.

Specification forming part of Letters Patent No. **166,196**, dated August 3, 1875; application filed July 1, 1874.

To all whom it may concern:

Be it known that I, LUCIUS EVANS, of Fayetteville, in the county of Onondaga and State of New York, have invented or produced a new Improvement in the Feed Part of Straw and other Fodder Cutter; and I do hereby declare that the following is a full and exact description of the same, with reference to the drawing hereunto annexed and forming a part hereof.

This invention relates to certain improvements in fodder-cutters; and it consists, first, of a crank-lever fulcrumed to the axis of the upper feed-roller, and provided at its upper end with a pawl engaging a ratchet on the end of said roller, and having its lower arm slotted; and, second, of a second lever fulcrumed to the axis of the lower feed-roller, and having its upper end working in the slotted arm of the crank-lever, and provided with a pawl engaging a ratchet on the end of the latter-mentioned feed-roller, substantially as hereinafter more fully explained.

Figure 1 is a sectional side elevation of my improved fodder-cutter; and Fig. 2 is a cross-sectional elevation of the same.

In the annexed drawing, B and G are the feed-rollers. Upon the axis-shaft of the upper roller G is fulcrumed the crank-lever F, from the upper end of which depends a pawl, H, engaging a ratchet, I, upon and near the end of said axis-shaft, and having its lower arm provided with an elongated curved or crooked slot, *f*, by which the upper roller is permitted to yield upward, and thus increase the distance between the feed-rollers, to adapt them to cutting different thicknesses of fodder.

By this construction of slot *f* the rollers are caused to squeeze and feed the fodder as it is being cut. A is a second lever, fulcrumed upon the axis of the lower feed-roller B, which may be operated by crank, eccentric, or other similar mechanism, and having a stud, C, on its upper end, bent and working in the slot *f* of the lever F, its lower end being jointed to a link suitably secured in place to an arm on the crank-shaft which operates the reciprocating cutters. From the pin or stud C depends a pawl, D, which engages a ratchet, E, upon the end of the lower feed-roller.

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

The slotted and pivoted arm E *f*, with pawl H, reciprocating arm A, with pawl D and stud C, in combination with the ratchet I on yielding roller G, and ratchet E on roller B, for feeding the material to the cutting-knives, as set forth.

L. EVANS.

Witnesses:
A. EVANS,
H. S. JEWELL.