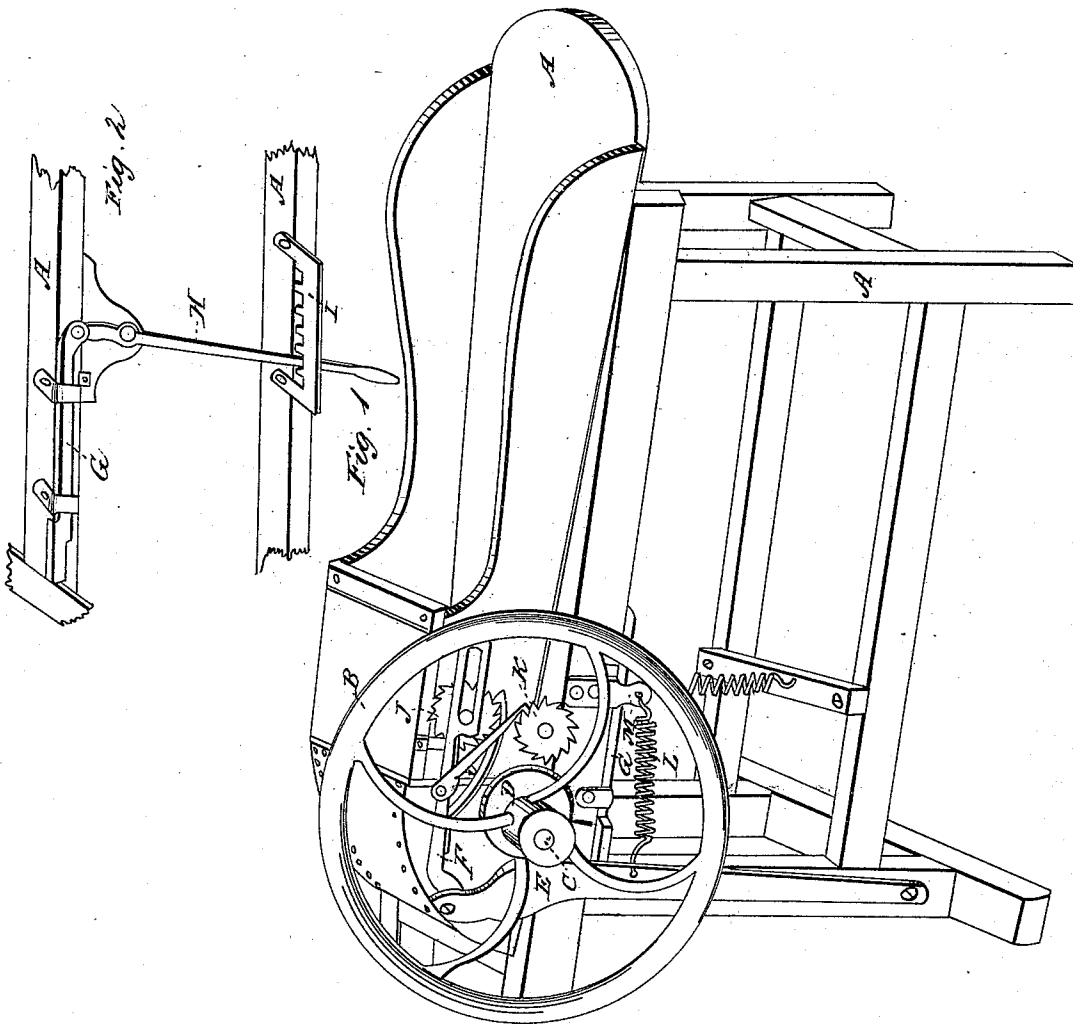


W. H. EVANS.

Straw Cutter.

No. 65,893.

Patented June 18, 1867.



WITNESSES:

W. H. Mainwright
John D. Smith

INVENTOR:

Wm. H. Evans

United States Patent Office.

WILLIAM H. EVANS, OF RICHMOND, INDIANA.

Letters Patent No. 65,893, dated June 18, 1867; antedated June 10, 1867.

IMPROVEMENT IN STRAW-CUTTERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that I, WILLIAM H. EVANS, of Richmond, Indiana, have invented certain new and useful improvements in Straw-Cutters; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a perspective view of my improvement; and

Figure 2 a sectional bottom view of the same.

A represents the framing of the box of a straw-cutter of the usual form, and B is an ordinary balance-wheel attached to and turning upon the shaft C, while D is an eccentric plate-wheel placed upon and revolving with the shaft C inside of the balance-wheel B. E is a rock-shaft, the lower end of which is hinged near the bottom of the front upright post of the framing, being vertical, and extending above the line of the shaft C. At the top of the rock-shaft E is attached at right angles an arm, F, the opposite end of which is provided with a slot, which slot works upon the journal of the ratchet-wheel J, which serves as a guide and support for the same. The spring L, attached to the ear M at one end, and to the rock-shaft E at its opposite end, serves to hold the rock-shaft firmly against the face of the eccentric-wheel D. Attached to the horizontal arm F are pawls 1 and 2 arranged to operate the ratchet-wheels J and K, which are on the outer ends of the feed-rollers of the straw-cutter. It will be seen that by a turn of the shaft C the eccentric D carries the rock-shaft back, producing a reciprocating motion of the arm F and pawls 1 and 2, and producing a partial revolution of the feed-rollers by means of the ratchet-wheels J and K. G is an adjustable stop operated by the lever H, fig. 2, and attached to the bottom of the straw-box, by which the amount of vibration is controlled, and length of the fodder cut regulated at will, and while the machine is in motion. The rack I, fig. 2, attached to the bottom of the straw-box, is arranged with a series of stops to hold the lever H in place, as may be desired.

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

1. The rock-shaft E, slotted arm F, pawls 1 and 2, and spring L, in combination with the eccentric-wheel D and feed-roller ratchets J and K, arranged and operating substantially as herein set forth and described.
2. The stop G, arm or lever H, and rack I, in combination with the rock-shaft E, as and for the purposes set forth.

WM. H. EVANS.

Witnesses:

W. H. WAINWRIGHT,
WM. T. DENNIS.