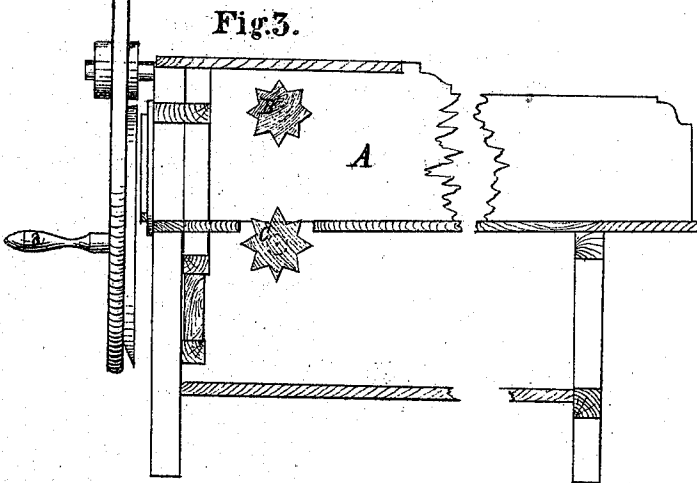
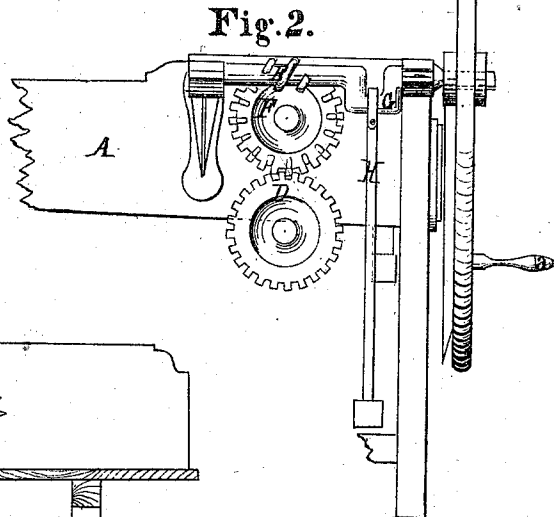
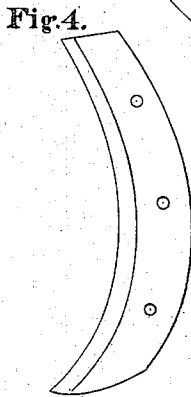
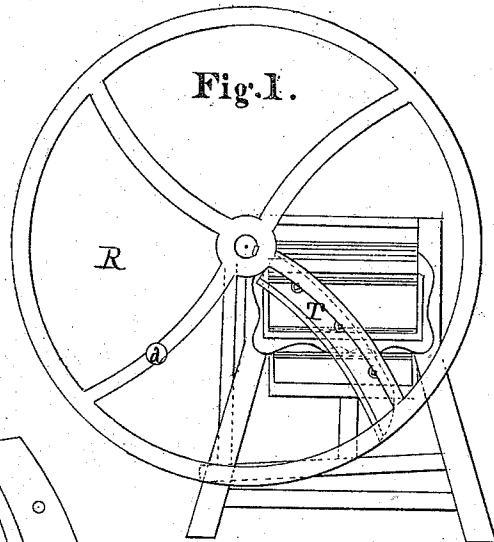


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Feed Cutter.

2. Sheets, Sheet 1.

No. 97,687.

Patented Dec. 7. 1869



Witnesses.
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2. Sheets, Sheet 2.

H. Peterson,

Feed Cutter.

No. 97,087.

Patented Dec. 7, 1869.

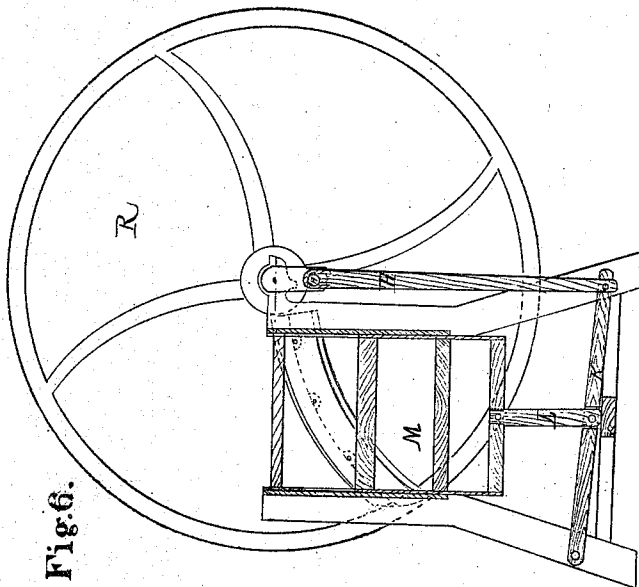


Fig. 6.

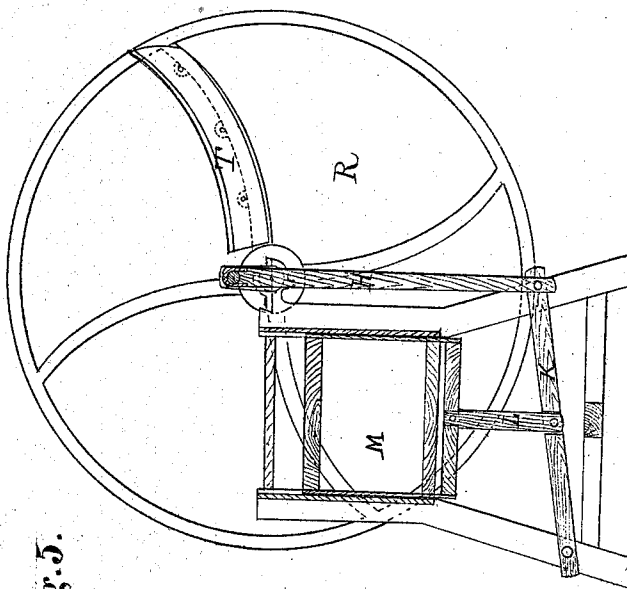


Fig. 5.

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United States Patent Office.

HANS PETERSON, OF RED WING, MINNESOTA.

Letters Patent No. 97,687, dated December 7, 1869.

IMPROVEMENT IN FEED-CUTTER.

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

To all whom it may concern:

Be it known that I, HANS PETERSON, of Red Wing, in the county of Goodhue, and State of Minnesota, have invented a new and valuable Improvement in Feed-Cutters; and I do hereby declare that the following, is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1, of the drawings, is a front view of my invention.

Figure 2 is a side view, showing gearing.

Figure 3 is a vertical central longitudinal section of my invention.

Figure 4 is a detached view of knife.

Figures 5 and 6 are transverse vertical sections, showing the movement of the sliding-frame.

My invention has relation to means for cutting hay, straw, and other long feed for animals; and

It consists in a novel arrangement of devices, intended to serve as an efficient apparatus for the purpose named.

A, of the drawings, represents a long box, open at each end, and arranged upon a frame in the usual manner, and

B and C represent corrugated cylinders, extending from side to side of said box, with bearings in the sides thereof. These cylinders are designed to draw the feed forward in the box, and for that purpose are made to rotate, by means of the gearing, hereinafter described.

F and D are pinions, respectively attached to the ends of the cylinders, outside the box, as shown, and

E is a worm-shaft, arranged to mesh and work with the pinion F, as represented on fig. 2.

This worm-shaft is also constructed with a crank, as shown at G, to which the pitman H is connected.

K is a lever, pivoted to a leg of the frame, at one end, and to the pitman H at the other.

It is also united, at its middle, to the arm L, by a pivot bolt, as shown.

M represents a quadrangular frame, united to the lever K by the pivoted arm L, the object of which is to press the feed down closely together, while the process of cutting is being carried on, as described hereafter. It is moved up and down by means of the crank and its connections, in slots formed for that purpose in the inner side of the box, respectively.

R is a large wheel, firmly attached to the front end of shaft E, and I affix to it a crank-pin, a. The moving-machinery is operated by rotating this wheel.

T represents my cutting-knife attached and made removable, by screws, to one of the arms of the wheel R, as shown on figs. 1 and 5.

To operate my device, I place the feed lengthwise in the box, and turn the wheel. The gearing causes the cylinders to draw the feed forward between them, while, by means of the crank, pitman, and lever, the frame M pushes the same down firmly at every revolution of the knife, and precisely at the moment of cutting. This arrangement causes the feed to be drawn forward and pressed into the proper volume for cutting, by means that operate automatically.

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

1. The frame M, arm L, lever K, pitman H, crank-shaft E, and wheel R, when constructed and arranged to operate as specified.

2. In combination with frame M, and its operating connections, the cylinders F and D, and removable-knife T, when constructed and arranged as and for the purpose specified.

In testimony that I claim the above, I have hereunto subscribed my name, in the presence of two witnesses.

HANS PETERSON.

Witnesses:

FRANK IVES.

R. B. SMITHER.