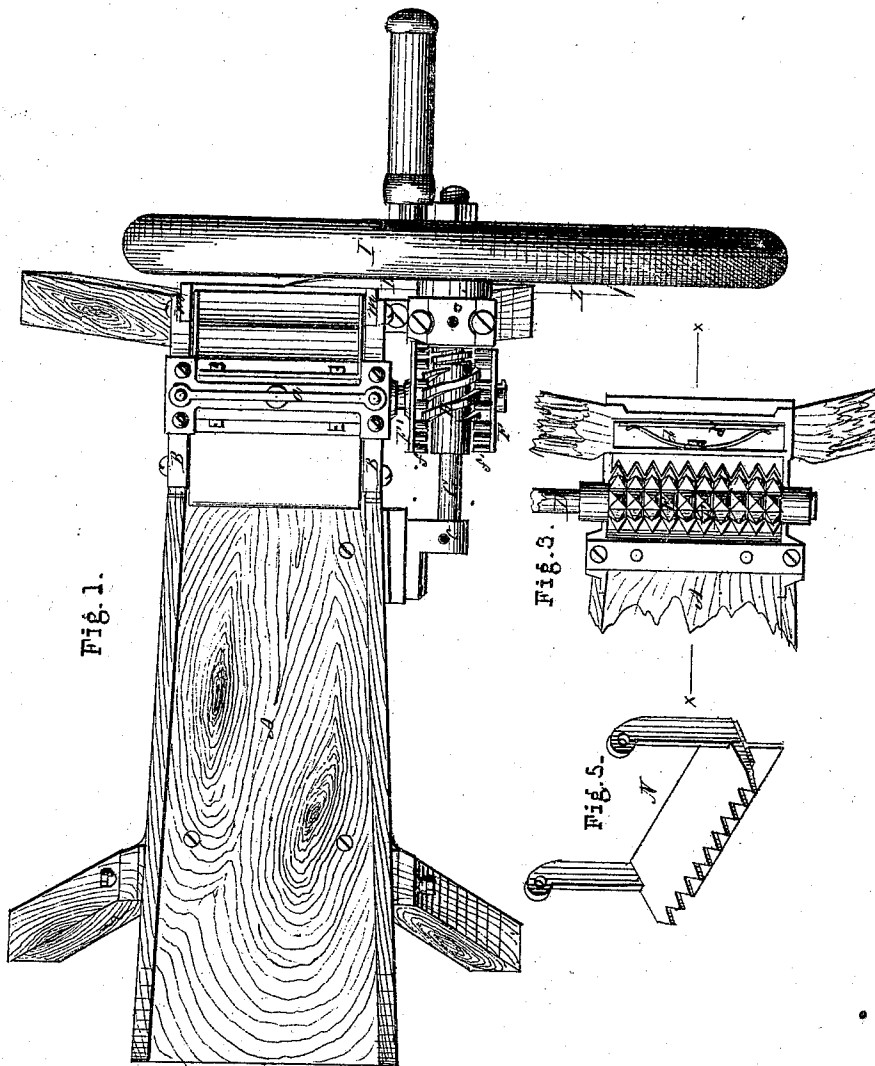


2. Sheets, Sheet 1.

J. Seaman,
Straw Cutter.

No. 113,579.

Patented Apr. 11, 1871.



Witnesses.

Wm. H. Munn
W. S. Mart.

Inventor.

Joseph Seaman
By Binder & Co.
Associate Attys.

J. Seaman,

Straw Cutter.

No. 113,579.

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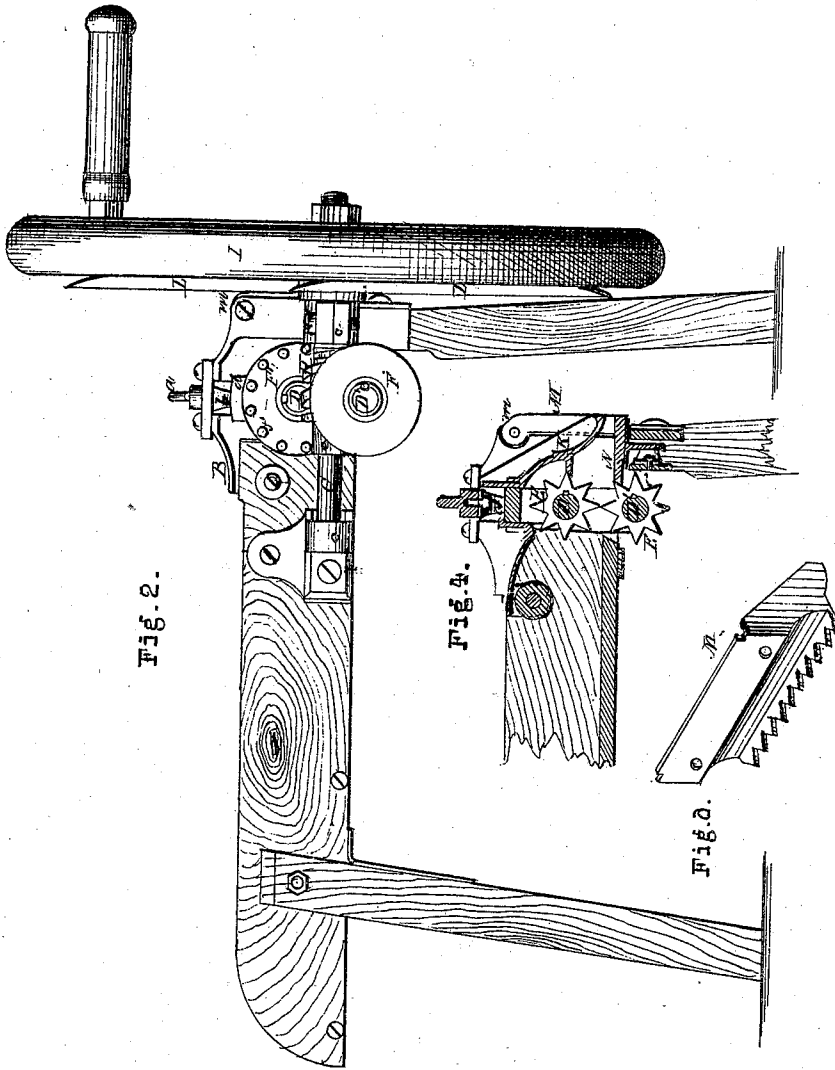


Fig. 2.

Fig. 4.

Fig. 3.

Witnesses.

Adolphus
W. J. Mart

Inventor.

Joseph Seaman
by *Smith & Dyer*
Associate Attys.

United States Patent Office.

JOSEPH SEAMAN, OF CHICAGO, ILLINOIS.

Letters Patent No. 113,579, dated April 11, 1871.

IMPROVEMENT IN FEED-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, JOSEPH SEAMAN, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Feed-Cutters; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a top plan view of my device;

Figure 2, a side elevation of the same;

Figure 3, a top plan view of the feed-rollers;

Figure 4, a vertical cross-section lengthwise on line $x x$ of fig. 3;

Figure 5, a perspective view of the lower part of the mouth; and

Figure 6, a similar view of the upper part of the same.

Similar letters of reference indicate corresponding parts in each figure.

The nature of this invention relates to the construction of a machine for cutting hay or straw into feed for horses and cattle.

The invention consists in the construction and arrangement of its various parts, as more fully herein-after set forth.

In the accompanying drawing—

A represents a suitable box, to which is attached at the front end the iron frame B.

D D' are spindles, upon which are placed the wheels E, whose peripheries terminate in square pointed teeth.

Spindle D is suitably journaled in boxes a , which are fitted into the slots b in the frame B, and so that they will move freely up and down in them.

Over the top and resting on either of the boxes is placed an elliptic spring, d , which is secured to the cross-bar d' .

Attached to this adjustable part extending forward to the mouth of the machine and back over the feed-

rollers is a press-plate, K, which keeps the material to be cut compact.

On the ends of the spindles D D' are placed the disks F F', whose outer and inner faces, respectively, are provided with equidistant studs $f f'$.

M is a face-plate hinged to the frame B at m , having at its rear a spring, d , which gives sufficient outward pressure on the plate M to insure a perfect shear-cut with the knives.

G is a shaft journaled in bearings $c c$ on the side of the box and frame, to which is securely placed the endless screw H in such manner that the studs of the disks F F' will both gear with it.

On the outer end of this shaft G is placed a driving-wheel, I, the one shown having but two arms, to each of which are secured the knives L.

The knives are so formed and fixed as to pass in front of the face of the machine at an angle approaching forty-five degrees, and close enough to act as a pair of shears with the face of the machine.

N is a comb secured to the bottom face of the face-plate, whose teeth project inward to or near the wheels E on the spindles D', for the purpose of cleaning and preventing them from clogging.

The operation of this class of devices is so well understood that a further description is deemed unnecessary.

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

The improved construction and arrangement of the feed-cutter described and shown, consisting of the box A, the frame B, the spring face-plate, M, the adjustable toothed feed-rollers E E' having the crown-wheels F F' driven by the worm-shaft G, the heavy crank-wheel I carrying the knives L, and the comb N, all substantially as and for the purpose set forth.

JOSEPH SEAMAN.

Witnesses:

SAMUEL E. JONES,
HARRY S. SPRAGUE.