

(No Model.)

W. H. ELLINGER.
BAND CUTTER AND FEEDER.

No. 473,620.

Patented Apr. 26, 1892.

Fig. 1.

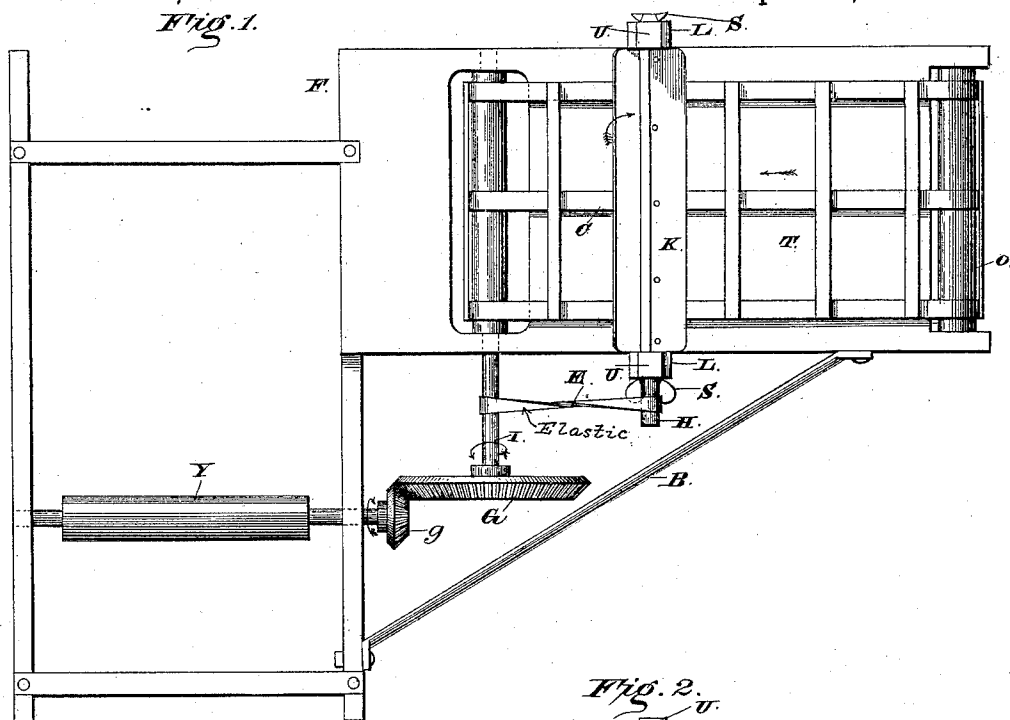


Fig. 2.

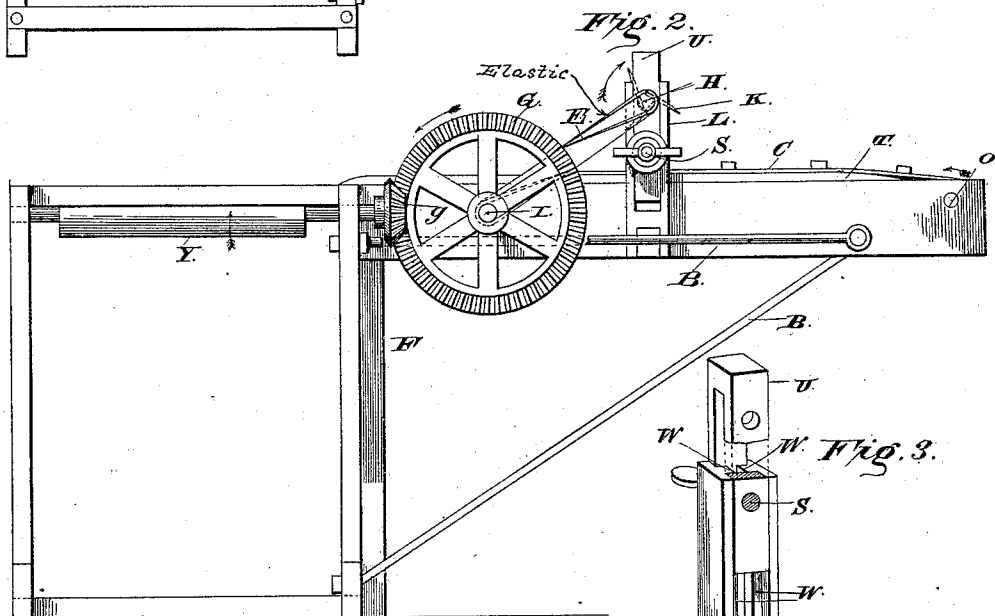
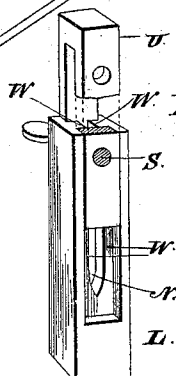


Fig. 3.



Witnesses

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By His Attorneys,

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UNITED STATES PATENT OFFICE.

WILAM H. ELLINGER, OF NI WOT, COLORADO.

BAND-CUTTER AND FEEDER.

SPECIFICATION forming part of Letters Patent No. 473,620, dated April 26, 1892.

Application filed September 29, 1891. Serial No. 407,138. (No model.)

To all whom it may concern:

Be it known that I, WILAM H. ELLINGER, a citizen of the United States, residing at Ni Wot, in the county of Boulder and State of Colorado, have invented a new and useful Band-Cutter and Feeder, of which the following is a specification.

This invention relates to thrashing-machines, and more especially to the band-cutters and feeders used in connection therewith; and the object of the same is to effect certain improvements in devices of this character.

To this end the invention consists in the specific details of construction hereinafter more fully described and claimed, and as illustrated on the sheet of drawings, wherein—

Figure 1 is a plan view of this improved device. Fig. 2 is a front elevation thereof. Fig. 3 is an enlarged perspective detail of one of the adjustable knife-supporting standards with its parts slightly broken away.

Referring to the said drawings, the letter F designates the frame-work of this entire machine, in one portion of which is mounted a thrashing-machine whose cylinder is here designated by the letter Y. On the shaft of this cylinder is a small gear *g*, engaging a larger one G on the end of the inner shaft I of an endless carrier C, which moves over a table T toward the thrashing-machine in a manner which will be clear. At the outer extremity of the endless carrier is the outer shaft or roller O, journaled in the frame F beneath the table, and strong braces B connect this portion of the frame with that part thereof which contains the thrashing-machine, whereby the necessity for legs to support the table and its carrier is avoided, and the grain may be piled all around and under the table.

At each side of the table at about the center of its length is located an adjustable knife-supporting standard constructed as follows: L is the lower member, which is secured to the side of the frame and is provided with a deep notch N at right angles to the length of the table, whereby this member is practically bifurcated, each arm of the bifurcation having an inwardly-projecting web W, as best seen in Fig. 3.

U is the upper member, which is of inverted-U shape, its arms passing downward between the arms of the lower member and on opposite sides of the webs thereof. A bolt or set-screw S connects these two arms near their lower ends and passes through the notch N, and by tightening this screw the arms are drawn toward each other and clamped against the edges of the webs. In the upper ends of the two upper members is journaled a horizontal shaft H, carrying, preferably, about three long blades or knives K, which project tangentially from the shaft, and one end of the latter projects through the standard at the front and is connected by an elastic twisted belt E with the shaft I at the inner end of the carrier.

With this construction of parts the operation is as follows: The revolution of the thrasher-cylinder drives the carrier through the meshing of the gears, and the twisted belt E causes the cutter-shaft to revolve in such direction that the knives move with the carrier. By loosening the screws S the upper members of the standards can be adjusted on the lower, so as to cause the cutter to stand higher or lower with relation to the carrier, according as the size of the bundles may necessitate, the elastic belt stretching or contracting slightly to accommodate the new position of the shaft H. The bundles are thrown upon the carrier so as to stand across the same and are moved thereby under the knives which cut the bands in a manner which will be clear. The grain is then carried on to the thrashing-machine, to which it is delivered in the proper position for treatment. The knives are so high above the carrier that the operator will not injure his hands thereon if he is at all careful, and the absence of any legs or supports for the table gives much room that would not otherwise be available.

The parts are of the desired proportions and materials, and the construction may be changed considerably without departing from the spirit of my invention.

What is claimed as new is—

In a band-cutter and feeder, the combination, with the feeding-table, a carrier moving over the same, and supports for the table, of standards at each side of the table, each com-

prising a lower member having a deep notch
in its upper end transverse to the table and
provided with webs at the sides of the notch,
an upper member of inverted-U shape, its
5 arms passing down between the arms of the
lower member and against opposite edges of
the webs, and a set-screw connecting the arms
of the upper member and passing through
said notch, a horizontal shaft journaled in
10 the two upper members, knives located there-

on, and means for rotating it, as and for the
purpose hereinbefore set forth.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature
in the presence of two witnesses.

WILAM H. ELLINGER.

Witnesses:

W. M. LIPPILL,
J. K. SWEENEY.