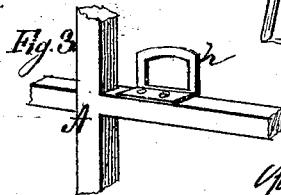
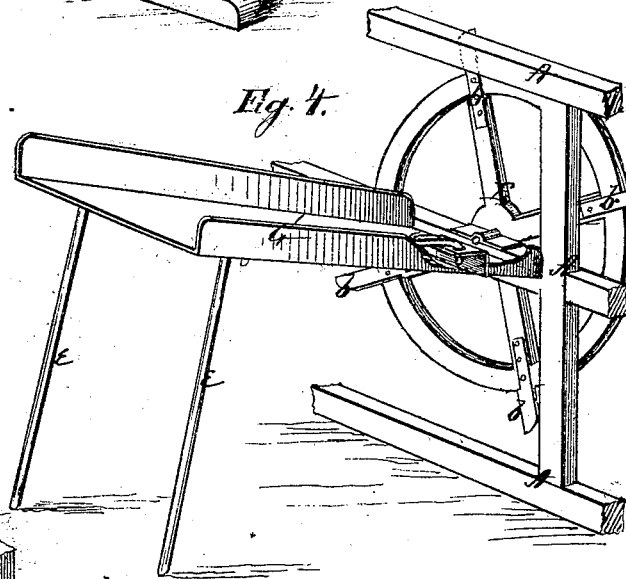
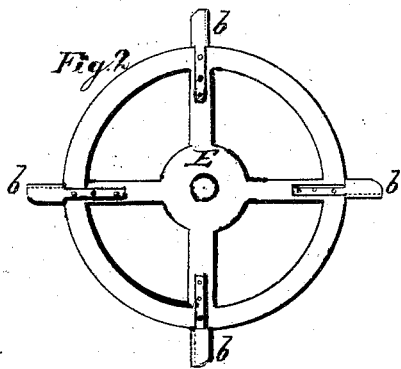
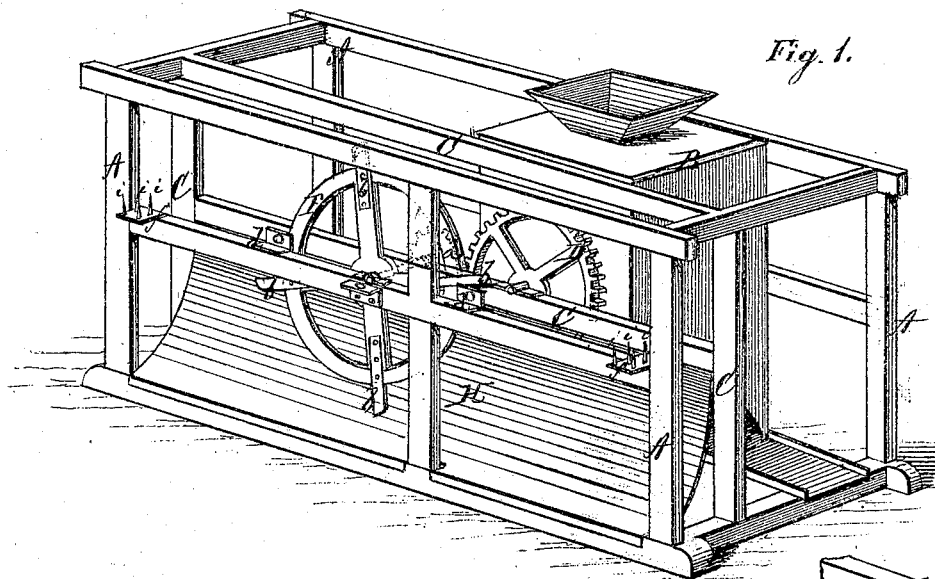


Corn Husker, &c.

Patented Nov. 8, 1870.



Witnessess
Admunt.
A. N. Mann
4

Inventor:
 J. Louis Howatson
 per Alexander Mason
 Atty.

United States Patent Office.

TOWER THOMASSON, OF CALHOUN, MISSOURI.

Letters Patent No. 109,157, dated November 8, 1870.

IMPROVEMENT IN CORN-HULLERS, SHELLERS, AND FEED-CUTTERS.

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, TOWER THOMASSON, of Calhoun, in the county of Henry and in the State of Missouri, have invented certain new and useful Improvements in Corn-Husker, Sheller, Hackler, and Feed-Cutter; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "combined corn-husker, sheller, hackler, and feed-cutter," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of the entire machine, with the table or platform removed;

Figure 2 is an enlarged side view of the wheel, with knives attached;

Figure 3 is a section showing the only alteration necessary to make a feed-cutter of the machine; and

Figure 4 is an enlarged section, showing the position of the table or platform.

A represents the frame of my machine, within which is placed the sheller B.

I have not deemed it necessary to represent any particular construction of the sheller, as it may be made in any of the known and usual ways.

Within the main frame A is another frame, C, dividing the frame longitudinally, in two spaces of unequal width, as shown in fig. 1, the sheller B being placed within the larger of said spaces.

Upon the inner end of the sheller-shaft is a cog-wheel, D, which gears with a pinion, *a*, upon a horizontal shaft, running across the entire frame A, in its center.

On this shaft, immediately within the frame A, and in the smaller space formed by the frame C, is secured a wheel, E, on the outer side of which are secured knives *b b*. These knives radiate from the center of the wheel and project a suitable distance beyond the rim of the wheel.

On the same side of the frame A as the wheel E, are secured two L-shaped irons *d d*, the upright portions of which have a hole through them, as shown in fig. 1.

These irons are placed one on each side of the wheel, in such a position that when the wheel revolves,

the knives *b b* will come close up to the inner sides of said irons.

Between the irons *d d*, on the same side of the frame A, is hooked a table or platform, G, supported by hinged legs *e e*, and which is to be used as a chute for the ears of corn. It is to be placed in an inclined position, so that the ears of corn will be forced toward the machine.

At each end of the frame A, on the same side as the above-mentioned devices, is a plate, *f*, provided with a number of upright sharp-pointed pins, *i i*, which forms a hackle for removing the husks.

The mode of operating the machine is as follows:

An operator stands on each side of the table G, opposite the irons *d d*. The corn in the husk is taken from the table G, and the large or butt end is put through the holes in the iron. The knives *b b* then cut off the end or hard portion of the husk, and the balance of the husk drawn through the hackler *f i*, when the loose ear of corn is thrown into the sheller B.

Under the wheel E, extending the whole length of the frame A, is a sloping apron, H, which throws out from the machine the butt end of the husk after it is cut off by the husker E *b*.

When it is desired to use the machine as a feed-cutter, the irons *d d* are removed, and other L-shaped irons *h* are substituted. These irons have an elongated slot in their upright portions, as shown in fig. 3, through which the straw, &c., is passed to be cut by the knives *b b*.

Having thus fully described my invention,

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

1. The wheel E, provided with knives *b b*, and used in combination with the irons *d d*, substantially as and for the purposes herein set forth.

2. The slotted iron *h*, constructed and arranged as described, in combination with the wheel E and knives *b b*, substantially as and for the purposes herein set forth.

3. The combination of the frame A, sheller B, wheel E, with knives *b b*, angular irons *d*, adjustable platform G, and sloping apron H, all constructed, arranged, and operating substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 29th day of July, 1870.

TOWER THOMASSON.

Witnesses:

J. R. DIGG,

W. H. GUTRIDGE.