

*J. Seibel,
Mower.*

No. 54,784

Patented May 15, 1866.

Figure 2.

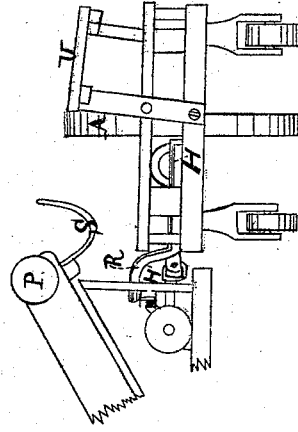
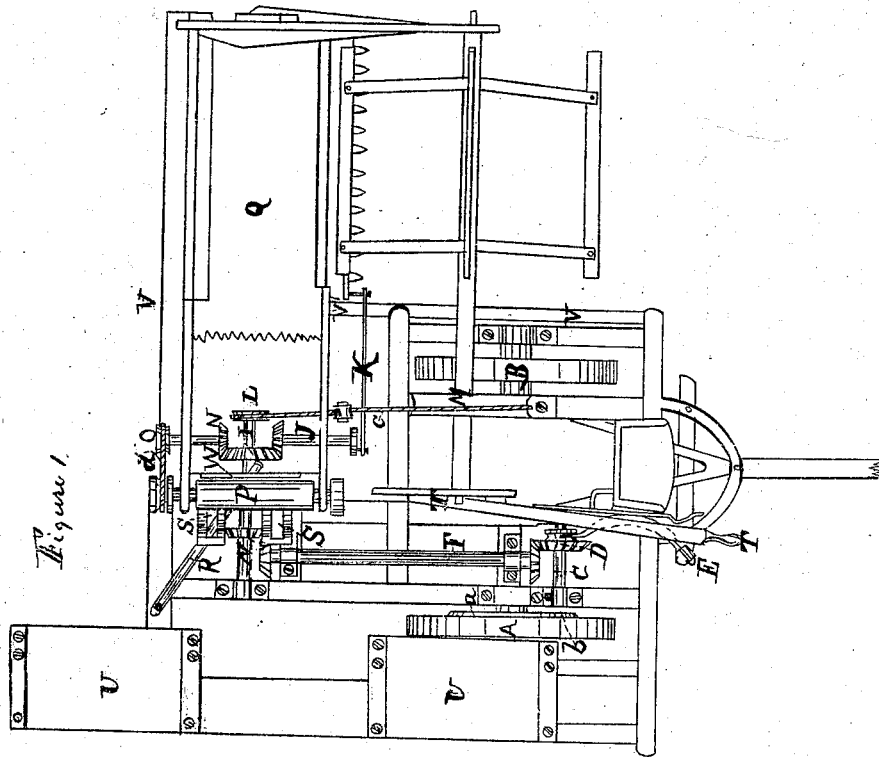


Figure 1.



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UNITED STATES PATENT OFFICE.

JACOB SEIBEL, OF MANLIUS, ILLINOIS.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 54,784, dated May 15, 1866; antedated May 1, 1866.

To all whom it may concern:

Be it known that I, JACOB SEIBEL, of Manlius, in the county of Bureau and State of Illinois, have invented a new and useful Improvement in Harvesters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and the letters and figures marked thereon, which form part of this specification.

The nature of my said invention consists in a novel and simple mode of connecting the platform upon which the grain falls with and supporting it upon the main frame of the machine, whereby the said platform may be raised or depressed or turned up from the end at pleasure by the operator.

To enable those skilled in the art to understand how to construct and use my invention, I will proceed to describe the same with particularity, reference being made in so doing to the aforesaid drawings, in which—

Figure 1 represents a plan or top view of my invention, and Fig. 2 a rear-end view of a part of the machine.

Similar letters of reference in the different figures denote the same parts of my invention.

A and B represent the main wheels which support the frame of the machine, A being the drive-wheel which imparts motion to the operative parts of the harvester, *a* representing an annular toothed rack attached to one side of the wheel A, which engages with a spur-wheel, *b*, upon the shaft C, upon which is arranged the spur or bevel wheel D, having an adjustable motion upon the said shaft, so as to be readily thrown in and out of gear with the bevel-wheel upon the shaft F by means of the lever E or any other suitable device. The bevel-wheel upon said shaft F engages with a similar wheel upon the shaft H, as shown, and thus the motion is transmitted from the drive-wheel A to the shaft H.

The bevel-wheel I upon the said shaft H revolves the shaft J, which, by means of the pitman K, operates the sickle. The same bevel-wheel I also revolves the shaft N, which, by means of suitable drums and the cord *d*, revolves the roller P, which operates the endless apron Q, which is broken away, as shown, so as to disclose the parts beneath.

By means of the drum L upon said shaft H and the band or cord *c* passing around the wheel M the reel is operated.

The said shaft H is provided with a joint at H' (shown in Fig. 2) for the purpose of allowing the platform supporting the endless apron, which is connected thereto, as shown, to be raised up at the opposite end when desired, and also to allow the front edge thereof to be elevated or depressed.

In addition to said shaft the said platform is supported upon the main frame by means of the curved bar R, one end of which is firmly fastened to the main frame and the other end passes beneath a semicircular bar, W, which is attached to the frame of the platform, as shown, thus suspending the said platform upon said bar R, which allows a free motion to said platform, it being thus hinged or connected with the main frame by a species of universal joint.

To facilitate and permit said free motion of the platform the supporting-bar V, which passes beneath the frame thereof, is provided with a joint at V', near or at the front edge of said platform, which allows a depression or elevation of the same. In raising and lowering of the said front edge of the platform and sickle-bar the lever T is used, which is rigidly attached to the frame of the platform, so that the operator, by raising or lowering the front end of said lever, readily effects the desired object, and said lever may readily be secured in a variety of modes in any position required.

SS represent two curved supports or cradles to catch the grain as it falls from the endless apron, provided with slots for the convenience of the binders, who stand upon a suitable platform and bind the grain into bundles, placing the bundles upon the tables U U, and when enough bundles have accumulated for a shock the tables are tipped up and the bundles discharged upon the ground.

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

1. The arrangement of the jointed shaft H with the two shafts J N, with their attachments, operating substantially as and for the purposes herein specified and shown.

2. Suspending the platform upon the main frame by means of the bar R and the bent support W, attached to the platform, all being arranged and operating as and for the purposes specified and shown.

JACOB SEIBEL.

Witnesses:

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