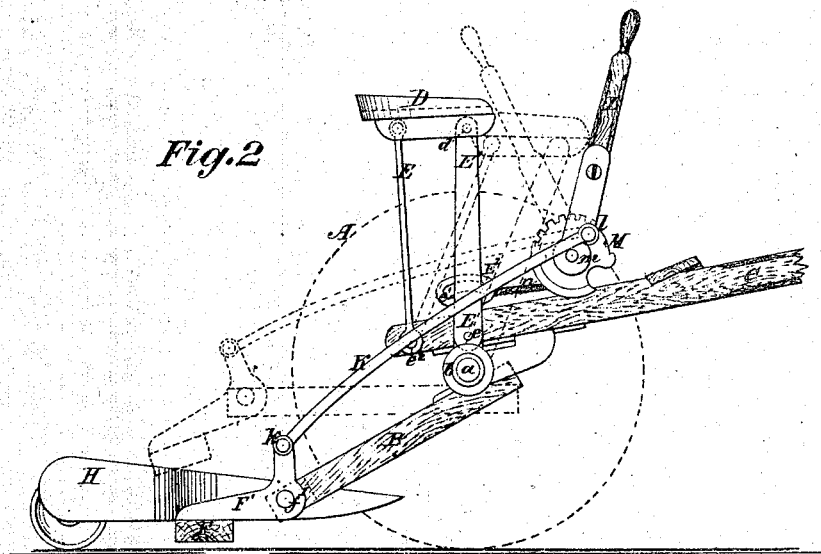
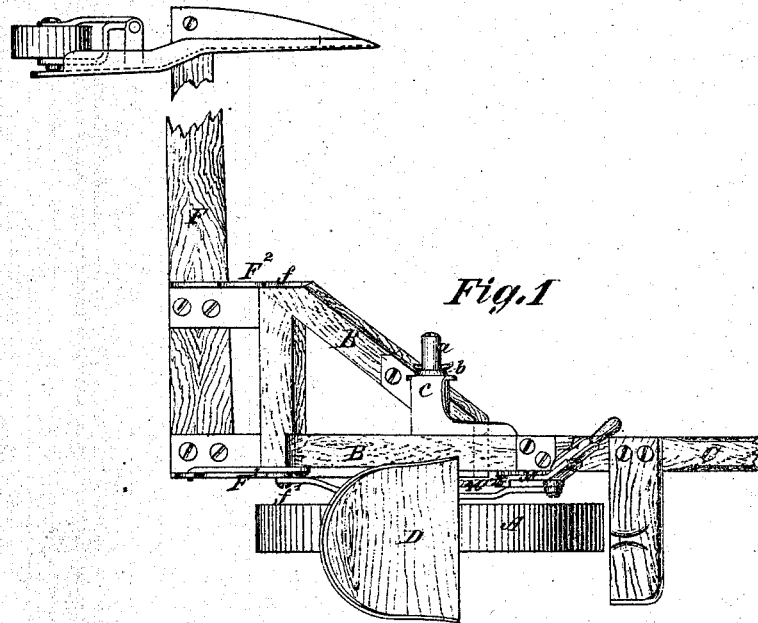


J. P. Manny.
Mower.

No. 112,361.

Patented Mar. 7, 1871.



Witnesses:-
Wm. H. Rowe
Joel Taylor,

Inventor:-
John S. Manny
by his atty
Wm. D. Baldwin

UNITED STATES PATENT OFFICE.

JOHN PELL'S MANNY, OF ROCKFORD, ILLINOIS.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **112,361**, dated March 7, 1871.

To all whom it may concern:

Be it known that I, JOHN PELL'S MANNY, of Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Harvesters, of which the following is a specification:

My invention relates more especially to the adaptation of the machine to use as a mower; and consists in certain improvements on the machine for which Letters Patent of the United States were granted to me, respectively numbered and dated 15,810, October 27, 1857, and 34,703, March 25, 1862.

In the accompanying drawing, Figure 1 is a plan view of my improved machine; and Fig. 2, an elevation of the gearing side of the same, with the driving-wheel shown in dotted lines.

The object of the invention herein claimed is to enable the machine to conform freely to undulations of the ground, and also to enable the driver simultaneously to rock the finger-beam and to lift it parallel with the ground.

In this instance, a driving-wheel, A, is shown as arranged outside the frame and fixed on a shaft, *a*, turning in a long bearing or pipe-box, *b*, fixed on a triangular frame, B, which carries suitable gearing. The box *b* forms trunnions, on which a bracket, *c*, turns freely. The tongue C is firmly secured to this bracket, and is free to vibrate up and down around the box *b*.

A seat, D, for the driver is pivoted to arms E E', and can be adjusted laterally by being made to slide on its forward pivot, *d*, and be held by a set-screw, or it may be adjusted laterally by a slot and set-screw.

The front arm, E', is pivoted at *e* to a standard, E², secured to the pipe-box *b*, and can be inclined backward or forward and held in the position desired by a slot, *e*¹, and a set-screw. The rear arm, E, is pivoted at *e*² to the tongue.

By this mode of construction the driver's seat is rocked backward and forward as the finger-beam is raised or lowered, being connected rigidly with the gear-frame B through the box *b*.

A finger-beam, F, has lugs F² F¹ projecting in front of its heel end, and pivoted to the rear end of the gear-frame by joints *f f'*. A caster-wheel, H, supports the divider end of the finger-beam. A link, K, is pivoted at *k* to an arm forming part of the lug F¹. The other

end of this link is pivoted at *l* to a lifting-lever, L, pivoted at *m* to a sector-rack, M, on the tongue. A cord, *n*, connects this lever with the standard which supports the front arm of the driver's seat.

In the operation of this device, the cutting apparatus may be held at a uniform height by a spring-detent on the lever L taking into the notches of the rack M, or by releasing this detent the cutting apparatus can freely conform to undulations of the ground.

To tilt and lift the cutting apparatus, the driver moves the lever L backward, thus both pulling the driver's seat forward by the cord *n* and lifting the gear-frame through the standard and pipe-box, but lifting the rear end of the gear-frame by the thrust of the link K.

With this device, when the horses are removed from the machine and the lever L moved forward, the link allows the tongue to drop upon the ground.

My machine is, of course, to be used with all the appliances of a fully-organized mowing-machine, which are too well known to require description.

The driver's seat might be fixed on the tongue, and yet the lifting devices would still operate well; but I prefer the construction I have shown.

I claim as my invention—

1. The combination of the driving-wheel, tongue, gear-frame, movable driver's seat, hinged finger-beam, grain-wheel, the link K, and the lever L in front of the axle, all these parts being constructed for joint operation, as set forth.

2. The combination of the tongue hinged to the main axle, the gear-frame vibrating on said axle, the finger-beam hinged to the gear-frame, the grain-wheel, the lifting-lever on the tongue, and the link-rod K, connecting the lever with a post on the finger-beam and crossing the joints of the tongue, the gear-frame, and the finger-beam, all these members being constructed and operating in combination substantially as described.

In testimony whereof I have hereunto subscribed my name.

JOHN P. MANNY.

Witnesses:

BALTIS DE LONG,
JOE I. PEYTON.