

J. W. Shuckers,
Mower.

No. 112,288.

Patented Feb. 28, 1871.

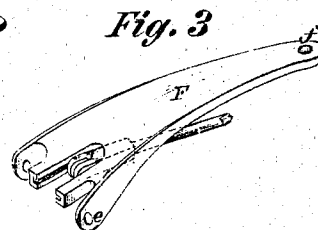
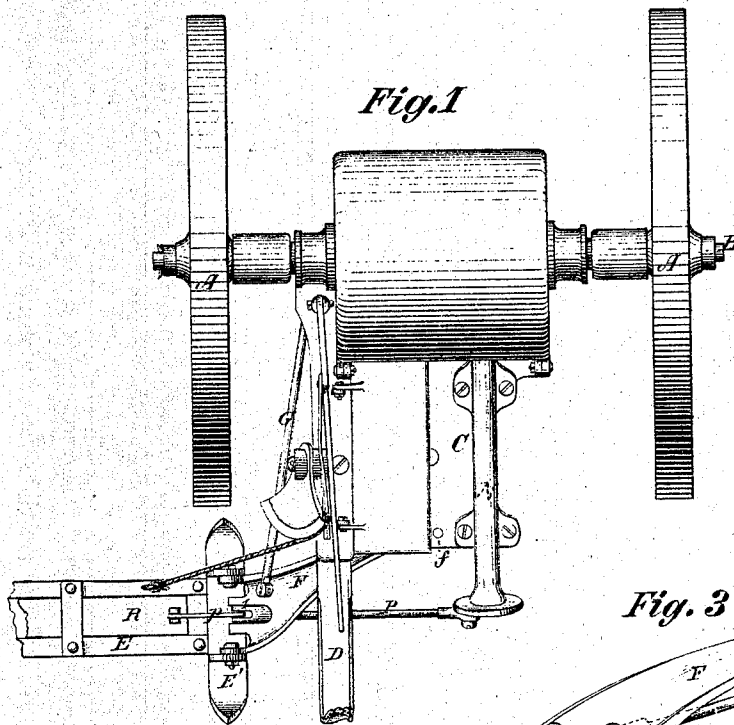
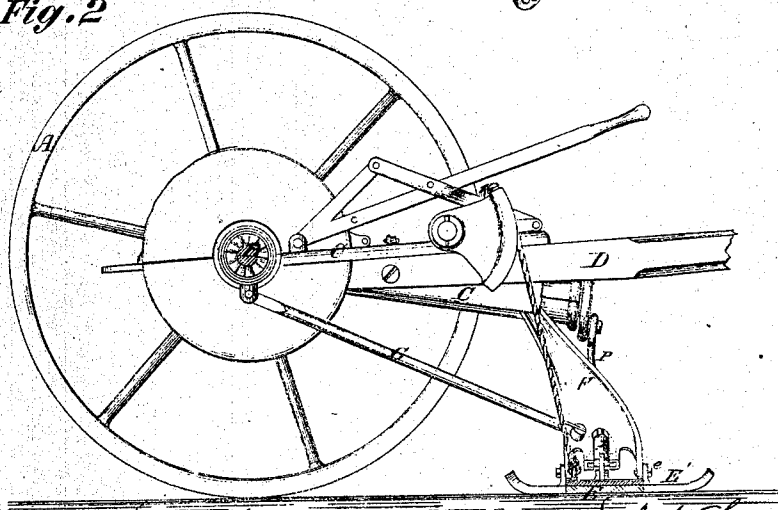


Fig. 2



Witnesses: { *W. S. R. R. R.*
Jackington } Inventor: { *J. W. Shuckers*
by his atty
Wm. L. Baldwin. }

UNITED STATES PATENT OFFICE.

JACOBS W. SCHUCKERS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
JONATHAN W. GRUBB, OF SAME PLACE.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **112,288**, dated February 28, 1871.

To all whom it may concern:

Be it known that I, JACOBS W. SCHUCKERS, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Harvesters, of which the following is a specification:

My invention relates to a novel method of connecting the pitman and cutters in two-wheeled hinged-joint harvesters, whereby the cutters will work at any angle to which the finger-beam may be inclined in passing over undulations of the ground; and the improvement herein claimed consists in combining a vibrating coupling-frame, a cutting apparatus hinged to said frame, a pitman working in a guideway in said frame, and a link-rod pivoted both to the pitman and cutter-bar, as hereinafter described.

My improvements are to be used in a fully-organized harvesting-machine. In the accompanying drawing, however, I have shown so much only of the mechanism as illustrates the invention herein claimed, the construction of the other parts being well understood by skillful builders of harvesting machinery.

Figure 1 represents a plan; Fig. 2, a side elevation of the machine; and Fig. 3, an enlarged view, in perspective, of the pitman-guide.

The driving-wheels A A are mounted on an axle, B, which carries a main frame, C. The tongue D projects from the front of the frame. A finger-beam, E, is secured to a shoe, E', having lugs upon it, by means of which it is pivoted to the lower end of a coupling frame

or arm, F, the upper end of which is swiveled to the under side of the frame at *f*. A brace-bar, G, is pivoted at one end to the frame, and at the other to the coupling-arm.

A crank-shaft, N, driven by proper gearing, operates the pitman P, the lower end of which carries a pin, 1, or cross-head, which slides in a groove. A link-rod, *p*, is pivoted at one end to this pitman, and at the other to the cutter-bar R.

By this mode of construction the pitman always reciprocates in a uniform path, while the link-rod *p* swings around its pivoted connection with the pitman in conformity with the swinging of the finger-beam around its pivots *e*, and the cutters will continue to run without binding at any inclination to which the outer end of the finger-beam can be raised or lowered in running over uneven ground.

I claim as my invention—

The combination of the coupling-frame, the finger-beam hinged thereto, the pitman working in a guide in the coupling-frame, the cutter-bar, and the link-rod pivoted both to the pitman and cutter-bar, all these parts being constructed and operating as described, to insure the working of the cutters at varying inclinations of the finger-beam, as set forth.

In testimony whereof I have hereunto subscribed my name.

JACOBS W. SCHUCKERS.

Witnesses:

A. H. PIERSON,
DANIEL H. PIERSON.