W. W. EDGARTON.

MOWERS.

No. 193,697. Patented July 31, 1877.

Fig. 1.

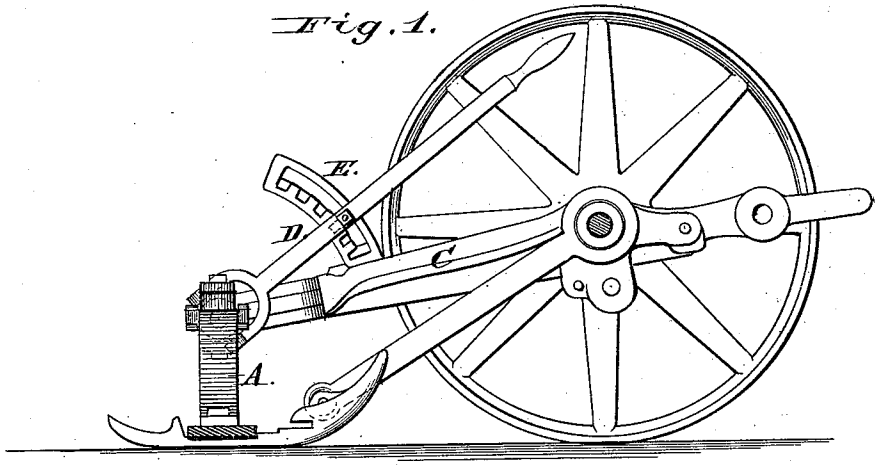


Fig. 2.

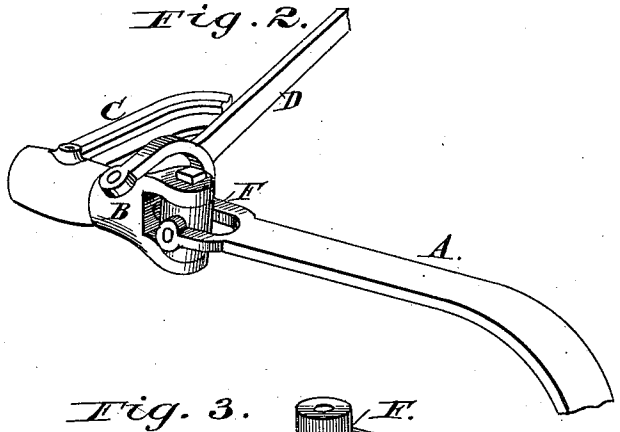
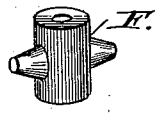


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM W. EDGARTON, OF BOUCKVILLE, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO HARVEY L. HOPKINS, OF MANCHESTER, IOWA.

IMPROVEMENT IN MOWERS.

Specification forming part of Letters Patent No. **193,697**, dated July 31, 1877; application filed May 5, 1877.

To all whom it may concern:

Be it known that I, WILLIAM W. EDGARTON, of Bouckville, in the county of Madison and State of New York, have invented a new and useful Improvement in Harvesters, of which the following is a full, clear, and exact description:

This invention relates more especially to a mowing-machine such as described in United States Letters Patent No. 121,784, granted to Harvey L. Hopkins, December 12, 1871.

In practice it was found that the swivel-joint provided for the rocking of the cutting apparatus was not sufficiently flexible to admit of the folding or turning up of such cutting apparatus without severe strain on the joints, unless they were made too loose for practical work, and it was almost an absolute necessity to tilt the cutting apparatus forward by rocking the swiveling-bolt before it could be folded.

To remedy these difficulties I have improved the mechanism by the introduction of a universal joint between the arm or coupling-arm of the cutting apparatus and the swiveling-bolt through which the cutting apparatus is rocked.

In the annexed drawings, Figure 1 is a sectional elevation of part of a harvester. Figs. 2 and 3 are detail perspective views in illustration of my invention.

The same letters of reference indicate like parts in all the figures.

A refers to the stiff arm or coupling-arm by which the cutting apparatus is connected to the swiveling-bolt B, which turns in a bearing of the frame C, its axis being in line with said arm, so that, by turning said bolt, the cutting apparatus can be rocked. The bolt is controlled by a lever, D, which can be locked at any required point in its sweep on a segmental rack, E, by a spring-latch, or in any other preferred manner, to cause the cutter-bar to cut high or low, as may be required.

To admit of the oblique folding of the cutting apparatus without unduly straining the joints between the swiveling-bolt and the stiff coupling-arm, and without requiring a previous rocking of the cutting apparatus, I connect the swiveling-bolt and the coupling-arm by a universal joint, formed, in this example, by the box F turning on a longitudinal axis in the fork of the swiveling-bolt, and by transverse journals connected to the fork of the coupling-arm, as clearly shown.

It is obvious that the construction of the universal joint may be modified without a departure from the principle of my invention.

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

The combination, substantially as specified, of the coupling-arm of the cutting apparatus, the swiveling-bolt arranged in line therewith, the lever controlling said bolt, and the universal joint intermediate between the coupling-arm and the swiveling-bolt.

In testimony whereof I have signed my name to the foregoing specification in the presence of two subscribing witnesses.

WM. W. EDGARTON.

Witnesses:

JOSEPH W. FORWARD,

DE WITT D. FORWARD.