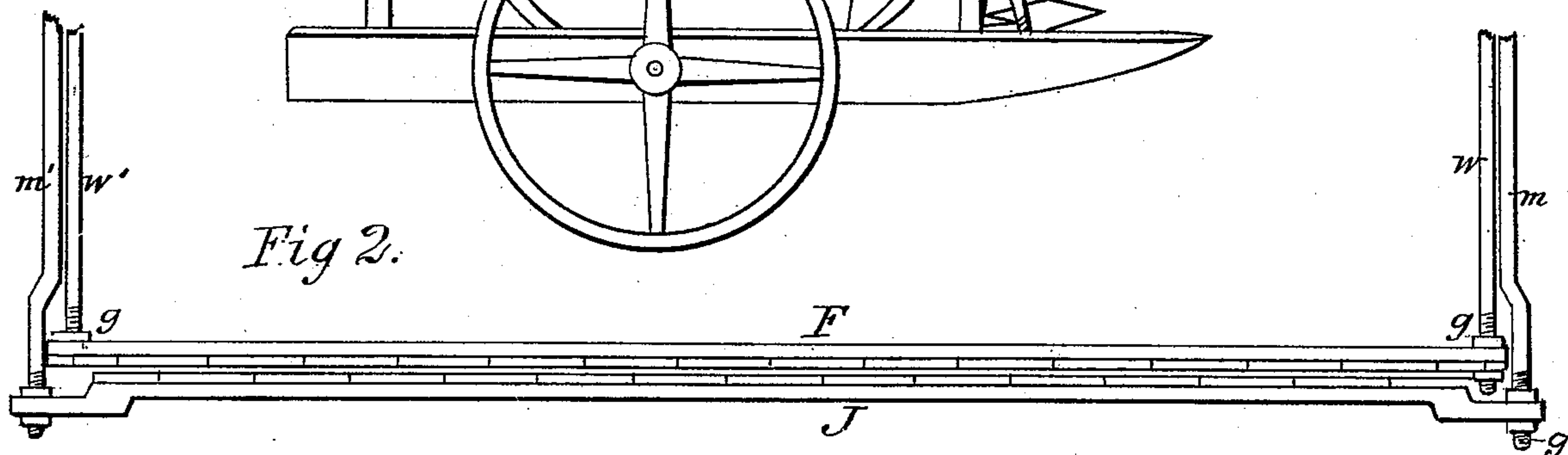
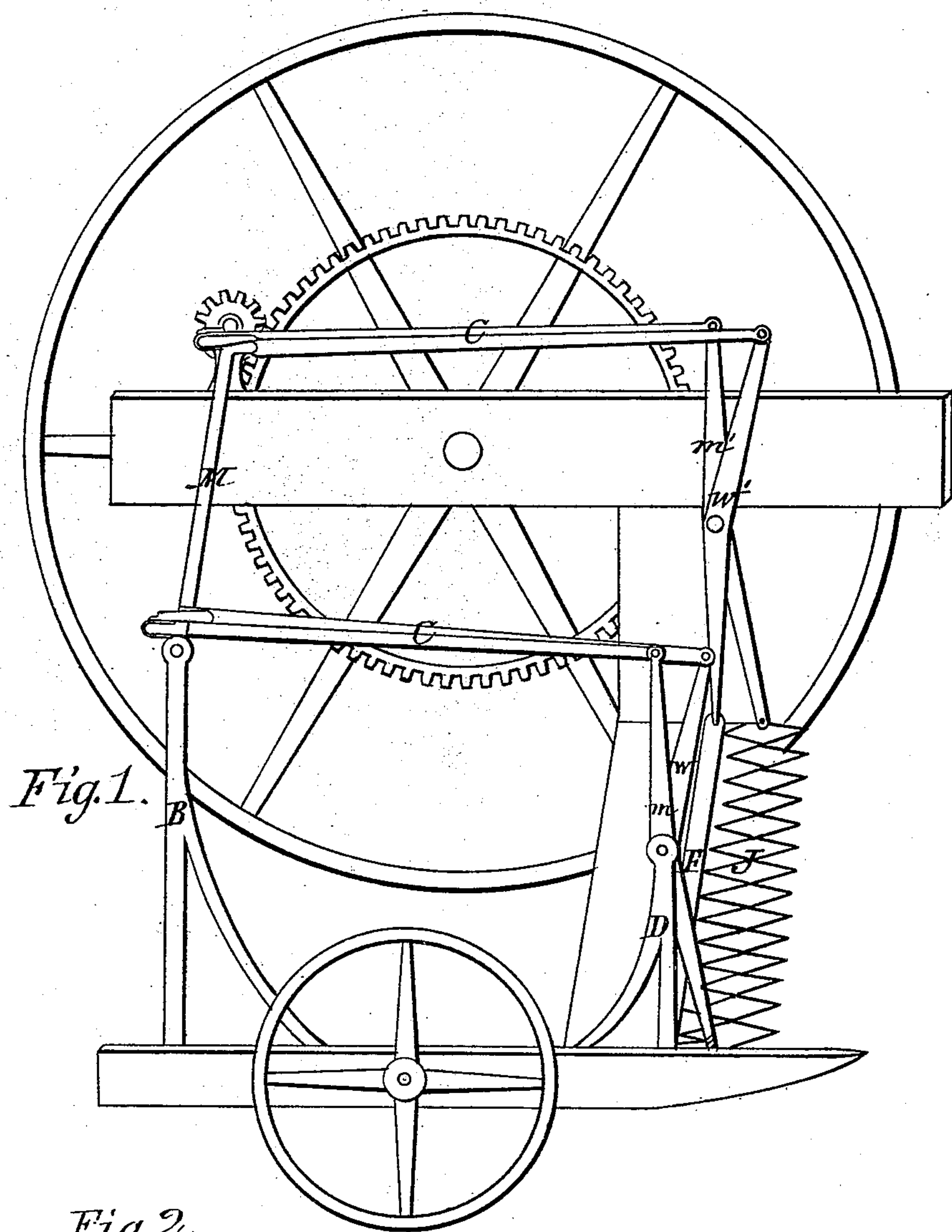


H. CLARK.
Mowing Machine.

No. 16,788.

Patented March 10, 1857.



UNITED STATES PATENT OFFICE.

HIRAM CLARK, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 16,788, dated March 10, 1857.

To all whom it may concern:

Be it known that I, HIRAM CLARK, of Rochester, in the county of Monroe and State of New York, have invented a new and Improved Mode of Operating Cutter-Bars in Harvesters; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view. Fig. 2 is a view of the rear side of the cutter-bars F and J.

The nature of my invention consists in the arrangement of two cutter-bars in harvesters in such a manner as to give each of them an advancing upward and a withdrawing stroke alternately.

To apply my invention it is only necessary to fix permanently to the frame of harvesters the standard B for the support of one end of the crank-shaft M, also the standard D for the support of the pendulums *m* and *w*. The axis of *m'* and *w'* is fixed to the frame of the machine. The cutter-blades are diamond-pointed, and are attached to the bars F and J by screws or otherwise. The pendulums *m* and *m'* carry the cutter-bar J, and *w* and *w'* carry the bar F. The pendulum-bars *m* and

w and *m'* and *w'*, as shown in Fig. 2, pass through the ends of the cutter-bars, where they are secured by means of the set-nuts *g*, and there being a nut above and one below, the said bars F and J may be elevated or depressed as desired. The shaft M is driven by the pinion and the spur-wheel seen in Fig. 1, and the connecting-rods C work the pendulum-bars *m* and *w* and *m'* and *w'*. Said bars at the lower end move forward from a vertical line, thus producing the upward or lifting stroke, and at the same time more or less of a shearing cut, in consequence of the points of the cutters on the bar J working intermediately between those of the cutters on the bar F. The object of the upward advancing stroke is that it meets with less resistance from the standing grain or grass than any other.

I do not claim double cutter-bars, nor an advancing and withdrawing stroke; but

I do claim—

Giving to each of the cutting-bars alternately an advancing upward stroke against the grain, as herein specified.

HIRAM CLARK.

Attest:

D. R. BARTON,
JOHN PEIRSON.