J. J. DEWEY.

HARVESTER-REEL.

No. 190,013. Patented April 24, 1877.

Fig. 1.

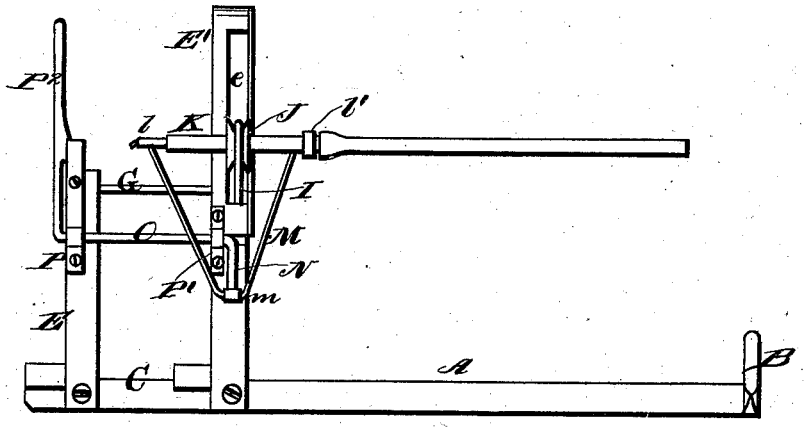
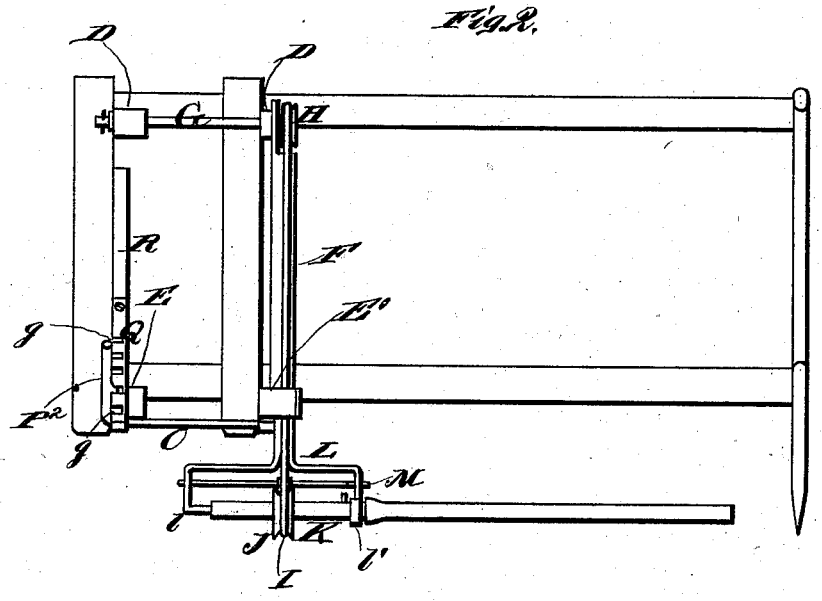


Fig. 2.



WITNESSES

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JOHN J. DEWEY, OF RED WING, MINNESOTA.

IMPROVEMENT IN HARVESTER-REELS.

Specification forming part of Letters Patent No. **190,013**, dated April 24, 1877; application filed February 10, 1877.

To all whom it may concern:

Be it known that I, JOHN J. DEWEY, of Red Wing, in the county of Goodhue and State of Minnesota, have invented a new and valuable Improvement in Harvester-Reels; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my harvester-reel, and Fig. 2 is a plan view thereof.

The object of this invention is to provide simple and reliable means for raising and lowering harvester-reels, so as to conform to the height and condition of the grain.

This object I accomplish by the following devices, constructed and combined as hereinafter particularly set forth and claimed.

In the annexed drawings, A designates the grain-platform of a harvester, and B a grain-divider, secured to the outer end of said platform, and shaped in the usual manner. C designates the main frame of the harvester, to one side of which frame said grain-platform A is attached. On said frame C are two rear standards, D D′, and two front standards, E E′. Standard E′, the nearer of the latter pair to grain-platform A, is taller than any of the other standards, and slotted vertically at *e*, to allow the vertical vibration of a reel-supporting bar, F. Said bar is pivoted at its rear end on shaft G, which is journaled in the upper ends of rear standards D D′, and which receives rotary motion from the main transporting-wheel of the machine through suitable gearing. Said shaft G carries a grooved pulley, H, which communicates rotary motion through endless chain I to a grooved pulley, J, on reel-shaft K, extending horizontally above and in front of said grain-platform A in the usual manner. Said reel-shaft is journaled in bearings *l l′* on the forwardly-extending ends of a Y-shaped metal bar, L, the middle part of which is secured to the free front end of vibrating bar F. Said bar L is supported on a V-shaped metal rod or brace, M, the lower converging part *m* of which is pivoted to the end of a crank-arm, N, on a crank-shaft, O, which is journaled in bearings P P^1 on the front of standards E E′. The other end of said shaft O is provided with an operating lever or handle, P^2, which is adapted to catch into notches *q q* on the edge of a curved rack or locking-plate, Q, secured to said standard E, and to an inclined brace, R, for the same. Said brace is secured at its upper end to said standard E, and at its lower end to said main frame C. Said rack or locking-plate Q is made in one piece with bearing-plate P^1. Said parts N, O, and P^2 are all in a single piece. By turning handle or lever P^2 backward the reel is raised. By turning it forward the reel is lowered. In this way its position is made to conform to the height or inclination of the standing grain.

By slotting the rear end of reel-supporting bar F said reel may be made adjustable forward and backward, besides being vertically adjustable, as hereinbefore described. In all its vertical vibratory adjustments the chain I is kept taut, so as to operate properly.

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

The Y-shaped metal bar L, having journal-bearings *l l′*, V-shaped brace M, and crank-shaft O, in combination with the vertically-vibrating reel and its operating mechanism, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN J. DEWEY.

Witnesses:
F. M. WILSON,
J. A. MCCLURE.