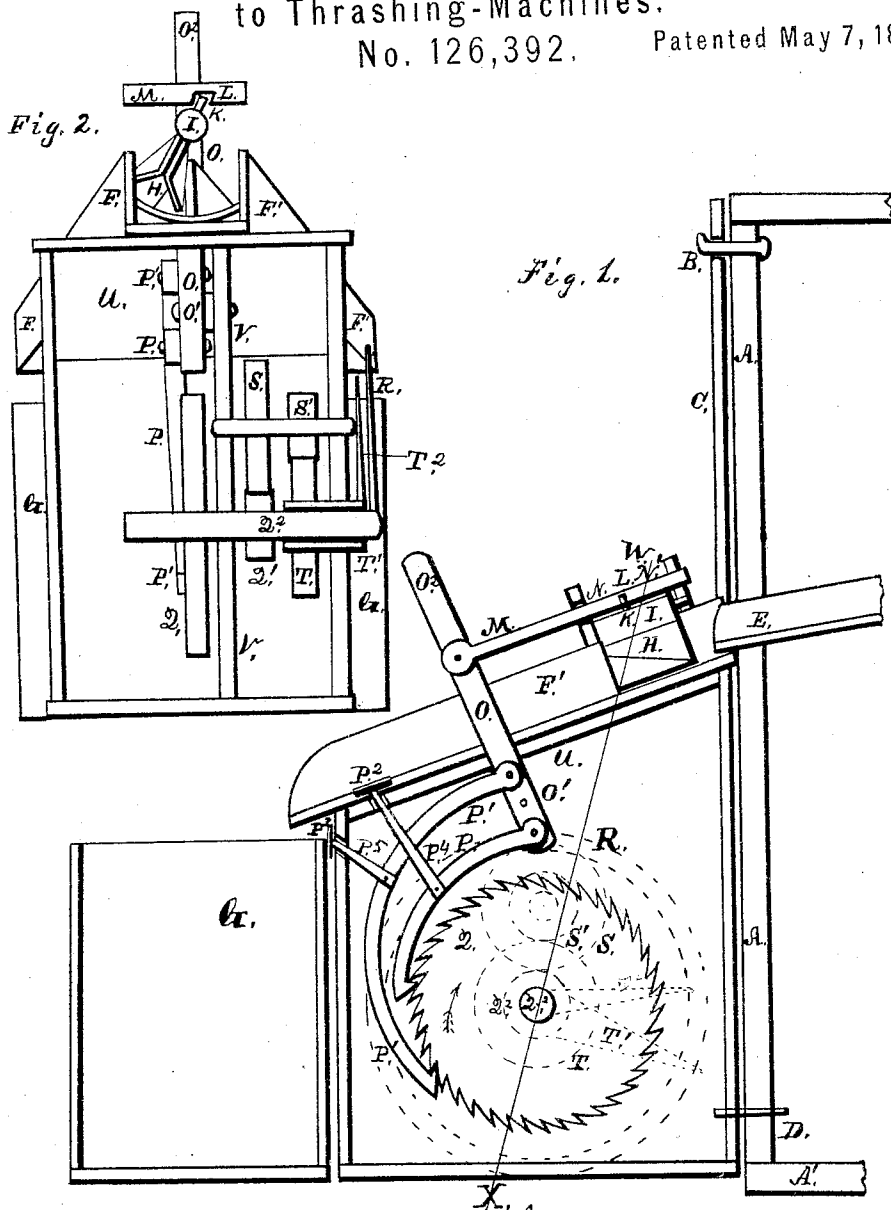


J. HEMINGWAY.  
Improvement in Grain-Measuring Attachment  
to Thrashing-Machines.  
No. 126,392.      Patented May 7, 1872.



Witness:

Inventor:

J. A. Pichon  
S. T. Marshall

Josiah Hemingway,  
By Saml. J. Wallace,  
attorney

# UNITED STATES PATENT OFFICE.

JOSIAH HEMINGWAY, OF BURNSIDE, ILLINOIS.

IMPROVEMENT IN GRAIN-MEASURING ATTACHMENTS TO THRASHING-MACHINES.

Specification forming part of Letters Patent No. 126,392, dated May 7, 1872.

*To all whom it may concern:*

I, JOSIAH HEMINGWAY, of Burnside, Illinois, have made a new and useful Improvement in Thrashing-Machines, of which the following is a specification:

This invention relates to the ordinary styles of machines for thrashing grain; and it consists in an apparatus for the purpose of assisting in the leveling of the machine when setting it, instead of being compelled to provide and use a spirit-level; and in an apparatus to be attached thereto during thrashing to enable the grain as it runs out to be readily changed from one half-bushel measure to the other when full, and indicating the number of such changes for ready inspection. It is made as set forth hereinafter, referring to the accompanying drawing, in which—

Figure 1 is a section of the apparatus on one side of the thrasher; and Fig. 2, a cross-section of same.

The side of the thrasher A has a hook at B near the top, and on this is hung the part C, as shown in Fig. 1. At the bottom of the thrasher is made a mark, so arranged that when the two ends of the thrasher are level, as required in thrashing, the side of the lower end of C will just hang to this mark and indicate the fact. The part C when the thrasher is running, is secured in place by the pin D put through its lower end into the side of the main frame A; and the part C is arranged so that the spout for the delivery of the grain E will pass through a hole in part C. On the lower end of C is a bifurcated or two-way spout, F F', into which the grain runs from spout E, and from which the grain runs into the two half-bushel or other measures G G'. At the point of division of this spout is a part, H, which swings from side to side on a pivoted axle, I, and is formed so that it turns the grain to either side as it may be set, so that the grain will go into the measure on that side. This is turned from side to side as each measure is filled in this way. The part K is a pin projecting upward from axle I, and is actuated by a slot, L, in part M, which has a motion as from point N to N', the slot being diagonal to the line of motion, so as to move part K back and forth with the motion of part M. The part M is moved by a lever, O, which is pivoted at O<sup>1</sup>, and has the handle O<sup>2</sup> to move it

by. The number of such changes are indicated by the apparatus in this way: To the lever O is attached two parts, P P<sup>1</sup>, which act as pawls on the wheel Q, acting alternately by the movement of the lever, so that each motion back or forth will move the wheel one cog or tooth toward a revolution. The axle of wheel Q carries a pointer outside of a dial-face, R, which bears figures indicating the number of motions and measures. These parts P P<sup>1</sup> have springs P<sup>2</sup> P<sup>3</sup>, to hold them on to the wheel by the parts P<sup>4</sup> P<sup>5</sup> from the parts P P<sup>1</sup> and the springs. This arrangement can be made to indicate any number of measures according to the number of teeth to the wheel. But to indicate a higher number the axle of wheel Q bears a pinion-wheel, Q', which connects with a wheel, S, of a greater number of teeth, and which on its axle bears another pinion S', that turns a larger wheel, T, which is mounted by a sleeve, T<sup>1</sup>, on the axle of wheel Q, in such a way that this sleeve may bear another pointer, T<sup>2</sup>, over the dial-face to indicate after the manner of clock-dials and hands, the number of revolutions of wheel Q. The several wheels are or may be inclosed in a box attached to the lower end of part C for protection. The part C can be taken from its point of suspension when not in use or when moving.

I claim—

1. In combination with a thrasher-frame, A, the part C arranged to swing on a pin, B, to indicate when the machine is level, substantially as set forth.

2. The combination of part C with spout E of a thrashing-machine, the lever O, and parts K, L, M, and H, for changing the direction of the grain, as described.

3. In combination with the lever O, and parts K, L, M, and H, constructed as described, a register for indicating the amount of grain measured, the ratchet-wheel Q, and curved pawls P P<sup>1</sup>, substantially as set forth and described.

4. In combination with the lever O, parts K, L, M, and H, constructed as described, the two-way spout F F', as and for the purpose specified.

JOSIAH HEMINGWAY.

Witnesses:

SAML. J. WALLACE,  
ERIE J. LEECH,