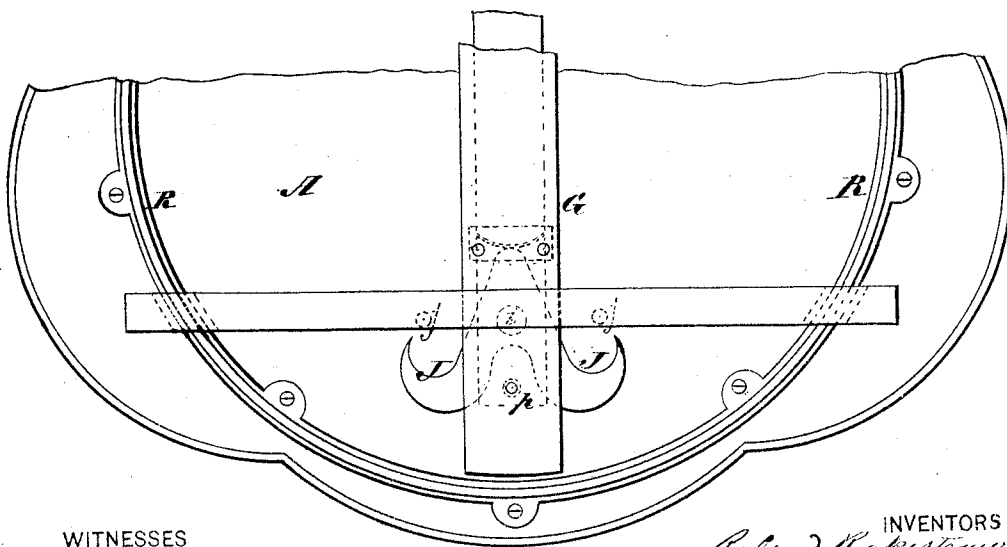
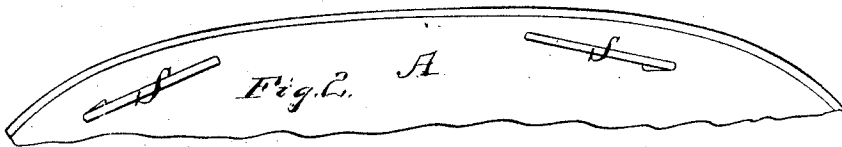
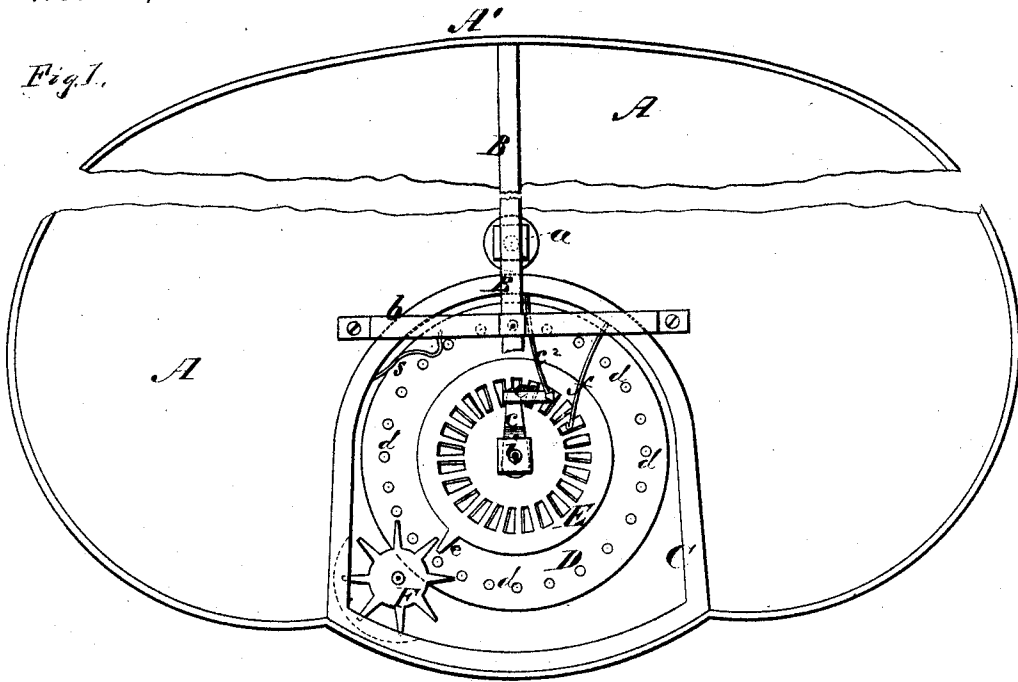


**R. RAKESTRAW & E. O. SWIFT.**  
**Grain-Tallies.**

No. 151,621.

Patented June 2, 1874.

*Fig. 1.*



WITNESSES  
*E. H. Bates.*  
*George C. Upham.* By

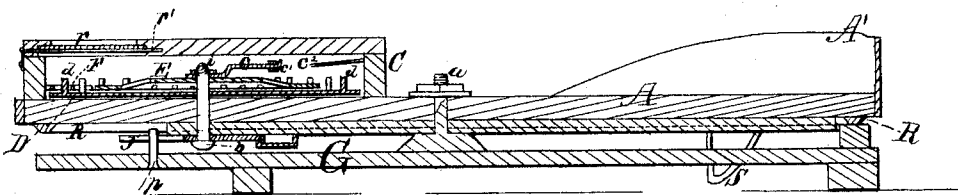
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*Fig. 3.*



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# UNITED STATES PATENT OFFICE.

ROLAND RAKESTRAW AND EBENEZER O. SWIFT, OF WYOMING, ILLINOIS.

## IMPROVEMENT IN GRAIN-TALLIES.

Specification forming part of Letters Patent No. **151,621**, dated June 2, 1874; application filed November 1, 1873.

*To all whom it may concern:*

Be it known that we, ROLAND RAKESTRAW and EBENEZER O. SWIFT, of Wyoming, in the county of Stark and State of Illinois, have invented a new and valuable Improvement in Grain-Registers; and we 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 plan view of our grain-register. Fig. 2 is a top view of the same. Fig. 3 is a sectional view.

This invention has relation to devices for removing grain, oats, and other cereals from thrashing and other machines, and at the same time measuring the quantity removed therefrom. The nature of our invention consists in an oscillating platform, which is provided with a lever for conveniently moving it, and which is constructed with a closed case containing a registering apparatus, which will indicate the number of oscillations given to the platform, as will be hereinafter explained.

The following description of our improvement will enable others skilled in the art to understand it.

In the annexed drawings, A represents a horizontal platform of an elliptical shape, which is provided with a rim, A', extending along one edge, and sloping from the middle of its length to its ends. This platform is connected by a vertical pivot, *a*, to a foundation, G, of T shape, and it is supported on this foundation by means of a circular rail, R, and rollers and slides. The oscillation of this platform is limited to a semicircle by means of two stops, S S, which strike the cross-bar of the foundation G at each full stroke of the platform. On top of the platform, and at the middle of its length, is an inclined hand-lever, B, which is supported by means of a bail, *b*, and used for giving oscillation to the platform. Beneath the lever B is a case, C, provided with a window, *r*, across which is stretched a wire, *r'*. Inside of this case C are three registering-wheels, D E F. The wheels D and E

are allowed to turn freely in one direction around a stud, *i*, which passes vertically through the platform A, and has keyed to its lower end a lever, J, having two horns formed on one end. The length of vibration of this lever J is limited by two stop-pins, *j j*, and it is vibrated by means of a striker, *p*, on the T support of the platform. The wheel D has a concentric circle of studs, *d*, rising from it, and arranged at even distances apart, which studs indicate, say, twenty-five bushels each, and are so marked off. The wheel E, which is smaller than the wheel D, is marked off, say, from one to twenty-five, each mark indicating one bushel, and when this wheel completes one revolution a tooth, *e*, on its periphery will strike one of the spurs on the wheel F, and turn the wheel D the distance of one stud, *d*, thus registering twenty-five bushels. The wheel E receives an intermittent rotary motion from a pawl, *e'*, on the end of an arm, *e*, which is keyed on the upper end of the stud *i* of the lever J. The pawl *e'* engages with teeth on wheel E, and is held in contact with these teeth by means of a spring, *e''*. A spring-stop, *f*, also engages with said teeth and prevents wheel E from turning backward.

It will be seen from the above description that grain can be conveniently moved away from a thrashing-machine in bushel-baskets, or in baskets of any other capacity, and at the same time a correct register of the number of baskets, or amount of grain, will be kept by the wheels inside of the case C.

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

The oscillating platform supported horizontally and provided with stops S S, in combination with a lever, J, striker *p*, and registering-wheels D E F in a case, C, as and for the purposes set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

ROLAND RAKESTRAW.  
EBENEZER O. SWIFT.

Witnesses:

CHRISTOPHER COLLIER,  
AUGUSTUS G. HAMMOND.