

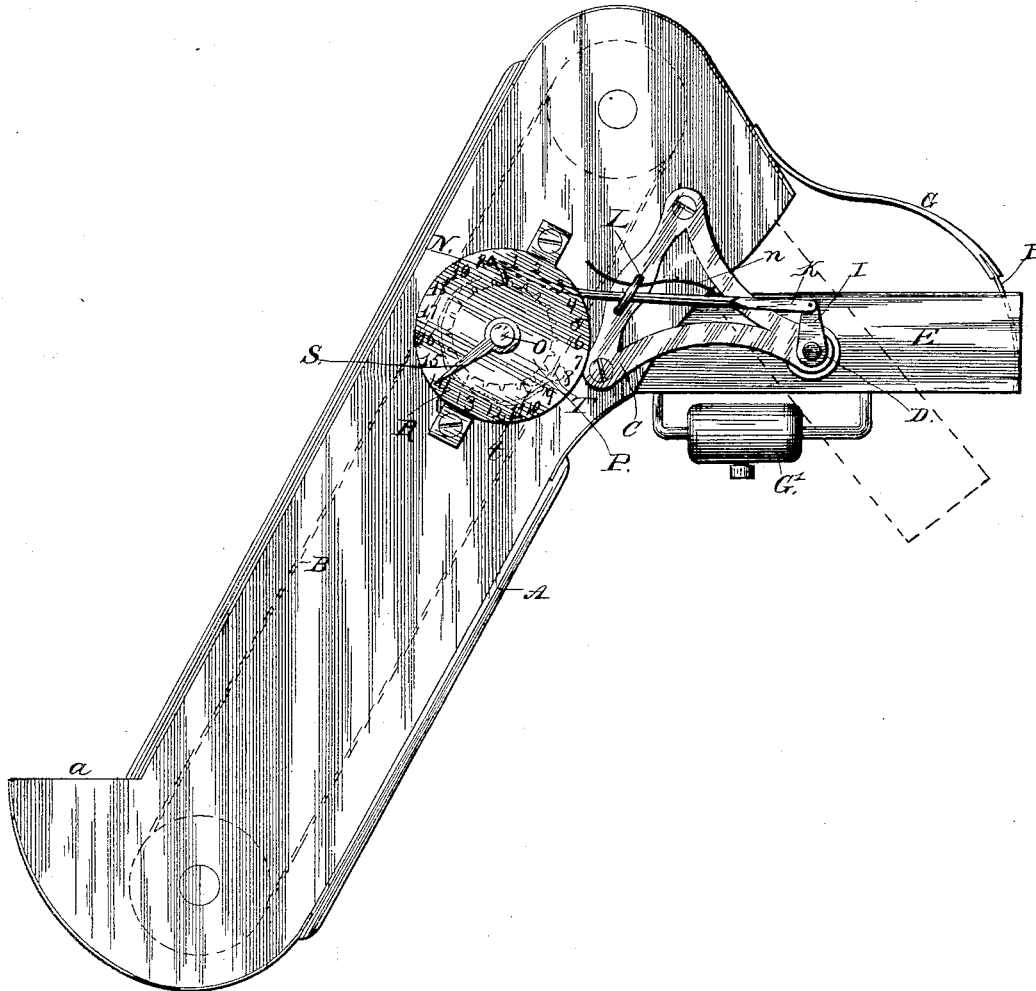
(No Model.)

W. LOONEY.

AUTOMATIC GRAIN MEASURE.

No. 348,287.

Patented Aug. 31, 1886.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM LOONEY, OF OXFORD, INDIANA.

AUTOMATIC GRAIN-MEASURE.

SPECIFICATION forming part of Letters Patent No. 348,287, dated August 31, 1886.

Application filed April 9, 1886. Serial No. 193,323. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LOONEY, a citizen of the United States, residing at Oxford, in the county of Benton and State of Indiana, have invented certain new and useful Improvements in Automatic Grain-Measurers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to grain measuring and tallying machines, and the device is intended to automatically measure the grain and register such measurement; and to these ends the novelty consists in the construction, combination, and arrangement of the parts of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

The figure in the drawing is a side elevation of my improved grain-measurer as it appears in operation.

A is a casing provided with an internal elevator-belt, B, of the usual form.

C is a bracket secured to the front side of the case A, and it and a similar bracket on the opposite side of the case support a shaft, D, to which is rigidly secured a box, E, so that said box may tilt on said shaft, as indicated in dotted lines in the drawing, and F is a door rigidly secured to the arm G attached to the frame, and said door is so arranged with reference to the box E that it completely fills up its outer end when the box is in its normal position, and when the box is tilted, as shown in dotted lines, the door remaining stationary, the grain slides or is dumped out into any suitable receptacle, and the box is made to resume its normal position by means of the adjustable counter-balance G', secured to the rod H. Upon one end of the shaft D is rigidly secured a crank, I, having a pitman, K, passing through a guide, L, and terminating in a

pawl, N, and *n* is a spring secured to the pitman K, and likewise passing through the guide L, so as to press the pitman downward.

O is a shaft, provided with a ratchet or toothed wheel, P, located between the dial R and the case A, and secured to said shaft on the outside of the dial is an indicator-hand or pointer, S, and T is a pawl operated by a spring, *t*, which serves to retain the wheel P in position, and it will readily be seen that every time the box E is dumped the pitman K will engage a tooth on the wheel P and move the pointer S forward one point, thus registering each movement of the box. If the box E be equal in capacity to one bushel, then the indicator reads bushels.

In operation, the grain enters the mouth *a* of the case A, and is carried up by the elevator-belt and discharged into the box E, which, when full, overbalances itself and tilts or dumps the grain at the same time the crank, pitman, and indicator register the movement, as above set forth. Of course the box E may be of any known capacity, and the indicator made to register any number of measurements without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. The combination, with the tilting-box E and rigid door F, of the crank I, pitman K, and spring *n*, and dial R, hand S, and toothed wheel P, as and for the purpose set forth.

2. The combination, with the tilting box E, provided with the adjustable counter-balance G' and crank I, of the rigid door F, the pitman K, having ratchet N and spring *n*, and the dial R, having toothed wheel P, hand S, pawl T, and spring *t*, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM LOONEY.

Witnesses:

WILL R. WOOD,
JOHN P. ROSS.