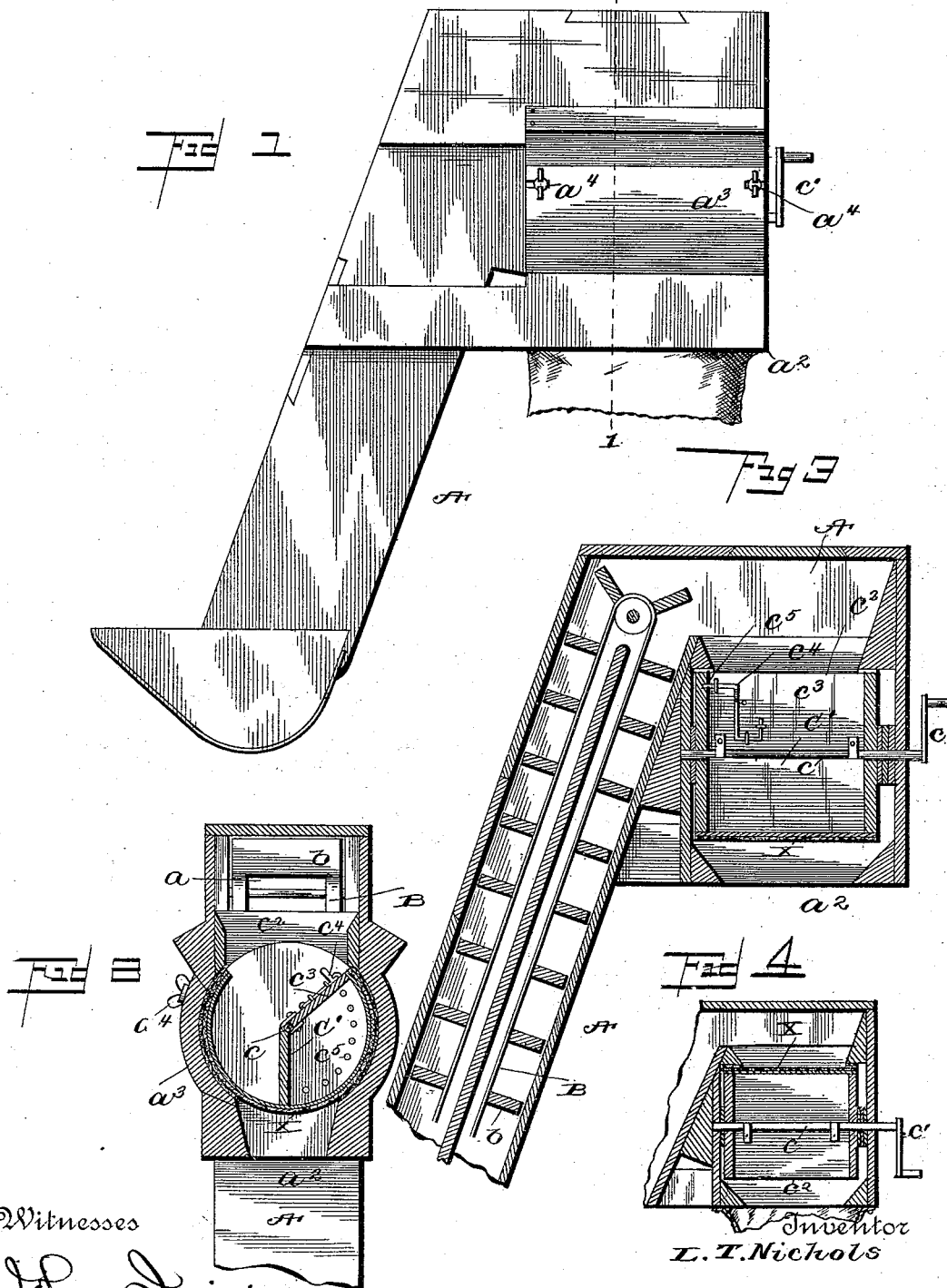


(No Model.)

L. T. NICHOLS.  
ROTATING MEASURING VESSEL.

No. 491,064.

Patented Jan. 31, 1893.



Witnesses

John Smirre  
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By his Attorney

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L. T. Nichols

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# UNITED STATES PATENT OFFICE.

L. T. NICHOLS, OF WEST CONCORD, MINNESOTA.

## ROTATING MEASURING-VESSEL.

SPECIFICATION forming part of Letters Patent No. 491,064, dated January 31, 1893.

Application filed September 25, 1891. Serial No. 406,836. (No model.)

*To all whom it may concern:*

Be it known that I, L. T. NICHOLS, a citizen of the United States, residing at West Concord, in the county of Dodge and State of Minnesota, have invented certain new and useful Improvements in Sacking and Measuring Attachments for Thrashing-Machines; and I do hereby 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.

Figure 1 is a side elevation of an elevator of a thrashing machine having my present invention attached to it. Fig. 2 is a cross-section of the sacker and measurer attached to it. Fig. 3 is a longitudinal section of the sacker and measurer. Fig. 4, is a detail showing the cylinder as in position when discharging the grain into a sack.

This invention is an improvement on thrashing machines, and the novelty consists in providing the elevator spout or discharge end with a measuring and delivering cylinder; and in so covering said cylinder and lining the casing about it that there cannot be any leakage of grain at these points; and in constructing and adapting the delivery and measuring cylinder so that it can be operated at either side of the delivery spout or elevator; and in an internal movable partition for the purpose of regulating the amount of grain that the delivery cylinder shall contain; and in the general construction of my device and the combination of its parts; all as will now be more fully described as well as pointed out in the claims.

In the accompanying drawings A, denotes an elevator spout attached at any convenient point to the grain spout of a thrashing machine. The apron B, is moved by suitable connection with the driving power of the machine. At the top of the spout the grain is delivered through the throat  $a$ , into the drum or cylinder C. This drum is revolved on its axis  $c$ , in the delivering end of the elevator by the crank  $c'$ , which is firmly fixed to shaft or axis  $c$ , and projects outwardly or rearwardly from the discharge end of the elevator and in a convenient position to be operated by a person standing on either side of said elevator. The drum is open at one side  $c^2$ , and when

this side is up is thus filled; upon revolving the drum this opening comes on the under side and the contents of the drum will fall into the bag or sack which is attached to the lower end  $a^2$ , of the discharge of the elevator in any convenient way or manner. From the axis of the drum and from end to end there extends a longitudinal division strip  $C'$ , to one side of the drum, which strip is fixed; by means of the movable strip  $c^3$ , hinged at one edge to the said axis and likewise extending from end to end to the periphery of the drum, the interior of the drum can be so arranged that the amount of grain it will hold and deliver at each turn of its handle can be regulated at will. The strip is secured at any desired position along the periphery by means of the spring catch  $c^4$ , which enters any of the holes  $c^5$ , in the end of the drum. By means of this adjustable partition any desired measurement of grain can be made: for instance the entire capacity of the drum can be filled, or one half of it, two thirds, three quarters. The present structure does not mean that I am to be limited to precisely what is now shown or to the precise measurements indicated, but to illustrate my invention which of course in its mere mechanical features may be changed at will. The sides  $a^3$ , of the delivering part of the elevator may be made removable. They can be held in place by set screws  $a^4$ , or in any desired way. On the periphery of the drum or on the sides of the elevator case facing it may be placed sheep skin or felt X. By means of this lining or facing there is practically a packing so that there can be no leakage of seed or grain.

This device can be readily attached to any of the ordinary thrashing machines, or the internal structure of those now on the machine can at a very small cost be changed to resemble what is now shown.

What I claim is:

1. In combination with any suitable device or means for delivering grain, a rotatable receiving and discharge drum, having within it a hinged and movable partition extending its whole length, whereby at will the size of the grain receiving space can be regulated, substantially as set forth.

2. In a device substantially as described,

in combination with a receiving and discharging drum having inside of it a fixed partition extending from end to end, a movable partition of the same length hinged thereto, substantially as and for the purposes set forth.

5 3. In a device, as described, in combination with the rotatable drum C, having an internal fixed partition C', the movable partition c<sup>3</sup>, adapted to be held at any desired position by

means of the spring catch c<sup>4</sup>, substantially as and for the purposes set forth.

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

L. T. NICHOLS.

Witnesses:

M. M. SEVERNS,  
A. R. EASTMEN.