(No Model.)

J. H. FORSYTH.

MEASURING BAGGER.

No. 381,122. Patented Apr. 17, 1888.

Fig. 1.

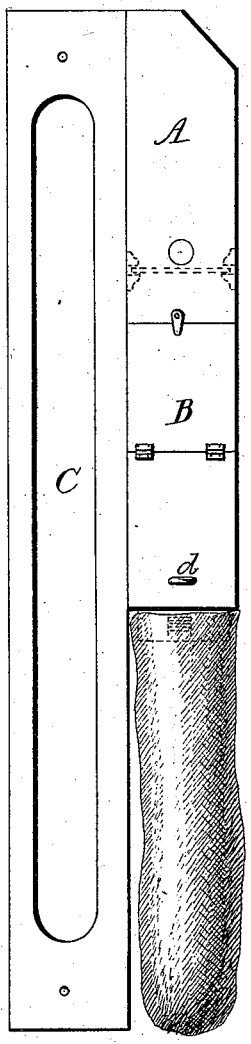


Fig. 2.

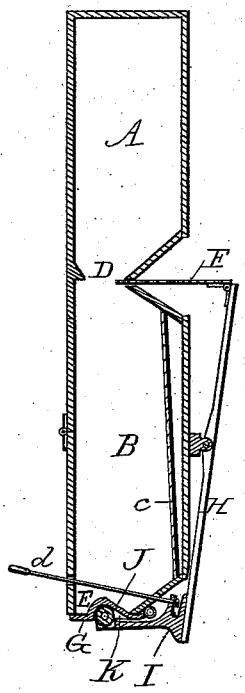


Fig. 3.

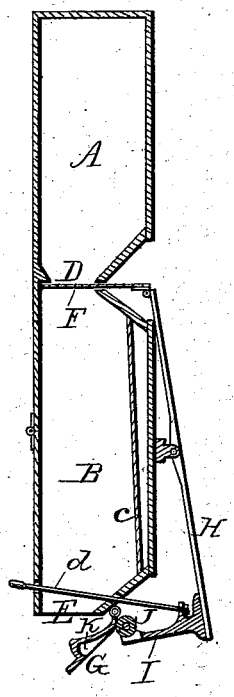
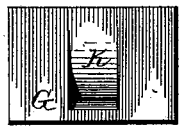


Fig. 4.



Witnesses.
George B. Hunt.
C. C. Ames.

Inventor.
John H. Forsyth

UNITED STATES PATENT OFFICE.

JOHN H. FORSYTH, OF FARGO, DAKOTA TERRITORY.

MEASURING-BAGGER.

SPECIFICATION forming part of Letters Patent No. 381,122, dated April 17, 1888.

Application filed February 1, 1888. Serial No. 262,626. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. FORSYTH, a citizen of the United States, residing at Fargo, in the county of Cass and Territory of Dakota, have invented a new and useful Measuring-Bagger, of which the following is a specification.

My invention relates to improvements in devices for measuring and bagging grain as it is delivered from the thrashing-machine. The devices heretofore in use for this purpose have proven inconvenient and unsatisfactory, the power required to operate them being so considerable as to nullify their utility.

The object of my invention is to simplify the construction of a grain-bagger and reduce the movement and power required to operate the same, which I attain by the devices described herein, and illustrated in the accompanying drawings, in which similar letters refer to similar parts.

Figure 1 in the drawings is a front elevation of the bagger as attached to the elevator of a thrasher. Figs. 2 and 3 are transverse vertical sections of same, and Fig. 4 is a view of the under side of the trap G.

The hopper A and measuring-chamber B are secured rigidly to the side of the elevator C. The chamber B is provided with a receiving-port, D, at the top and a discharge-port, E, at the base, and with a door or trap, G, hinged from underneath the rear side of said port E, and is also provided with a lever, H, at the rear side, extending vertically the whole length of chamber and hinged or pivoted thereto about midway. To the top of this lever is hinged a slide, F, extending in and serving as a cut-off to the port D, and to the bottom of said lever is rigidly attached a bracket, I, extending underneath the bottom of chamber, and carrying at the extreme end a friction-roller, J, the lever H being pivoted at a point which allows of movement equal to width of port D, and the bracket with roller being so adjusted that when bottom of lever is extended rearward the roller will meet the rear of the door G as it hangs open, as shown in Fig. 3, and when moved forward the roller will impinge the door, closing it instantly, and while supporting it closed continue its travel until cut-off slide at the top is fully open.

The roller J moving in an arc with a radius from the pivot of the lever, a recess, K, with a corresponding arc is formed in the door from the under side, of sufficient width to permit the free travel of the roller therein, by which device the roller J, after closing the door and while holding it firmly closed, may continue the forward movement required to open the port at the top. A rod, *a*, is extended through the chamber from the front near the base and attached to lower part of the lever or bracket, with handle in front by which to move and operate the lever conveniently.

It will be readily perceived that by the use of the hinged door and roller at the discharge-port, in conjunction with the slide cut off at the receiving-port, the movement and power required to operate are reduced to the minimum. The chamber B is also provided with a removable and adjustable partition, *c*, for varying the capacity of same.

In operating the bagger a bag or sack is suspended by any suitable device underneath the chamber B. The roller J being moved forward, the door G is closed and the port D at the top fully open, as shown in Fig. 2, which allows the grain to flow freely from the hopper A into the chamber B. When filled, the bottom of lever is pushed back by means of the handle *d* until the slide F covers the port D, at which point the door G is freed from the support of the roller J and drops open, as shown in Fig. 3, discharging the measured quantity into the bag. A slight forward movement of the roller brings it again in contact with the door and closes the port F before the port at top begins to open.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A measuring-bagger having a slide cut-off for the receiving-port and a hinged door for the discharge-port of the measuring-chamber, in combination with a hinged or pivoted lever having the slide cut-off attached at one end of lever and the other end detached from but so arranged and adjusted as to impinge and operate the hinged discharge-door simultaneously with the cut-off, substantially as herein described.

2. In combination with a measuring-bagger, the lever H, with the slide F and the roller J attached thereto, and a hinged discharge-door, arranged to operate substantially as herein described.

3. The combination, in a measuring-bagger, of the lever H, the slide F, and the roller J, with the hinged door G, provided with the recess K, substantially as described.

JOHN H. FORSYTH.

Witnesses:
GEO. B. DICKEY,
GEO. B. HUNT.