

B. Baker.

Grain Meter.

N^o 104,536.

Patented Jun. 21, 1870.

Fig. 1.

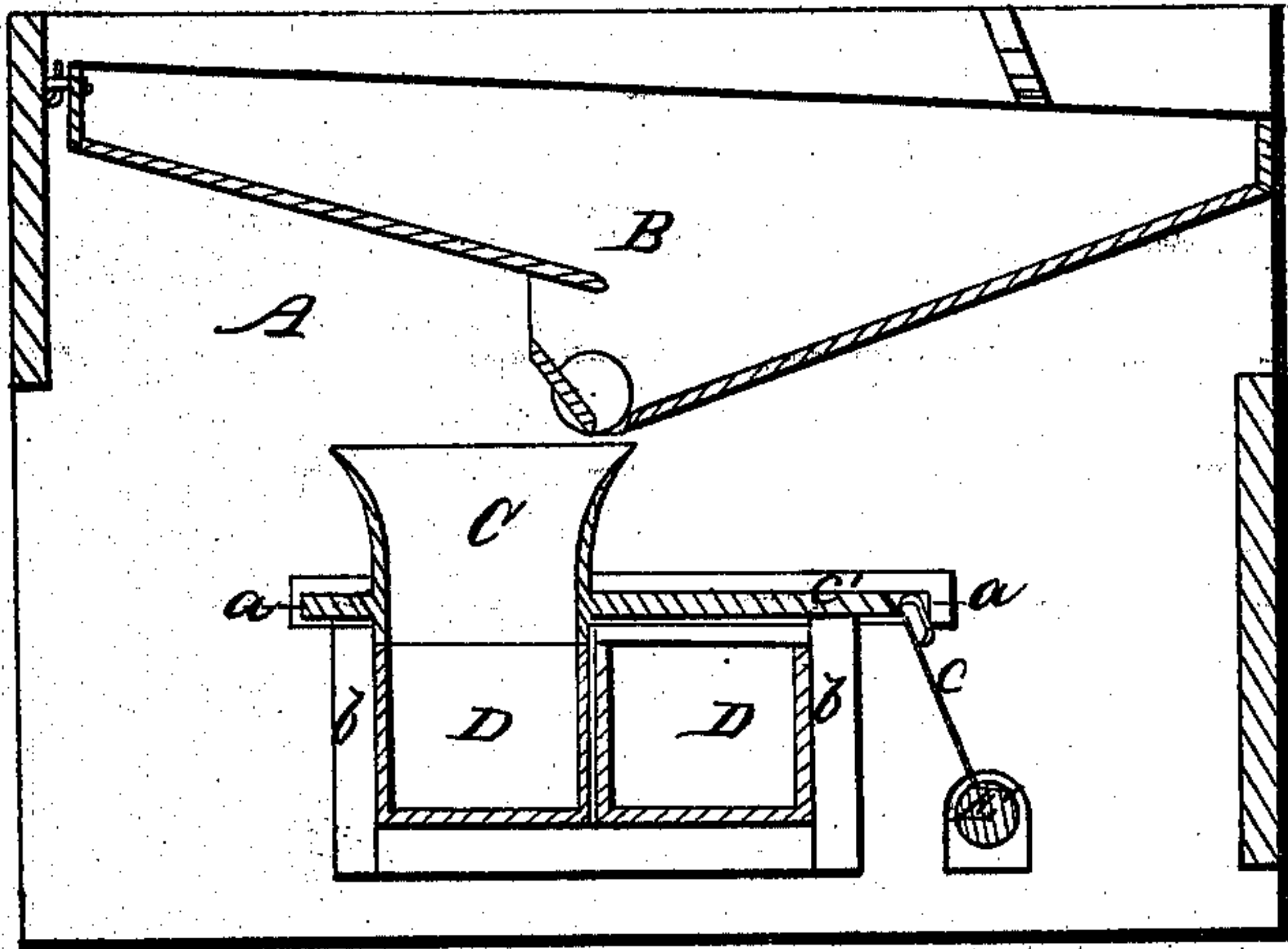
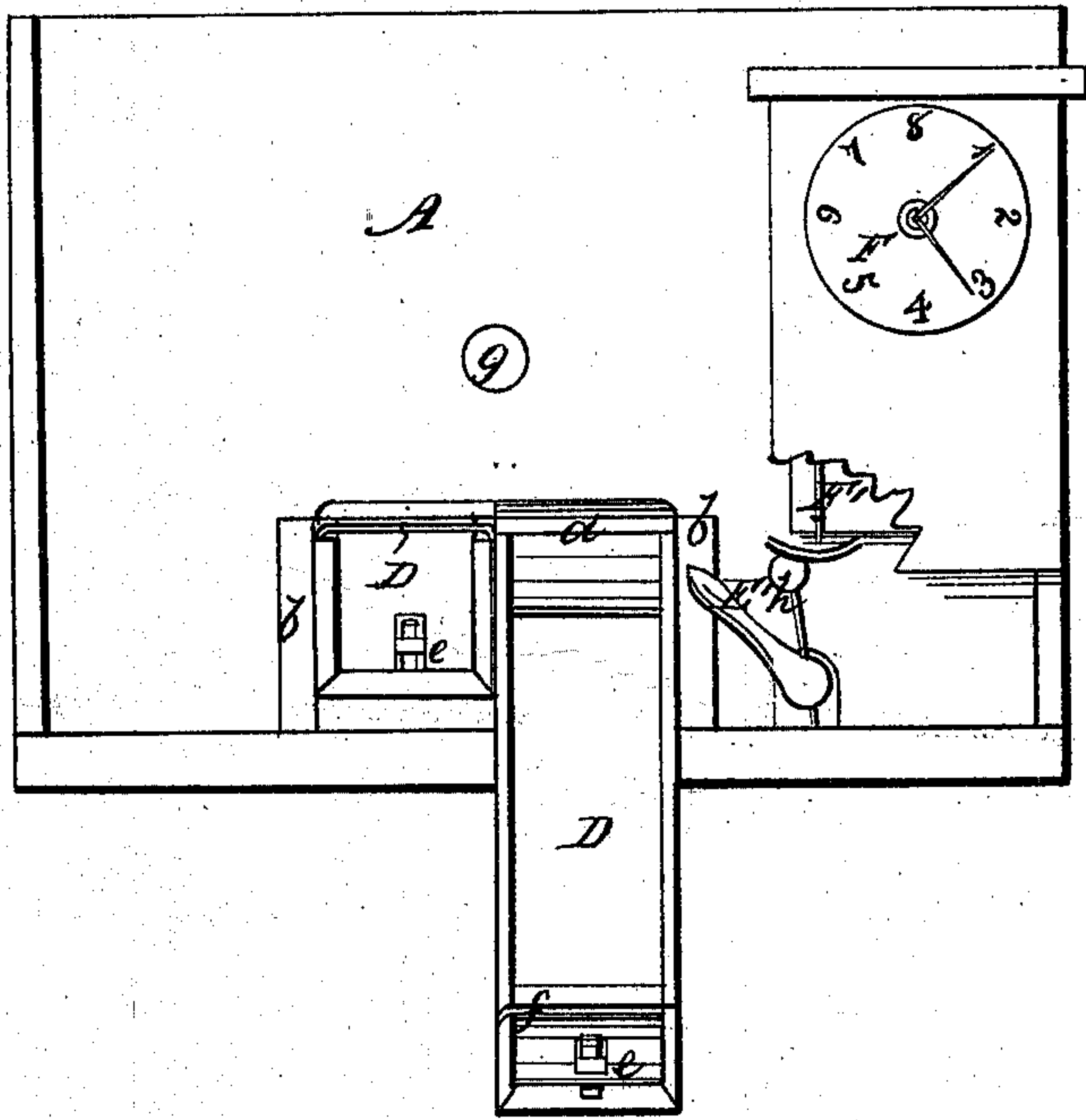


Fig. 2.

Witnesses.
Frederick Everts
Sam. J. Spray

Inventor.
Benjamin Baker
Per Attorney
Thos. J. Sprague.

United States Patent Office.

BENJAMIN BAKER, OF ADDISON, MICHIGAN.

Letters Patent No. 104,536, dated June 21, 1870.

IMPROVEMENT IN GRAIN-MEASURING ATTACHMENT TO THRASHING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that I, BENJAMIN BAKER, of Addison, in the county of Lenawee and State of Michigan, have invented a new and useful Improvement in Grain-Measuring and Tallying Attachments to Thrashing-Machines; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a side elevation of the rear end of a thrashing-machine with my improvement attached, and

Figure 2 is a vertical longitudinal section of the same.

Like letters indicate like parts in each figure.

The nature of this invention relates to the construction of a grain-measuring and tallying attachment to the separator of a thrashing-machine, and consists in the peculiar construction of a reciprocating, filling, and striking hopper, and the mechanism for moving the same, alternately, over a pair of grain-drawers of a given capacity, directing the grain into and filling the same, "striking off" the filled box, which may then be withdrawn and emptied into a bag, while, at the time the hopper is moved over the empty drawer, a counter is acted upon and its index moved a degree, its dial indicating, at all times, the number of drawers that have been filled and withdrawn; in the new and peculiar construction of the drawers, and in the general construction of its various parts, as hereinafter more fully shown and set forth.

In the drawing—

A represents the lower rear part of a thrashing-machine below the separator, which discharges its grain into the vibrating shoe B.

C is a hopper, open its full length across the machine, and sliding on cleats, *a*, secured to the inner walls of the machine.

Directly under the cleats two drawers, D D', are inserted in the walls of the machine, transversely across it, between suitable guides, *b*.

E is a rock-shaft, journaled in the lower rear part of the machine, rotated by a lever, E', and provided, within the walls A, with rocker-arms, *c*, with which are connected the ends of slides C', carrying the hopper on the cleats *a*. By vibrating the lever of the rock-shaft, the hopper may be moved over either drawer, guiding the grain from the shoe into it. As it passes

over the full drawer its edge "strikes" off the surplus grain, carrying it into the empty drawer, which may then be withdrawn and emptied into a bag. The drawer which is being filled cannot be withdrawn until the hopper is moved away, the rear end of the drawer being provided with a strip, *d*, which would come into contact with the end of the hopper if the attempt to withdraw it were made.

The drawer fronts are doors, pivoted to the sides, near the top, and held in place by a bolt, *e*, while *f* is a bale, for conveniently handling them.

g is an aperture in the wall of the machine, enabling the attendant to see the hopper and drawers, so that, when one is full, he may fill the other and withdraw the full one, drawing it nearly out, resting its rear edge on the floor of the machine. With one hand he sustains the front end, by the bale, over the bag to be filled; with the other he opens the door, and, inclining the drawer into the mouth of the bag, empties the grain therein, and returns the drawer to its place.

To keep the tally of the number of drawers emptied, a counter or tallying-machine, F, of any approved form, is attached to the wall of the thrasher, over the rock-shaft, and provided with an actuating lever, F', which, each time the same is lifted, will cause the index to move forward a degree on the dial.

On the rock-shaft is a tappet, *h*, so disposed that, each time the hopper is moved back and forth, it will lift the actuating lever and register another number on the dial, so that, if the boxes or drawers are made of capacity of one bushel each, the number of bushels thrashed and taken from the machine will be tallied with unfailing accuracy.

I claim as my invention—

1. The hopper C, reciprocated on the cleats *a* by the rock-shaft E, lever E', and rocker-arms *c*, connected to its slides C', as and for the purpose set forth.

2. The grain-drawers D D', having their fronts pivoted as described, and provided with bale *f*, strip *d*, and bolt *e*, as and for the purpose set forth.

3. The construction and arrangement of the hopper C, drawers D D', rock-shaft E, lever E', tappet *h*, actuating lever F', and counter F, with relation to each other and a thrashing-machine, in the manner and for the purposes specified.

BENJAMIN BAKER.

Witnesses:

H. F. EBERTS,
S. J. SPRAY.