(No Model.)

B. CHAMBERLAIN.

GRAIN MEASURE.

No. 265,019. Patented Sept. 26, 1882.

Fig. 1.

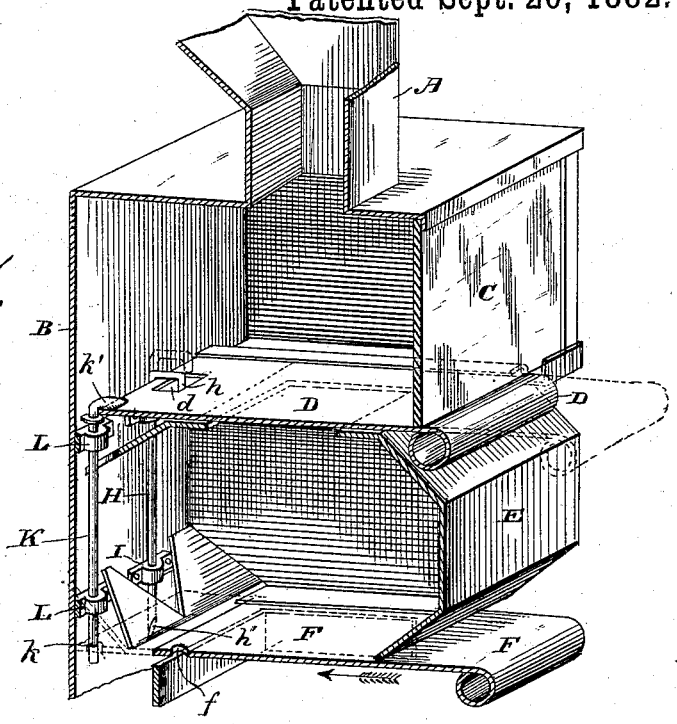
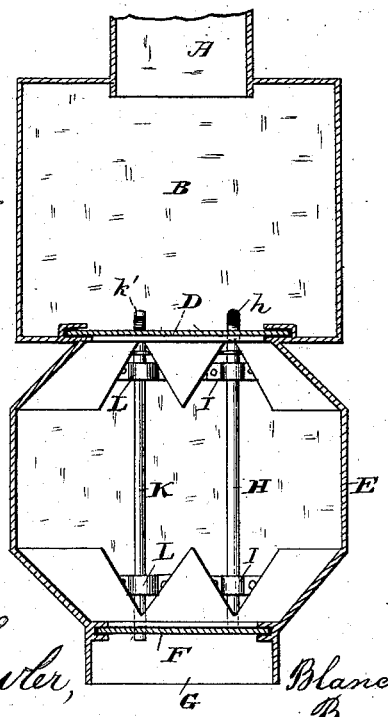


Fig. 2.



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UNITED STATES PATENT OFFICE.

BLANCHARD CHAMBERLAIN, OF BELLEFONTAINE, OHIO.

GRAIN-MEASURE.

SPECIFICATION forming part of Letters Patent No. 265,019, dated September 26, 1882.

Application filed May 29, 1882. (No model.)

To all whom it may concern:

Be it known that I, BLANCHARD CHAMBERLAIN, a citizen of the United States, residing at Bellefontaine, in the county of Logan and State of Ohio, have invented an Improvement in Grain-Measures, of which the following is a specification.

My invention relates to those grain-measures which are adapted for application to the delivery-spout of a thrashing-machine or grain-cleaner.

My improvement consists in a receiving-box provided with a glass front and with a slide at bottom for shutting off or dropping the contents, as desired, and a measuring-box beneath, also provided with a slide at bottom, the said slides being provided with a system of latches which prevent both slides being drawn out or pushed in at the same time, the upper slide being employed to admit grain to the measuring-box and the lower slide to deliver it therefrom into the sacks.

In order that the invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved grain-measure, one side being removed to exhibit the interior construction. Fig. 2 is a vertical section transverse of the slides, looking in the direction of the arrow in Fig. 1.

A may represent the delivery-spout of a thrashing-machine, grain separator or cleaner.

B is the receiving-box, which is preferably provided with a glass front, C.

D is a slide.

Beneath the receiving-box is located a measuring-box, E, also provided with a slide, F.

By opening the upper slide, D, the grain is delivered to the measuring-box, and by opening the lower slide, F, the grain is dropped through a spout, G, into a suitable sack or other receptacle.

In order to prevent the removal of both the slides D and F at the same time, which would endanger the discharge of grain without measuring, I provide each of said slides with a catch, which locks it automatically whenever the other slide is drawn out.

The locking-latch of the upper slide is shown at H, secured by suitable strap-plates, I, to the casing, so as to move freely up or down, and formed with hooked upper end, *h*, adapted to engage with hole *d* in the slide D, and with an oblique face, *h'*, at its lower end, which is engaged by the lower slide, F, so as to be lifted by the rear end of the said slide when it is pushed in, and thus release the upper slide.

The locking-latch of the lower slide consists of a bolt, K, adapted to move vertically in its securing strap-plates L, and so arranged that its lower end, *k*, can be dropped into a hole, *f*, in the said slide, and provided at its upper end with an oblique-faced lug, *k'*, which is engaged by the rear portion of the upper slide, D, when the slide is pushed in, so as to lift the said bolt K out of the hole *f* in the lower slide, F.

It will thus appear that while both slides D and F are closed either is free to be withdrawn; but the withdrawing of either will cause the latch of the other slide to drop and prevent the removal of said remaining slide until the first one taken out is replaced.

The measuring-box E is preferably made with a square body and converging top and bottom, as shown in the drawings, this form adapting it to be completely filled in all its parts, and hence to accurately measure the grain.

The glass front C of the upper box, B, has a double function, as it enables the attendant to observe when the lower box, E, is full, at which time the upper slide is pushed in, and also the position of the slide. When the upper slide is pushed in, as shown in full lines in Fig. 1, the lower slide may be drawn out to discharge the grain, as shown in full lines also in same figure.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination, with a receiving-box, B, and a measuring-box, E, of the slides D and F, provided with suitable locking devices, automatically fastening either slide on the removal of the other, as explained.

2. The combination, with the slides D and F, of the latches H and K, formed with oblique faces *h'* and *k'*, substantially as and for the purposes herein shown and described.

3. The combination, with receiving-box B and a measuring-box, E, of the slides D and F, having openings *d* and *f*, bolt H, formed with hook *h* and oblique face *h'*, and the bolt K, formed with lug having oblique face *k'*, as set forth.

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