

J. ARMSTRONG.

Grain Toller.

No. 82,193.

Patented Sept. 15, 1868.

Fig. 2

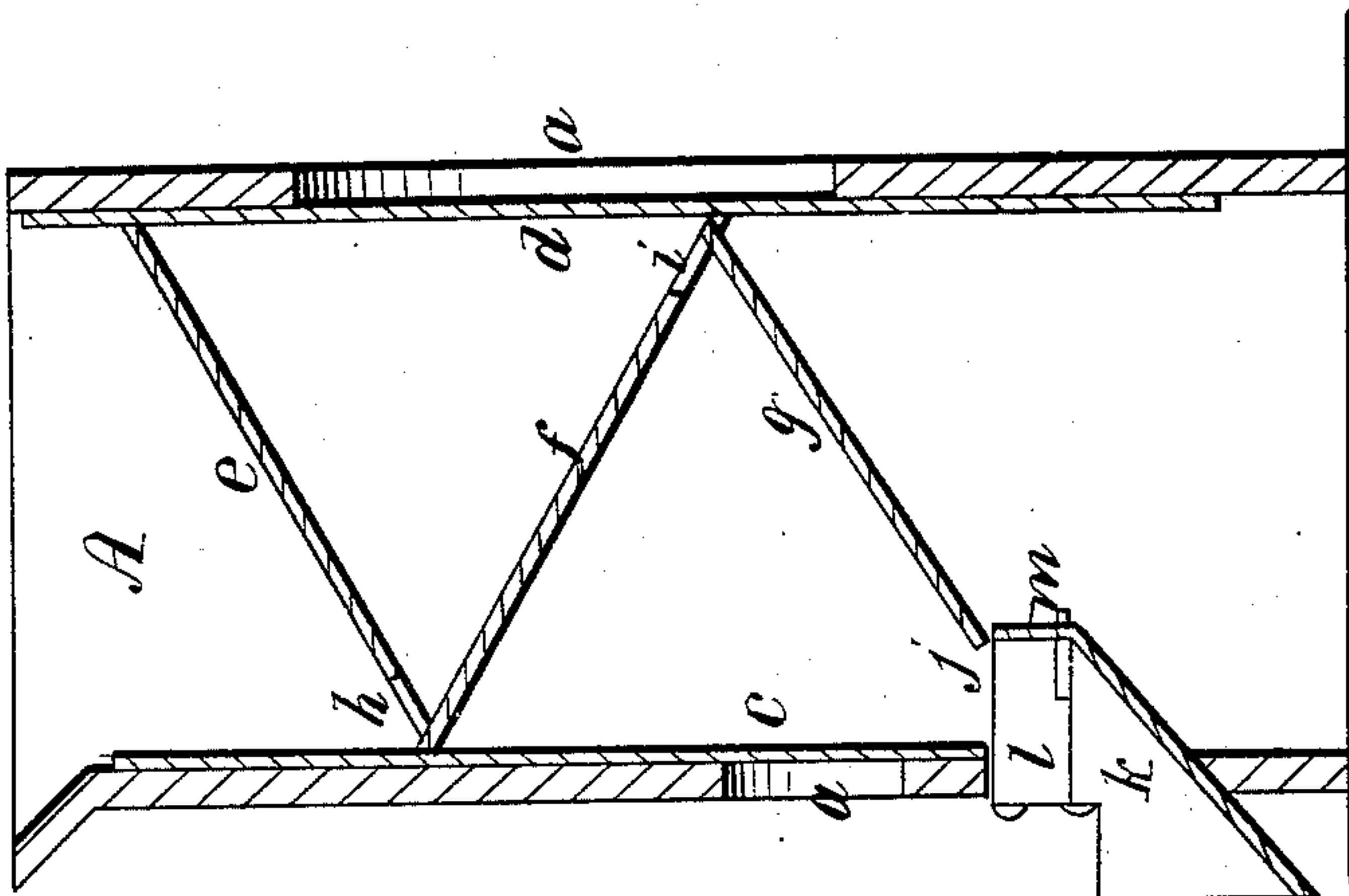
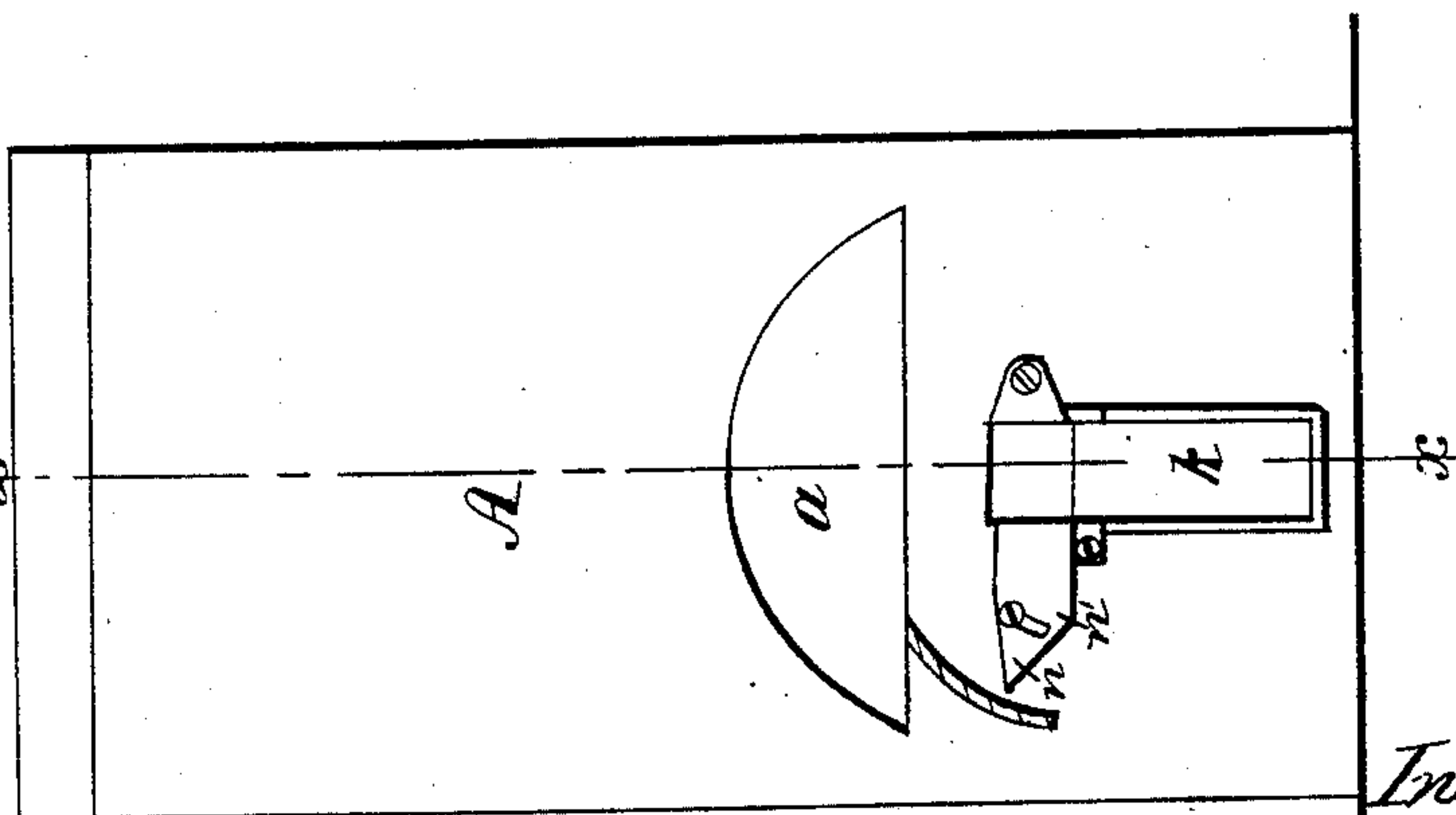


Fig. 1



Witnesses

C. H. Smith
J. D. Heakers

Inventor.

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United States Patent Office.

JAMES ARMSTRONG, OF BUCYRUS, OHIO.

Letters Patent No. 82,193, dated September 15, 1868.

IMPROVED APPARATUS FOR TOLLING GRAIN.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES ARMSTRONG, of Bucyrus, in the county of Crawford, and State of Ohio, have invented a new and useful Improvement in Machines for Tolling Grain; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, in which—

Figure 1 is a front elevation, and

Figure 2 is a vertical section, taken in the line *x x* of fig. 1.

The nature of my invention consists in a peculiar arrangement of an instrument by which any desired quantity of the grain passing into the hopper can be retained or tolled.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The case, A, may be constructed of any desired form, but the bottom of it should be made so as to fit the hopper.

In the sides of the case A, openings, *a b*, are cut, and inside of the case, and over the openings, are pieces of glass, *c d*; the object of this being that the operator will be enabled to see whether the grain passing through the box is evenly distributed.

Within the box A are three partitions, *e f g*, of glass, or other suitable material, placed obliquely across the box, at different angles to each other, as seen in fig. 2.

At the lower edge of each partition are spaces, *h i j*.

In the side of the box A, below the partition *g*, is a spout, *k*. One side of the spout is divided, and the upper portion, *l*, acts as a gauge, and is hinged at *m*.

On the front end of the gauge *l* is a slotted indicator, *n*, the point of which passes over a scale marked on the side of the box A.

In the slot *n* is a screw, by which the gauge can be held in any desired position.

Its operation is as follows: The grain is poured in at the top, and passed down through the openings *h i j*. As it falls from one partition to another, the grain is evenly distributed by the time it reaches the lower one.

The spout *k* is located in the last space, *j*, but is much narrower than the box; therefore, as the grain falls into the space *j*, a limited portion of it falls into the spout, and the balance into the hopper.

By the adjustment of the gauge *l*, the width of the top of the spout *k* is made larger or smaller, as desired, the indicator *n* showing the proportion which runs into the spout *k*.

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

The combination of the box A with partitions or chutes *e f g*, the spout *k*, and the gauge *l*, when constructed and arranged as and for the purpose herein set forth.

JAMES ARMSTRONG.

Witnesses:

JAS. G. THEAKER,
G. A. C. SMITH.