

A. L. Williams Flour Bolting Beel

103002

PATENTED MAY 10 1870

fig: 1

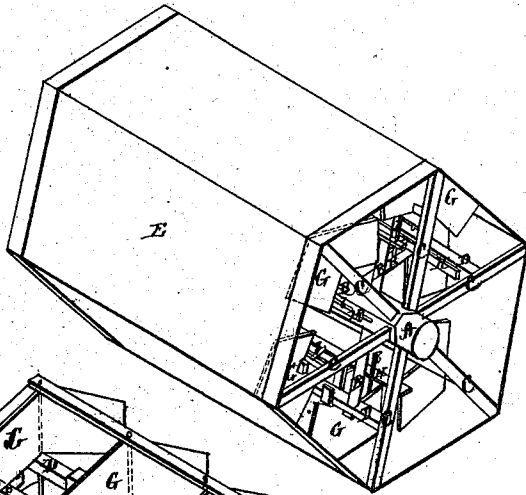


fig: 2

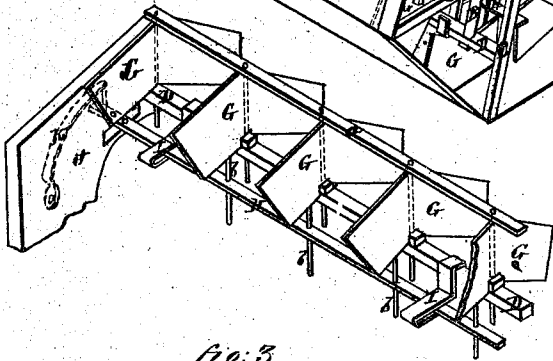
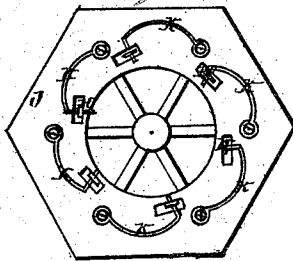


fig: 3



Witnesses

C. A. Curt
Arthur A. Yeatman

Inventor

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per
Alexander Mason
Attys.

United States Patent Office.

ALLISON L. WILLIAMS, OF ORTH, INDIANA, ASSIGNOR TO HIMSELF AND JOHN H. BELL, OF SAME PLACE.

Letters Patent No. 103,002, dated May 10, 1870.

IMPROVEMENT IN FLOUR-BOLTING REELS.

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, ALLISON L. WILLIAMS, of Orth, in the county of Montgomery and in the State of Indiana, have invented certain new and useful Improvements in Flour-bolting Reel; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "flour-bolt," with adjustable wings on the inside; to change the draught in any manner desired, to suit different kinds of wheat.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a perspective view of the entire bolt.

Figure 2 is a perspective view of the inside of the reel, showing the adjustable wings attached to one of the ribs, and

Figure 3 is a view of the head of the reel.

A represents the center shaft of my reel, having arms B B and C C, for supporting the ribs D D.

These ribs are secured to the outer ends of the inner arms B B, and their ends inserted in mortises upon the end arms C C, which extend a suitable distance beyond the ribs.

The outer ends of the arms C C are connected by means of small bars or rods *a a*, running parallel with the ribs D D and the shaft A, and around which the bolting-cloth E is placed, thus forming a space between the ribs and rods, of suitable size for the flour to pass through when the bolt revolves. There being no corners where the flour can collect to be carried up, it of course prevents any specks in the flour.

The flour slides smoothly along the cloth, over the bars or rods *a*, and no bolting-surface is lost, as only a very small space is taken up.

At suitable distances apart, on the outside of each of the ribs D D, is pivoted a series of wings G G, constructed as shown in fig. 2, so as to extend for a certain distance on each side of the rib, their upper

edges coming flush with the inner side of the bolting-cloth.

The pivots or the wings G G have, also, a bearing in the under side of the bar or rod *a*.

From one side of each wing G a rod, *b*, extends downward, and passes through a hole in the bar, H, which is supported in guides I I, attached to the rib D.

These bars H pass through slots in the head J, and have several holes through their outer ends. By moving the bars H H out or in, the position of the wings G G is changed, and each bar is held in the desired position by a hook, K, pivoted on the outside of the head J, and entering one of the holes in the bar.

The object of these adjustable wings in the bolt is to change the draught, the bolt being placed horizontal, so that the same bolt will answer for the different qualities of wheat. For instance, if the wings are placed one foot apart on the ribs, and there adjusted to stand square, the bolt will have what is called a twelve-inch draught. Then, by turning the wings in different directions, the draught will be reduced to a six-inch, three-inch, or even a one-inch draught, thus doing the same amount of work as a bolt of larger dimensions.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement of the shaft A with arms B B and C C, ribs D, and bars or rods *a a*, substantially as shown and described.

2. The wings G G, constructed as described, and pivoted between the ribs D D and rods *a a*, substantially as and for the purposes herein set forth.

3. In combination with the pivoted wings G G, the rods *b b*, bars H H, and hooks K K, arranged and operating substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 11th day of April 1870.

ALLISON L. WILLIAMS.

Witnesses:

A. N. MARR,
C. L. EVERT.