

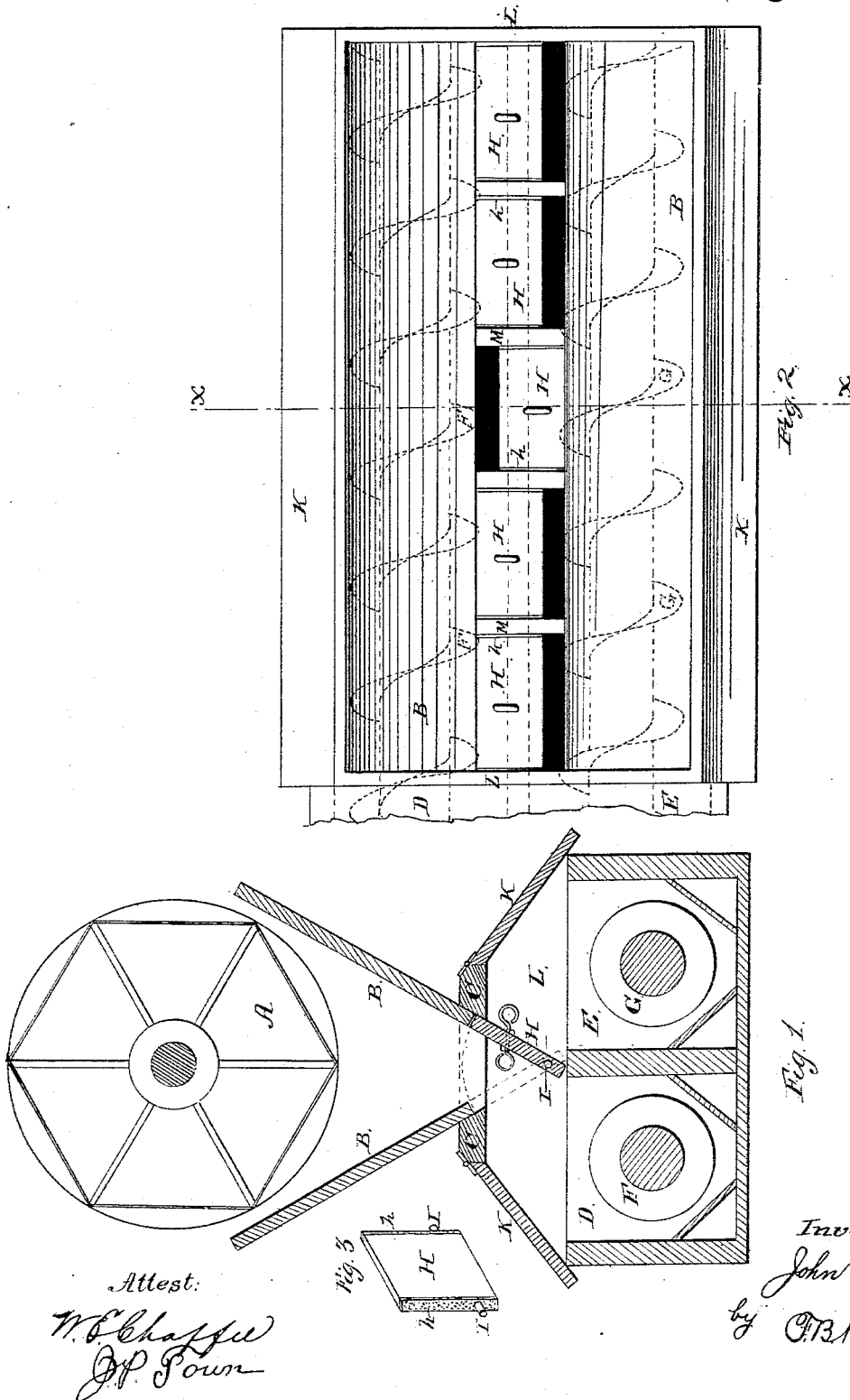
(No Model.)

J. TODD.

CUT-OFF FOR BOLTING CHESTS.

No. 303,763.

Patented Aug. 19, 1884.



Attest:

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Fig. 1.

Fig. 2.

Fig. 3.

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# UNITED STATES PATENT OFFICE.

JOHN TODD, OF LEWISTOWN, PENNSYLVANIA.

## CUT-OFF FOR BOLTING-CHESTS.

SPECIFICATION forming part of Letters Patent No. 303,763, dated August 19, 1884.

Application filed January 30, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN TODD, a citizen of the United States, residing at Lewistown, in the county of Mifflin and State of Pennsylvania, have invented certain new and useful Improvements in Cut-Offs for Bolting-Chests; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same,

Figure 1 is a central vertical section of a bolting-chest, taken through the line *x x* of Fig. 2, to which my improvement has been applied. Fig. 2 represents a top plan view of the same with the flour-reel removed. Fig. 3 is a detailed view of one of the cut-offs or valves.

My improvements relate to flour-bolting machinery; and the invention consists in the following construction and arrangement of the valves located between the flour-reel and the conveyers, and which will be first fully described, and then set forth in the claim.

In the accompanying drawings, A represents a flour-reel of the usual construction. It is hung in bearings and placed over the hopper-boards B, which are V-shaped. The hopper-boards are mounted within a bed-plate, C. Beneath this bed-plate are arranged two conveyer-troughs, D E, containing the conveyers F and G, which in this case are of the spiral-vane construction, although they may be of any desired and approved form.

H are a series of valves hinged upon rods I, located over and between the two conveyer troughs or boxes. It will be noticed that the valves or cut-offs H form a continuation of the hopper-boards B, and that their pivotal point is in such position that when the cut-offs are vibrated to one side or the other (so as to form a continuation of either one of the hopper-boards B) the lower ends of the cut-off valves will project beyond the partition between the two conveyer-boxes. This arrangement prevents any lodgment or accumulation of the flour-products.

K K are doors hinged to the bed-plate C, and which enable the attendant to get access to the cut-off valves, in order to operate them or for the purposes of renewal or repair.

L are end pieces for closing the ends of the valve-box.

When it is desired to change the flour products in their delivery from the reel through

the hopper to the conveyer, so that the bolt may enter either one of the conveyers F or G, the cut-off valves H are vibrated or shifted for that purpose. In other words, when the flour products are desired to be delivered to the conveyer F, the cut-offs H are shifted to the right, as shown in full lines in the drawings. When the bolt is intended for the conveyer G, the cut-offs are vibrated to the left, as shown in dotted lines.

If desired, either one or more of the cut-offs H may be shifted independently of the others at any one or more points.

The cut-offs H are provided with rubber facings *h*, in order to make the cut-offs work closely to the partitions M between them, and thus prevent any leakage, thereby making the separation of the products more complete.

By the employment of the rubber facings to the opposite sides of the valves or cut-offs, as described, I am enabled to dispense with the usual side strips on the adjoining partitions M of the valves, which were necessary to prevent any leakage through the valves. These side strips, moreover, are objectionable, in that the flour products accumulated upon them and prevented the proper seating of the valves.

By providing a cut-off arranged over the two conveyers when arranged side by side, the flour products are easily and conveniently changed in their delivery from one to the other conveyer at one point, thereby saving the expense and the use of apparatus for receiving the bolt at one end of one conveyer and transferring it back again through the other conveyer.

Having described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

In combination with the hopper-boards of a flour-bolting apparatus, two conveyers, the partitions M, and a series of valves or cut-offs, pivoted, as shown, so that the lower edge of the valves will swing at either side beyond the vertical line of the partition between the conveyers, and provided with rubber facings *h* between the partitions and valves, whereby the usual stop or side rail is dispensed with.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN TODD.

Witnesses:

J. K. RHODES,  
A. W. PORTER.