

A. M. HOBBS.

Double-Acting Valve Cut-Off to Flour-Packer.

No. 168,020.

Patented Sept. 21, 1875.

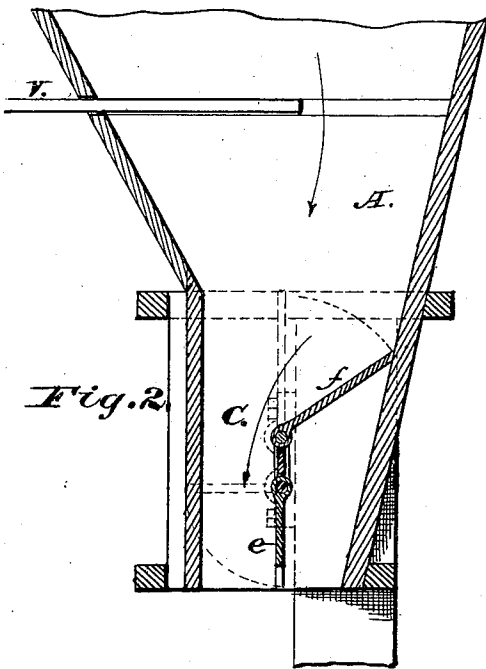


Fig. 2.

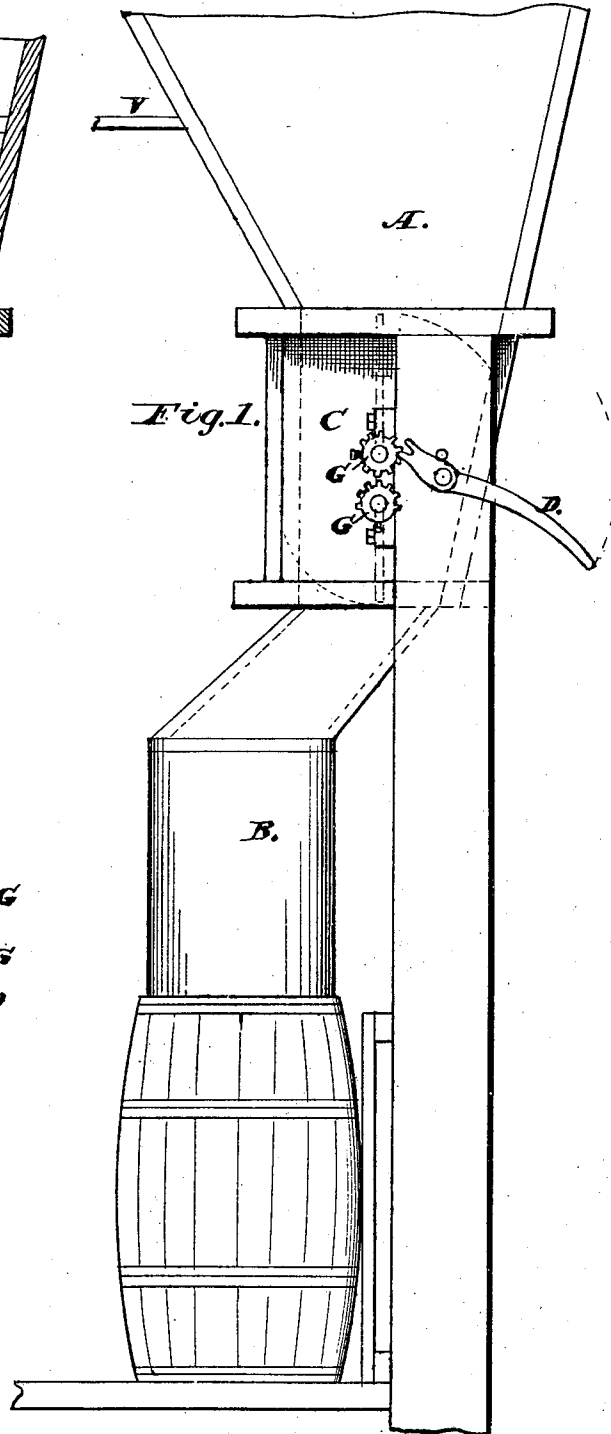


Fig. 1.

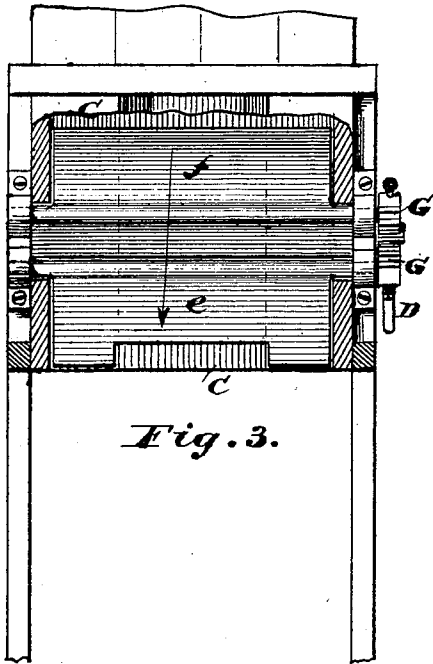


Fig. 3.

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AUGUSTIN M. HOBBS, OF WAUPACA, WISCONSIN.

IMPROVEMENT IN DOUBLE-ACTING-VALVE CUT-OFFS TO FLOUR-PACKERS.

Specification forming part of Letters Patent No. **168,020**, dated September 21, 1875; application filed March 30, 1875.

To all whom it may concern:

Be it known that I, AUGUSTIN M. HOBBS, of Waupaca, Waupaca county, State of Wisconsin, have invented a Double-Acting-Valve Cut-Off to Flour-Packers, and more particularly the "Eureka Flour-Packer," of which the following is a specification:

The object of my invention is to do away with the great inconvenience now occasioned by the cut-offs in flour-packers, and more especially the Eureka flour-packer, which is so far above the tube B which contains the augers that before the tube B can be changed—which often has to be done in the Eureka flour-packer many times in a day—it requires two men with heavy iron bars to climb a ladder to the ceiling before the cut-off V can be closed, and which, when closed, leaves ten barrels of flour between tube B and cut-off V, which has to be drawn off before the tube B can be removed, which takes time, and is universally inconvenient and troublesome.

In carrying out my invention, the double-acting-valve cut-off, which is at C in Fig. 1, being so low down, completely does away with the inconvenience and trouble so much experienced with cut-offs in flour-packers, and especially the cut-off in the Eureka flour-packer, which is at V in Fig. 1. Besides, the double-acting-valve cut-off at C in Fig. 1 is so constructed and applied to flour-packers, and especially to the Eureka flour-packer, that one person standing on the floor beside the tube B can, with one hand, by means of a lever, which is at D in Fig. 1, close the cut-off at C, thereby stopping the flow of flour into said tube B, and which only leaves, after said cut-off at C is closed, about one half barrel of flour between the tube at B and the cut-off at C, where, as before, in the Eureka flour-packer, it left ten barrels between the tube B and the cut-off at V, as in Fig. 1, thereby completely overcoming the inconvenience and trouble so much experienced by using the cut-off at V in the Eureka flour-packer.

The valves of my cut-off, which are E and F, are so constructed that they are entirely independent of each other, so that when the lever D is in a horizontal position, as represented in Fig. 2, the lower valve E is opened, while the upper valve F remains entirely closed, thereby regulating the flow of flour into the tube B, to suit the convenience of the operator of the machine. Besides, when the lower valve is open the pressure on the upper valve F is so diminished that it can be opened without difficulty, and when the valves are both opened they are perpendicular, as shown in Figs. 1 and 3, and in no way impede the progress of the flour into tube B, as represented in Fig. 1.

It is evident that the cut-off may be provided with a lever at each end for operating the same.

In closing my cut-off the upper valve F closes first, as in Fig. 2, stopping the flow of flour to a great extent, thereby allowing the lower valve E to close without any trouble, and without using much force.

My cut-off at C, Fig. 1, is formed by means of two valves, three rods, and two cogs, which are at the end of the two rods that pass through the valves, and are fastened by means of set-screws, as represented in Figs. 1, 2, and 4. The middle rod supporting the others in such a manner makes my cut-off and the other rods much stronger and more durable, which makes my machine far preferable to any now in use, the valves working independently, being simple of construction, durable, easily worked, and not liable to get out of order.

I claim as my invention—

Tube C, having independent valves E, and if secured to shafts provided with cogged segments separately engaging with and operated by lever D, as and for the purpose specified.

AUGUSTIN M. HOBBS.

In presence of—

E. COOLIDGE,
F. F. WHEELER.