H. A. Barnard,

Flour Packer,

No. 67,249, Patented July 30, 1867.

Fig. 1

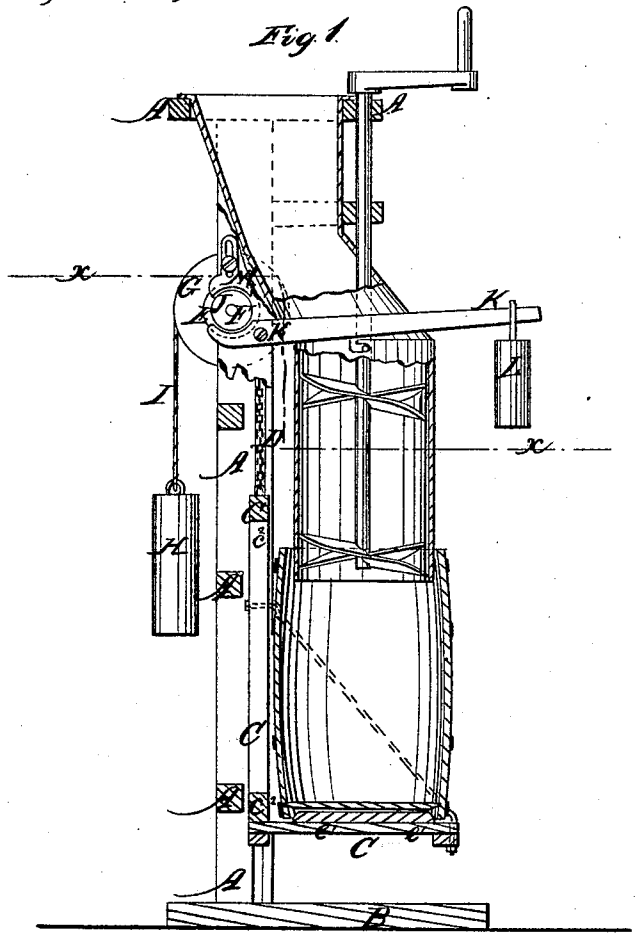
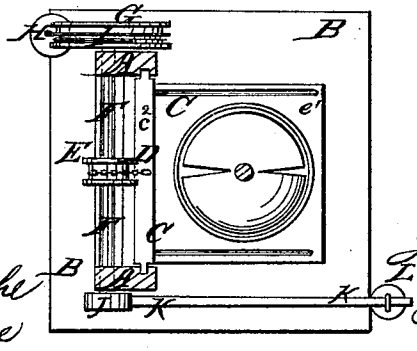


Fig. 2



Witnesses.
Theo Trusche
J. A. Service

Inventor.
H. A. Barnard
Per Munn & Co
Atty's

AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

H. A. BARNARD, OF MOLINE, ILLINOIS.

IMPROVEMENT IN MACHINES FOR PACKING FLOUR.

Specification forming part of Letters Patent No. **67,249**, dated July 30, 1867.

To all whom it may concern:

Be it known that I, H. A. BARNARD, of Moline, Rock Island county, Illinois, have invented a new and Improved Flour-Packer; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my improved packer, partly in section to show the construction. Fig. 2 is a detail sectional view of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved apparatus by the use of which flour may be quickly, conveniently, and evenly packed into barrels; and it consists in the combination of the weight, pulleys, and sliding barrel-support with each other and with the upright frame of the machine; and in the combination of the adjustable weight, lever-brake, and friction-wheel with each other and with the pulley-shaft and frame of the machine, the whole being constructed and arranged as hereinafter more fully described.

A is the upright frame of the packer, the lower end of which is attached to the floor or platform B. C is the barrel-support, upon the platform c^1 of which the barrel is set to be filled. The vertical frame c^2 of the barrel-support has tongues formed upon its side edges, which enter and slide in grooves in the sides of the posts of the frame A, as shown in Figs. 1 and 2.

The platform c^1 is strengthened by inclined braces extending from the forward corners of said platform c^1 to the upper part of the sliding frame c^2.

To the upper part of the sliding frame c^2 of the barrel-support C is attached the lower end of a chain or rope, D, the other end of which is secured to the pulley E, attached to the shaft F. The shaft F revolves in bearings in the frame A, and to one of its ends is attached a pulley, G, from which is suspended a weight, H, by a rope, I, the rope I passing around the pulley G in a different direction from that in which the rope or chain D is wound around the pulley E, so that the one rope or chain may be wound up as the other is unwound, thereby creating a double leverage to counterbalance the barrel as it is being filled with flour. To the other end of the shaft F is attached a friction-wheel, J, against which the lever-brake K presses. The lever K is pivoted to the side of the frame A in such a position that the shoe formed upon its short arm may be pressed against the friction-wheel J, as shown in Fig. 1.

L is a weight suspended from the long arm of the lever K in such a way that it may be moved back and forth upon the said lever to adjust the friction upon the friction-wheel J.

M is a brake or shoe, adjustably attached to the frame A, above the friction-wheel J, by a screw passing through a slot in the shank of the said shoe, as shown in Fig. 1.

As thus arranged the effect of the lever K and weight L is to force the friction-wheel J against the brake-shoe M with a greater or less pressure, as may be required, the lever K and shoe M forming a compound or double brake.

By this construction the flour may be packed in the barrel evenly and rapidly and more or less solidly, as may be desired.

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

The two pulleys G and E and the compound or double brake K M, in combination with the shaft F, friction-wheel J, weight L, and the barrel-support C, substantially as herein shown and described, and for the purpose set forth.

H. A. BARNARD.

Witnesses:

N. BRANCH,

J. B. WYCKOFF.