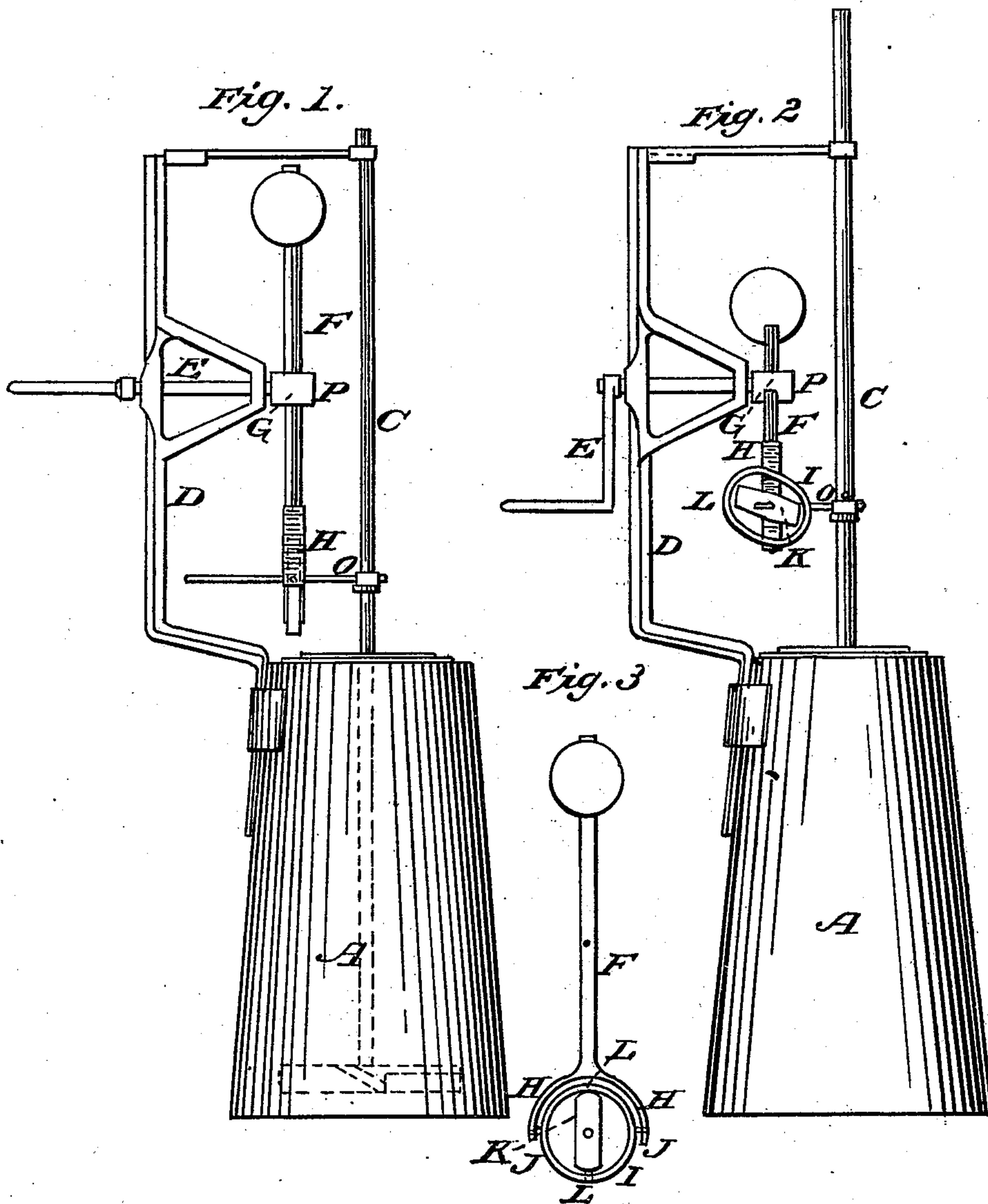


W. C. DOUTHETT.

Churn.

No. 83,050.

Patented Oct. 13, 1868.



WITNESSES:  
H. Bruns  
L. L. Coburn

INVENTOR:  
Wm. C. Douthett



WILLIAM C. DOUTHETT, OF ROCHELLE, ILLINOIS.

*Letters Patent No. 83,050, dated October 13, 1868.*

**IMPROVEMENT IN CHURNS.**

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, WILLIAM C. DOUTHETT, of Rochelle, in the county of Ogle, and State of Illinois, have invented a new and useful Improvement in Churns; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and the letters and figures marked thereon, which form a part of this specification, and in which—

Figure 1 represents a side elevation of my improved churn, with the dasher down;

Figure 2, the same view, with the dasher partly raised; and

Figure 3, a detached view of the arm which contains the operating-attachment to the dasher.

The object of my invention is to operate an ordinary dasher-churn, by a power applied through a crank; and my invention consists in two improvements on my invention which was patented to me in Letters Patent, No. 77,873, one being the method by which motion is communicated from the arm F to the dasher of the churn, and the other, the means employed in regulating the length of stroke of the dasher.

To enable those skilled in the art to manufacture and use my invention, I will proceed to describe the same with particularity.

I construct the churn, A, in any of the known ways of constructing a dasher-churn, and the standard D I construct the same in principle as described in my Letters Patent, No. 77,873, but the form of the standard shown in this application, which is a ribbed casting, I consider stronger and stiffer.

The crank E has its bearings in the standard D, which I cast in a single piece, as shown in figs. 1 and 2.

The weighted arm F has jaws, H, at one end, between which the ring I is hung, by the trunnions J, and within the ring I there is a piece, K, hung on trunnions L. The arm or rod, O, which clasps the dasher C, passes through the piece K, and on account of the double action, caused by the piece K turning within the swinging ring I, the direction of the hole in K, through which the rod O passes, readily turns towards the dasher C, and thereby prevents any friction on the rod O, as the churn is being operated, on account of the said rod binding in the piece K.

There is a hub, P, on the end of the crank-rod E, through which the arm F passes, it being held in place by the set-screw Q. By turning said set-screw, the arm F can be moved in the hub P, thereby regulating the length of the stroke of the dasher.

This device may be applied in a washing-machine, or any other machine where it may be useful, to convert a rotary to a reciprocating motion.

Having fully described the construction and operation of my improvement,

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

1. The double oscillating or swing-joint, when constructed substantially as above described, and for the purposes set forth.

2. The hub P, in combination with the adjustable rod F, arms H, ring I, piece K, and rod O, all operating to regulate the length of the stroke of the dasher C, as well as to produce the stroke itself, substantially as described.

WM. C. DOUTHETT.

Witnesses:

J. R. MAGEE,  
L. L. COBURN.