

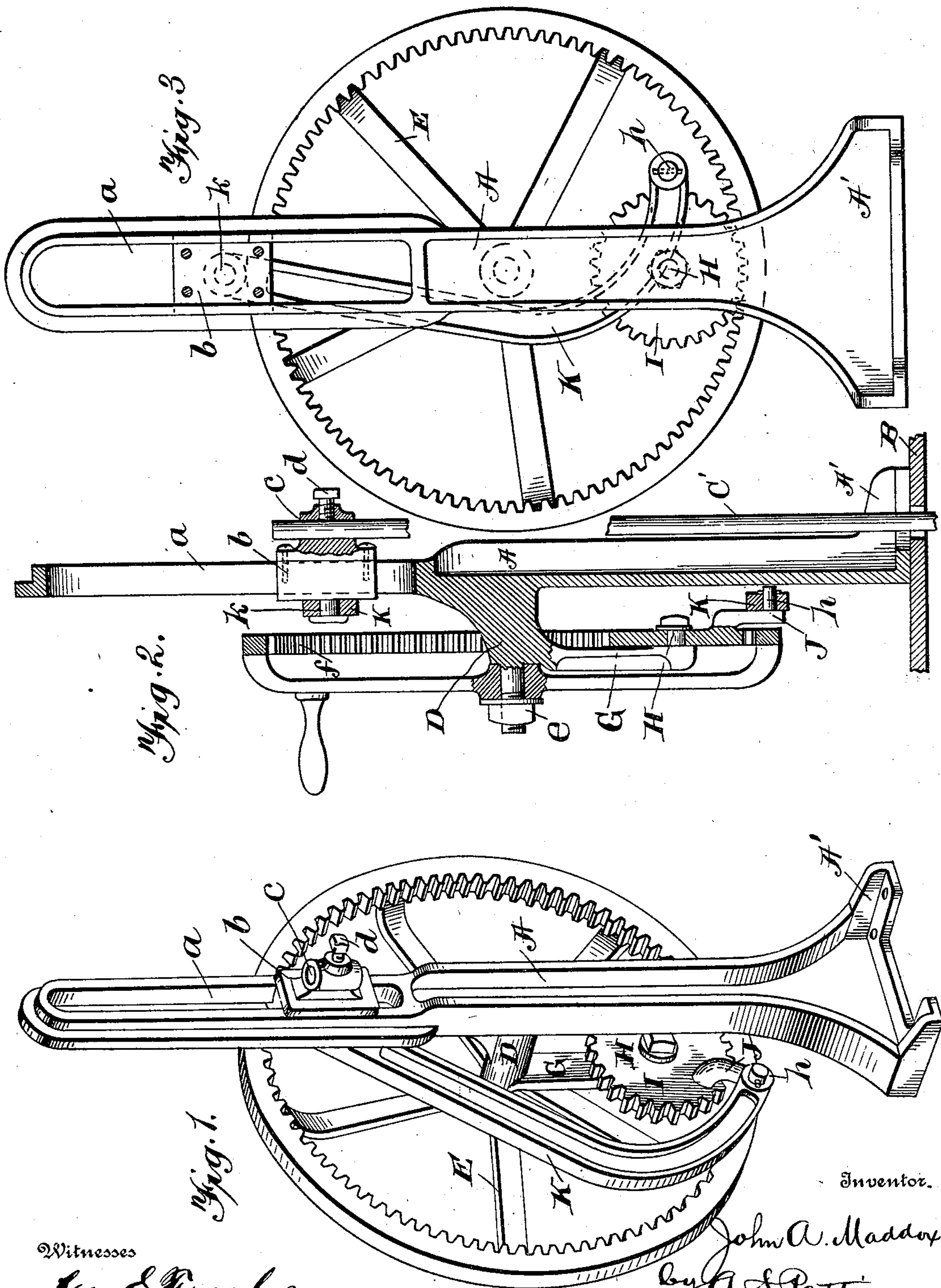
No. 704,064.

Patented July 8, 1902.

J. A. MADDOX.  
CHURN POWER.

(Application filed Oct. 5, 1901.)

(No Model.)



Witnesses

Geo. C. Frech.  
Chas. R. Wright

Inventor.

John A. Maddox,  
by A. S. Pattison,

Attorney



# UNITED STATES PATENT OFFICE.

JOHN A. MADDOX, OF WEST UNION, OHIO, ASSIGNOR TO HARVEY J. THOMPSON, OF WEST UNION, OHIO.

## CHURN-POWER.

SPECIFICATION forming part of Letters Patent No. 704,064, dated July 8, 1902.

Application filed October 5, 1901. Serial No. 77,671. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. MADDOX, a citizen of the United States, residing at West Union, in the county of Adams and State of Ohio, have invented new and useful Improvements in Churn-Powers, of which the following is a specification.

My invention relates to improvements in churn-powers, and pertains particularly to that class in which a reciprocating dasher is used.

The object of my invention is to provide a churn-power which is adapted to be readily attached to the cover of any churn in which a reciprocating dasher is used.

Another object of my invention is to provide a simple, cheap, and effective churn-power.

In the accompanying drawings, Figure 1 is a perspective view showing the power attached to an ordinary hand-operated churn. Fig. 2 is a vertical sectional view. Fig. 3 is a side view of my device.

Referring now to the drawings, A represents a standard which has a lower enlarged base A', having vertical openings, by means of which it is secured to the top of the churn-body B by bolts or screws, as desired. The churn may be of any desired construction and is provided with the upwardly-extending dasher-shaft C'. By this construction it will be seen that my device can be readily removed from one churn and placed upon another. The upper portion of the standard is provided with an elongated vertically-arranged slot a, which has mounted therein the slide b, which has on one side an outwardly-extending vertically-arranged socket c, adapted to receive the upper end of the dasher-shaft C', and said socket is provided with a set-screw d, by means of which the dasher-shaft may be secured therein in any desired position. The said standard A has a horizontally-arranged elongated projection below the elongated slot. The outer end of said horizontal projection is reduced and rounded in order that it might receive the drive-wheel E and form a bearing therefor, and the extreme outer end of said projection is screw-threaded and a nut e is screwed thereon, by means of which the drive-wheel is held thereon. The said drive-wheel

is dish-shaped, having the concaved face adjacent the standard, and the inner edge of the said wheel is provided with teeth, as clearly shown at f. The outwardly-extending arm or projection D has adjacent the wheel a downwardly-extending arm G, which may be made separate or as a part thereof, as desired; but the latter is desired, as clearly shown in the drawings.

The lower end of the arm G has a horizontally-arranged opening, and a screw H, carrying a small pinion I, is adapted to enter said opening and by means of which said pinion is rotatably mounted upon the said arm. The said pinion is adapted to mesh with the teeth carried by the inner face of the large drive-wheel and by means of which said pinion is caused to rotate. Rigidly secured to the side of said pinion, adjacent the standard and near the outer edge thereof, is an outwardly-extending arm J, which carries at its outer end a horizontally-arranged pin h, which has a transverse opening therein and a spring-key for securing the pitman thereon. Loosely secured on said pin is a curved pitman K, which extends upward and has its upper end loosely connected to a pin or stud k, carried by the slide b, which is within the elongated opening in the upper end of the standard A. By having the pitman curved it will not engage the arm D, carried by the standard A, and thus allow the pinion I to revolve and raise and lower the pitman, which in turn raises and lowers the slide b in the standard, and the dasher-shaft being secured thereto the dasher will be reciprocated.

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

1. A compact churn-power, comprising a standard having in its upper end an elongated slot, a horizontal arm extending from the standard at a point below the lower end of the slot, an outwardly-dished internal gear journaled to the outer end of the said arm, a depending arm connected with the said horizontal arm, the depending arm located within the dish of the said gear-wheel, a pinion journaled to the inner side of the said depending arm and meshing with the said internal gear, a slide in said slot, the pitman

having its inner end loosely connected with the slide at a point between the gear-wheel and the said standard, the lower end of the pitman loosely connected with the said pin-  
5 ion, and said pitman being curved to prevent interference with the said horizontal arm, substantially as described.

2. A compact churn-power, comprising a vertical standard having in its upper end an  
10 elongated slot, an arm projecting horizontally from the standard at a point below the lower end of the slot, a dish internal gear-wheel journaled to the outer end of the said arm, a depending arm connected with the outer end  
15 of the horizontal arm, and located within the dish of the internal gear-wheel, a pinion jour-

naled to the inner side of the lower end of said depending arm and in mesh with the internal gear, the pinion provided with an inwardly-projecting arm, a pitman pivotally  
20 connected to the said projecting arm, and a slide in the said slot, the upper end of the pitman being loosely connected with the slide at a point between the standard and the internal gear, substantially as described. 25

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN A. MADDOX.

Witnesses:

KILBY EDGINGTON,  
W. C. CORYELL.