

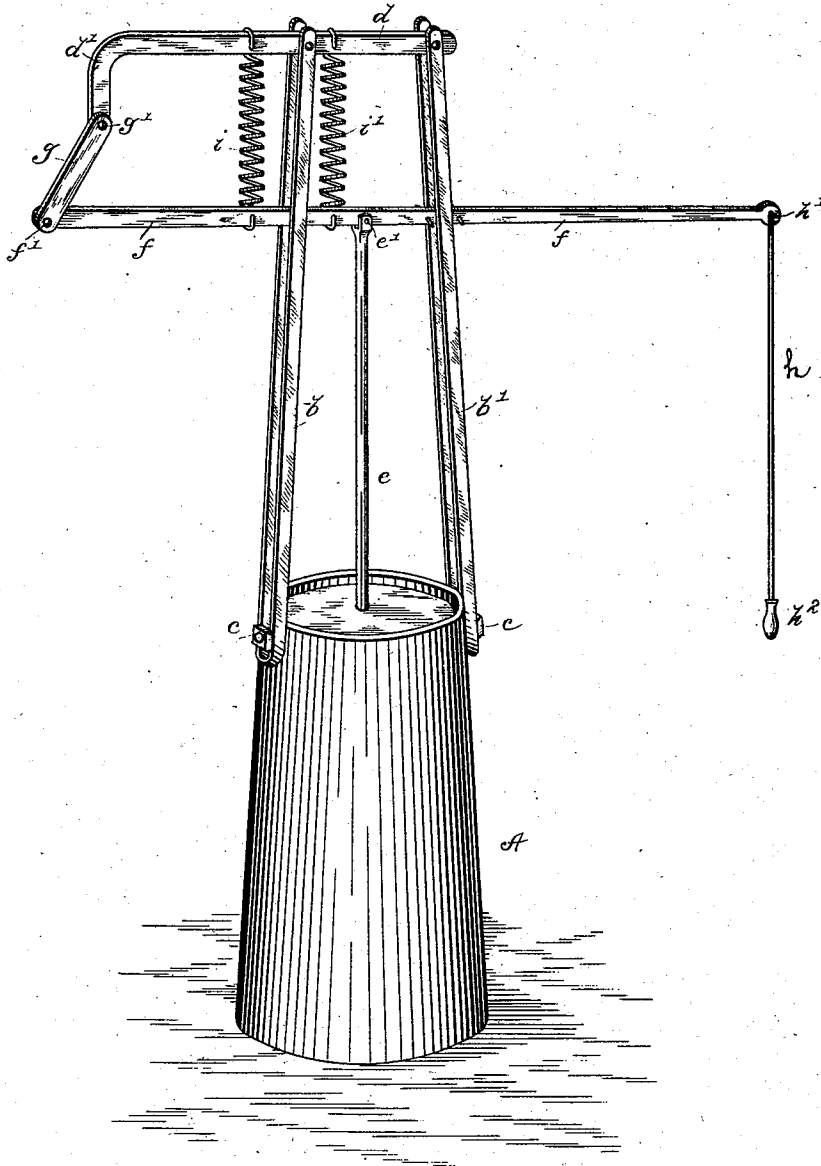
(No Model.)

W. G. PATTERSON.

OPERATING MECHANISM FOR CHURNS.

No. 376,752.

Patented Jan. 24, 1888.



Witnesses

Percy White.
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UNITED STATES PATENT OFFICE.

WILLIAM GRIMES PATTERSON, OF CLAYSVILLE, PENNSYLVANIA.

OPERATING MECHANISM FOR CHURNS.

SPECIFICATION forming part of Letters Patent No. 376,752, dated January 24, 1888.

Application filed March 16, 1887. Serial No. 231,136. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GRIMES PATTERSON, a citizen of the United States, residing at Claysville, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Operating Mechanism for Churns, &c.; and I do hereby declare the following to be 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.

The object of my invention is to produce a churn the dasher rod of which may be easily operated, and which shall be automatically and quickly raised after it has been depressed by the person using the churn.

To the above purposes my invention consists in certain peculiar and novel features of construction and arrangement, as hereinafter described and claimed.

In order that my invention may be fully understood, I proceed to describe it with reference to the accompanying drawing, in which the figure illustrates a perspective view of a churn-barrel with my improvements applied thereto.

In the said drawing, A designates the body or barrel of the churn, said body being placed in vertical position, as shown.

b b' designate two open uprights, which are secured at their lower ends to the sides of the churn-body by screws c c, so as to permit the ready attachment and removal of the standards. The standards b b' are braced together at their upper ends by a cross-bar, d, one end of which extends outward beyond the contiguous upright b, and is curved downward, as shown at d'.

e designates the dasher rod, the upper end of which is attached by a pivot, e', to the operating-lever f. The operating-lever f is pivoted at f' to the lower end of a link, g, the upper end of which is in turn pivoted at g' to the lower extremity of the curved end d' of the cross-bar d. The lever f extends outward be-

yond the upright b', and carries at its free extremity a pendent bar, h, which is pivoted at its upper end to the outer end of lever f, as shown at h'. The operating-lever f is sustained normally in horizontal position by two spiral springs, i i', which are secured at their upper ends to the cross-bar d at opposite sides of the upright b, and at their lower ends to corresponding points on the lever f, so that one spring lies between the uprights b b' and the other between the upright b and the curved portion d' of the cross-bar d. A handle, h², is formed upon or suitably secured to the lower end of the bar h, so as to be conveniently grasped by the operator's hand.

From the above description it will be seen that by pulling upon the bar h the lever f will be quickly depressed and impart a forcible downward movement to the dasher-rod e, and that as soon as the lever f is released from the pull the two springs i i' will draw the lever f upward with much force. The two springs i i' are so placed as to render the movements of the lever f very rapid and steady and relieve the fulcrum f' of the operating-lever from strain.

The entire device is simple and durable in construction, and may be readily applied to and removed from the churn-body.

I claim as new and desire to secure by Letters Patent—

The combination, with the uprights b b' and the cross-bar d, having the curved end d', of the operating-lever f, connected to the curved portion d' by the link g, and the springs i i', arranged as described, for sustaining and retracting the operating-lever, substantially as set forth.

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

WILLIAM GRIMES PATTERSON.

Witnesses:

CHESTER HOIR,
THOMAS RITZEL.