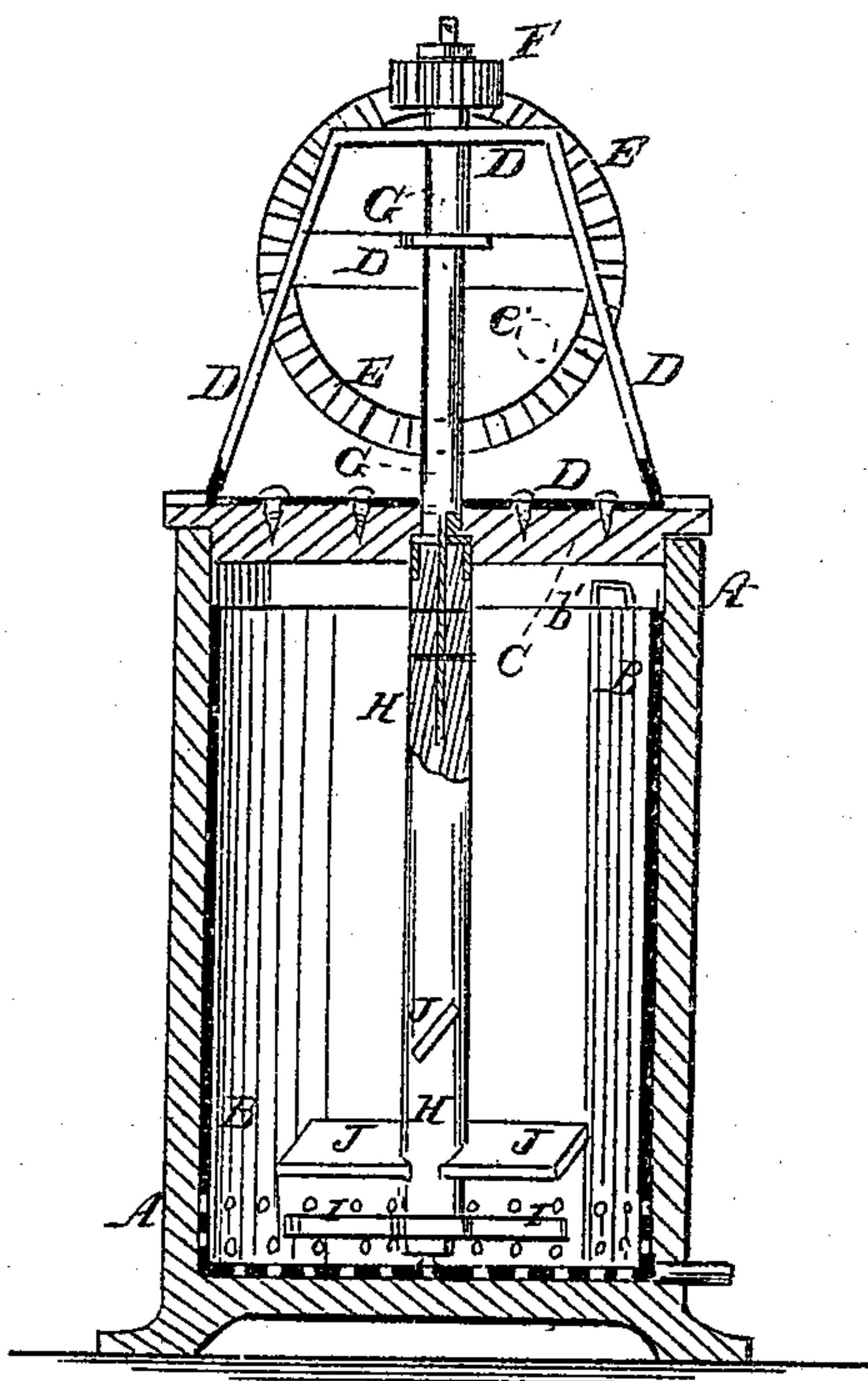


R. Wilson,

Churn.

No. 93,264.

Patented Aug. 3. 1869.



Witnesses:

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ROBERT WILSON, OF REES CORNERS, MARYLAND.

• Letters Patent No. 93,264, dated August 3, 1869.

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, ROBERT WILSON, of Rees Corners, in the county of Kent, and State of Maryland, have invented a new and improved Churn; 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 drawing, forming part of this specification.

The figure is a vertical longitudinal section of my improved churn, showing the parts in working-position.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved churn, simple in construction, convenient, efficient, durable, not liable to get out of order, and which may be manufactured at comparatively small cost; and

It consists in the construction and combination of the various parts, as hereinafter more fully described.

A is the body of the churn, which is made of the same size from top to bottom, and may be of any desired capacity.

B is a case, or strainer, which exactly fits into the churn A, but is made about two inches shorter than said churn.

The bottom of the strainer B, and the sides for about four inches above said bottom, are perforated with numerous small holes, as shown in the drawing, in the same manner as the bottom and sides of a cullender are perforated.

The strainer B is provided with ring or other handles, *b'*, at its upper edge, for convenience in putting it in and taking it out of the churn A.

C is the cover, which fits into the mouth of the churn A, and is made with a flange overlapping the upper edge of said churn, as shown in the figure.

The upper surface of the cover C is grooved transversely, to receive the base-bar of the tapering frame D, which is cast solid in one piece, and which is secured to the cover C by screws, as shown in the figure.

E is a gear-wheel, which works upon a spindle attached to or formed upon the centre of the middle cross-bar of the frame D, and to which is attached a crank-pin or handle, *e'*.

The teeth of the crank-wheel E mesh into the teeth of the small gear-wheel F, attached to the upper end of the rod G, which passes down through and works in holes formed for it in the upper, middle, and lower cross-bars of the frame D, as shown in the drawing.

The lower part of the rod G is flattened, to fit into a slot in the upper part of the dasher-handle H, where

it is detachably secured in place by pins, as shown in the drawing. The upper or slotted end of the dasher-handle H should be strengthened by a band or ferrule, as shown.

I is the dasher, which is securely attached to the lower end of the handle H, and which should work close to, or very near the bottom of the churn.

J are wings, or inclined cross-slats, attached to the handle H, above the dasher I, as shown in the figure, to assist in agitating the milk or cream.

The lower end of the dasher-handle H is pivoted to the bottom of the churn A or strainer B, by means of a pivoting-pin and socket, in the ordinary manner. In the case of small churns this will not be necessary.

It should be observed that the upper end of the dasher-handle H enters a countersink of the hole through the cover C, so that it may serve as a stop, to prevent the rod G from rising to throw the gear-wheel F out of gear with the crank-gear wheel E.

The churn may be operated by hand, treadle, or any other convenient power.

In using the churn, the strainer B is inserted in the churn A, and the milk or cream to be churned is poured in. The dasher-handle H is then secured to the rod G, and the dasher-cover and gearing adjusted in place.

When the churning is completed, the cover and gearing are raised and detached from the dasher-handle. The strainer B is then raised, the buttermilk flowing through the holes in the lower part of the said strainer. The butter is then turned out of the strainer B into the working-vessel.

The buttermilk may be drawn off through a hole in the lower part of the churn A, said hole being closed with a plug, or other suitable device.

The churn may be used either with or without the strainer B. This enables the dasher and gearing to be attached to the cover of an ordinary churn, and thus used with good results.

Having thus described my invention,

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

The churn, composed of the outer wooden body or case A, the metallic strainer B, provided with the handle *b'*, dasher-rod and dasher G H J I, small gear-wheel F, bevel-gear wheel E, supporting metallic frame D, and cover C, all constructed, arranged, and operating in the manner herein shown and described.

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