

George S. Coleman's Improved Butter Worker.

No. 119,575. Patented Oct. 3, 1871

Fig. 1.

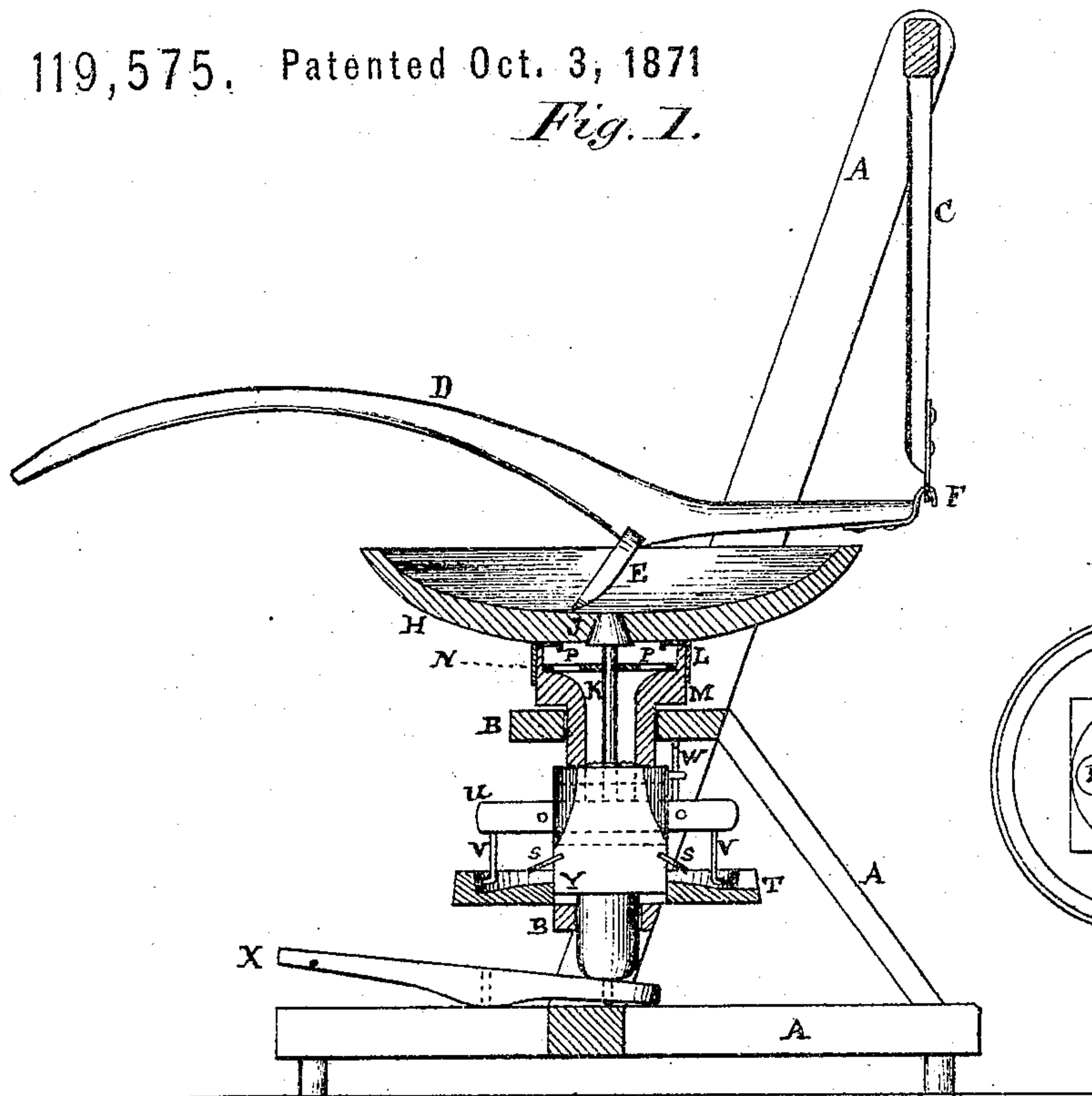


Fig. 3.

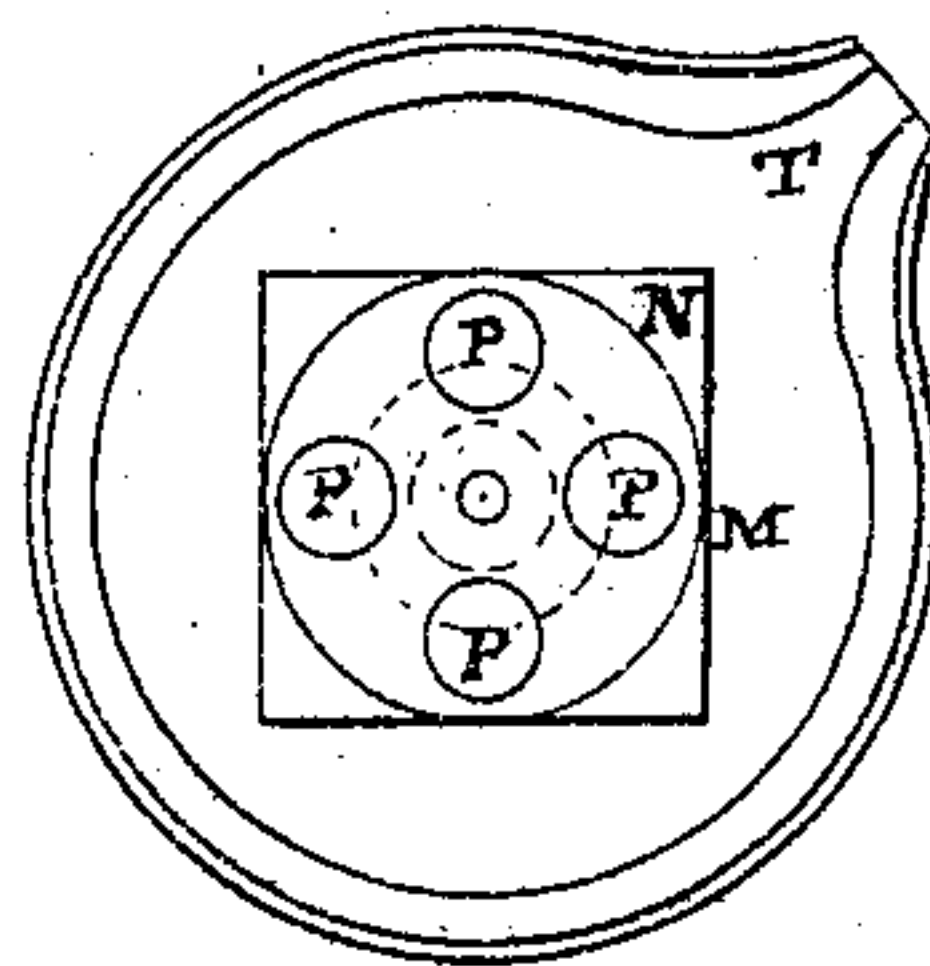
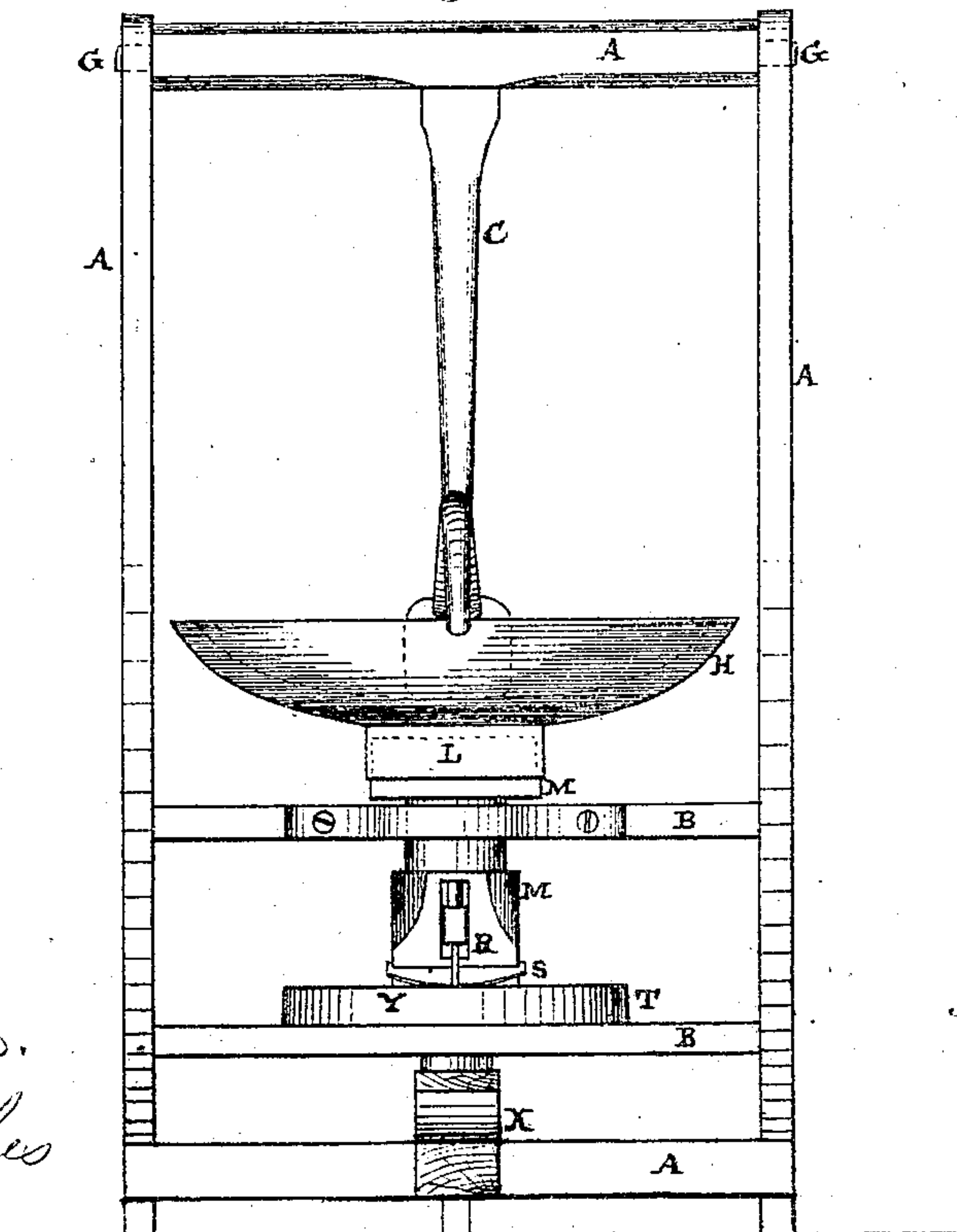


Fig. 2.



Witnesses:
Edw. F. Brown.
Alonso Hughes

Inventor:
George S. Coleman.
By his Atty.
J. F. Reigart.

UNITED STATES PATENT OFFICE.

GEORGE S. COLEMAN, OF ALEXANDRIA, VIRGINIA.

IMPROVEMENT IN BUTTER-WORKERS.

Specification forming part of Letters Patent No. 119,575, dated October 3, 1871.

To all whom it may concern:

Be it known that I, GEORGE S. COLEMAN, of Alexandria, Alexandria county, State of Virginia, have invented an Improved Butter-Worker; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification, in which—

Figure 1 represents a side sectional elevation of the butter-worker; Fig. 2, a front view of the same; Fig. 3, a top view of the spindle, with its apertures for conducting the butter-milk down to the receptacle for discharging the butter-milk.

The nature of my invention consists in the construction of the handle and its ladle, the square cast-iron bottom of the bowl, the wooden screw in the center upon which the bowl rests, the guides that move around with the bowl as it is turned to discharge the butter-milk, incline boards for throwing off or conducting the butter-milk from the spindle to the receptacle beneath, and the center aperture of the bowl, in which the head of the screw operates to discharge the butter-milk from the bowl.

A represents the upright frame that supports the devices; B B, the cross-braces of the frame in which the spindle revolves; C, the central arm of the cross-piece A at the top of the frame, to which the curved handle D (with its ladle E) is attached by a hook and eye, F, as a universal joint, and the cross-piece A working on journals G G, so that the handle can be moved in any direction to press the ladle E against the butter in any part of the bowl H, the ladle being set at an inclination from the handle D and rounding in front, to press more easily upon the butter as it is collected into a lump. The bowl H has an aperture, J, in the center, in which the head of the wooden screw K fits, and upon which head the bowl is lowered or raised when required to allow the butter-milk to pass off down through the aperture. Attached to the lower side of the bowl H is a flanged square iron bottom, L, that fits and rests firmly upon the square head of the spindle M, and fitting into this head M is a circular metal plate, N, with four apertures, P, that lead into the hollow center of the spindle M through which the butter-milk passes and out of

the oblong aperture R, (extending through the spindle M,) flowing down and over the two incline boards S S into the receptacle T, from whence it is discharged into a crock or bucket on the outside. The center screw K is screwed into a cross-piece, U, (that extends through the oblong aperture R,) that has a wire guide, V V, at each end that rests upon the receptacle to support the cross-piece U as it moves around with the bowl when the bowl is being turned to discharge the butter-milk, and as the spindle operates up and down. Another wire guide, W, is attached to one end of the cross-piece U, passing through an eye set into the spindle, and rests or projects against the lower side of the upper cross-brace B of the frame to preserve the accuracy of the movement of the spindle, keeping it in its proper place as the bowl is moved around.

The operator with his foot upon the treadle X raises the spindle when the bowl is being turned one-fourth around by the hand. The square sides of the spindle at Y fit into the corresponding square mortise of the receptacle T, and the lowered end of the spindle is rounded to a point that rests upon the end of the treadle. The raising of the treadle raises the spindle until its square bottom at Y is raised above the upper side of the receptacle, when the spindle turns around one-fourth, as the bowl is being turned, when the treadle is relieved of the foot and lowers its opposite ends and the spindle by its own weight falls into its place, and the butter is again worked by the operator. As the treadle X raises the bowl H the center aperture J is disconnected from the head of the pin K, and the butter-milk then flows down through the aperture J.

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

1. The bowl H, formed with a square cast-iron bottom L and with the center aperture J, as described, and for the purposes set forth.
2. The bowl H and the center-pin K, upon the head of which the bowl rests, in combination with the cross-piece U and guides V V, when arranged and operating as described, for the purposes set forth.
3. The hollow spindle M with its square head fitting into the iron bottom L of the bowl H, hav-

ing a top plate with apertures P P, a square bottom fitting into the receptacle T, incline boards S S, and receptacle T, when constructed, combined, and operating as described, and for the purposes set forth.

4. The curved and jointed handle D, ladle E, bowl H, spindle M, center-pin K, guides V V and

W, and receptacle T, when constructed, combined, and operating as described, and for the purposes set forth.

GEO. S. COLEMAN.

Witnesses:

J. FRANKLIN REIGART,
EDM. F. BROWN.