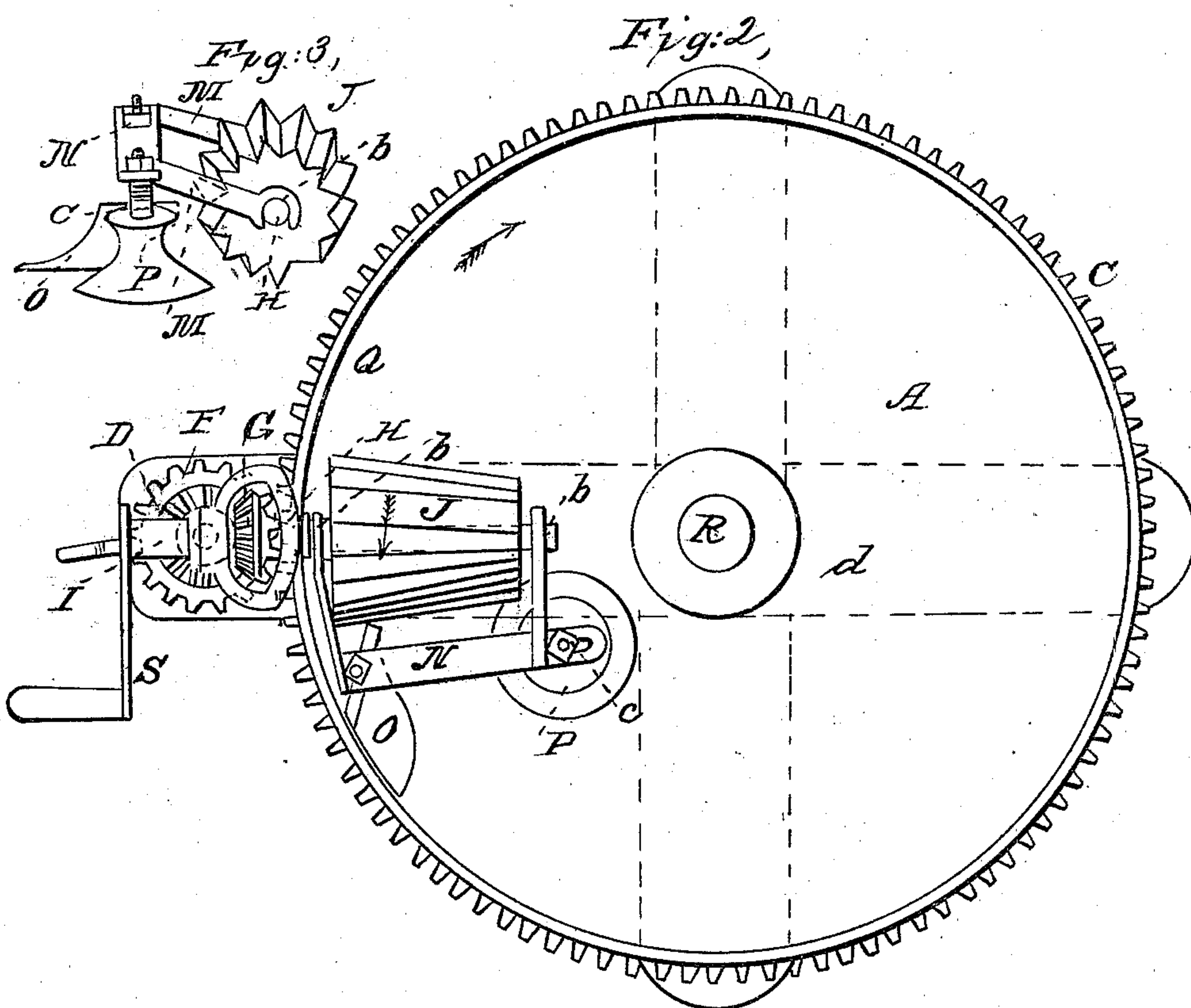
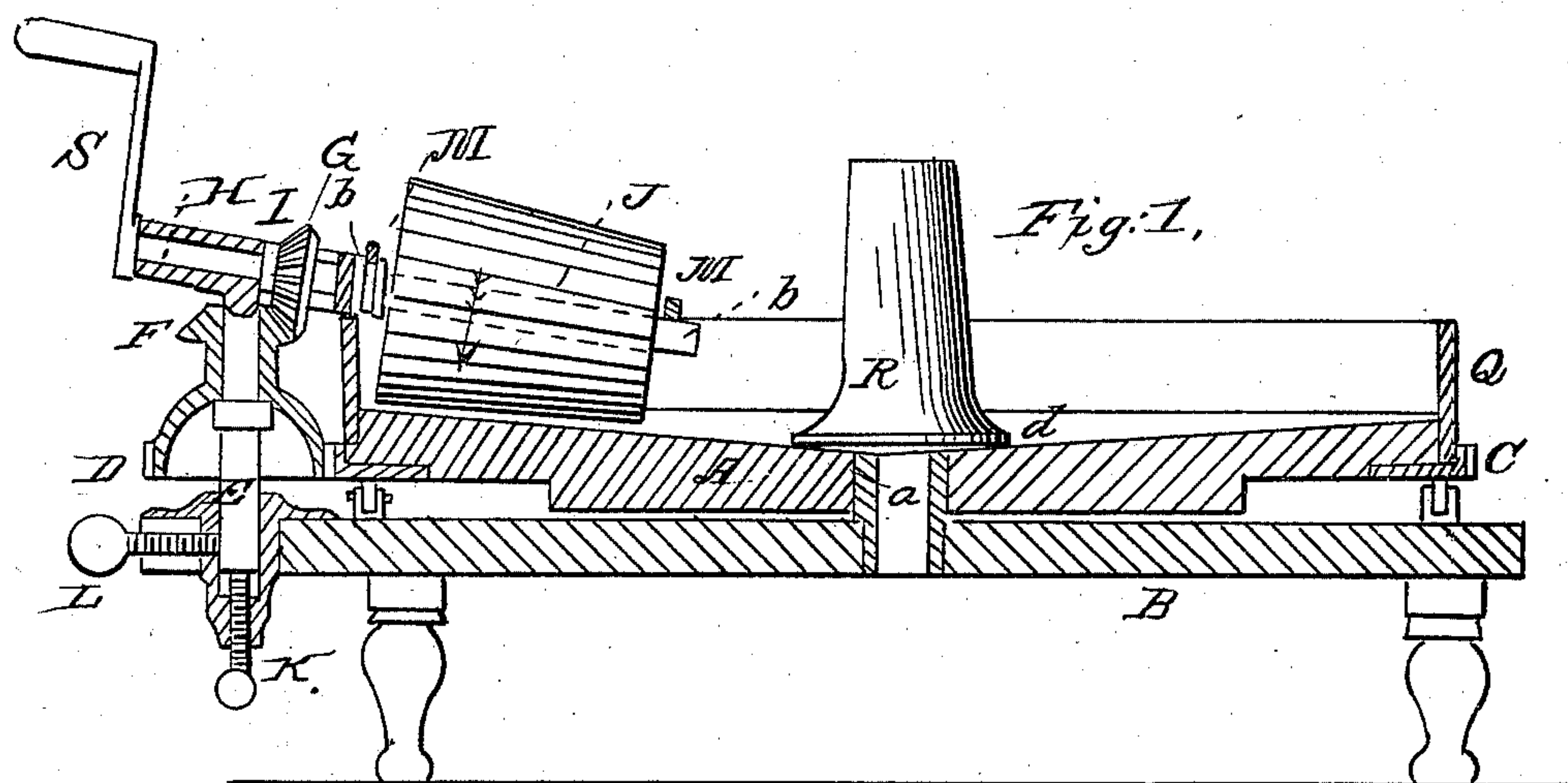


### Butter Worker.

No. 21,106.

Patented Aug. 3, 1858.





# UNITED STATES PATENT OFFICE.

N. W. BANCROFT, OF BURLINGTON, VERMONT, ASSIGNOR TO HIMSELF AND H. M. PROCTOR,  
OF SAME PLACE.

## BUTTER-WORKER.

Specification of Letters Patent No. 21,106, dated August 3, 1858.

*To all whom it may concern:*

Be it known that I, N. W. BANCROFT, of Burlington, in the county of Chittenden and State of Vermont, have invented a new and Improved Butter-Worker; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a vertical central section of my improvement. Fig. 2, is a plan or top view of ditto. Fig. 3, is a detached perspective view of a portion of ditto.

Similar letters of reference indicate corresponding parts in the several figures.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, represents a circular and horizontal rotating wooden basin, having a concave bottom and provided with a hollow axis *a*, which passes through the center of a proper framing or support B. On the outer side of the basin A, a geared rim C, is attached and D, is a pinion which works in the rim C, said pinion being of shell form and fitted loosely on a vertical shaft E, which is placed in the framing B. On the upper part of the shell or pinion D, a bevel pinion F, is formed, said pinion gearing into a corresponding pinion G, which is placed on an inclined shaft H, fitted in a socket I, attached to the upper end of the shaft E. On the shaft H, a roller J, is placed, said roller being corrugated or fluted longitudinally and made of taper form. This roller is constructed of wood, and placed within the basin A, and its lower edge may be adjusted at a greater or less distance from the bottom of the basin A, by elevating or depressing the shaft E, which is readily done by adjusting a screw K, into the upper end of which, the lower end of the shaft E, is stepped, see Fig. 1.

L, is a set screw by which the shaft E, is kept firmly in position.

M, M, are two bars the upper ends of which have hooks *b*, formed on them, one on each bar. These hooks are fitted over the roller shaft H. The front ends of the bars M, M, are attached to a bar N, and to one end of this bar a share or curved plate O, is

secured, and to the opposite end a vertical pendent pin *c*, is attached, said pin fitting into and forming the axis of a roller P, the periphery of which is of curved form as shown clearly in Fig. 3. The pin *c*, merely fits loosely into roller P, the latter resting on the bottom of the basin. The outer edge of the share or curved plate O, is in contact or nearly in contact with the inner side of the rim Q, of the basin, and the roller P, is at the inner end of the roller projecting a short distance beyond it, and extending nearly to the shoulder *d*, of a pin R, which is fitted in the hollow axis *a*, see Fig. 1.

The operation is as follows:—The butter to be worked is placed in the basin A, and the shaft H, rotated by means of a crank S. The roller J, and basin A, are rotated in the direction indicated by the arrow. The latter will consequently be conducted the roller J, the share or bent plate O, and roller P, throwing the butter directly in front of and under the roller. The roller compresses the butter milk from the butter and the butter may be subjected to a greater or less pressure by adjusting the screw K. The basin A, is rotated a sufficient length of time to subject the butter to a requisite degree of working to expel all the butter milk which may be let off from the basin by removing the pin R. The pin R, from the shoulder *d*, upward is made taper and concave so as to have a tendency to throw the butter from the center of the basin outward toward its rim Q.

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

1. The combination of the roller P, with the roller J, and share O, substantially as and for the purposes herein shown and described.

2. I also claim the combination of the double-gearred shell pinion D, with the basin A, adjustable shaft H, socket E, I, and pinion G, substantially as shown and described, so that by turning the screw K, the shaft H, may be raised or lowered and the height of the roller J altered at pleasure.

N. W. BANCROFT.

Witnesses:

T. E. WALES,  
JNO. B. WHEELER.