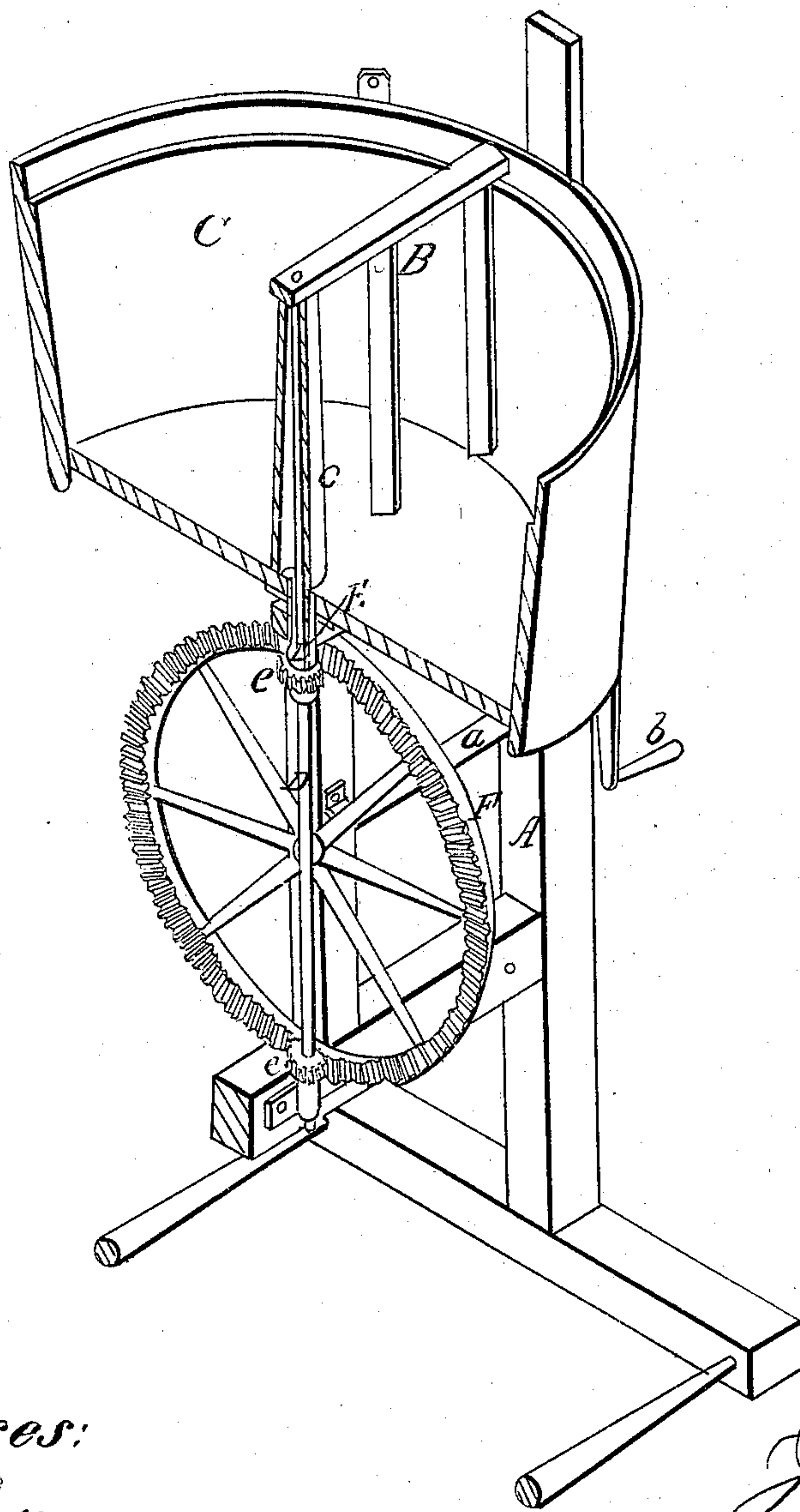


J. Oatthoudt,

Churn.

No. 80652.

Patented Aug. 4. 1868.



Witnesses:

~~J. Alfred Ellis~~
J. V. White

Inventor.

J. Cothoudt
per S. H. Alexander
Atty.

United States Patent Office.

JOSIAH OOTHOUDT, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR TO HIMSELF
AND HENRY C. JERAULD, OF SAME PLACE.

Letters Patent No. 80,658, dated August 4, 1868

IMPROVEMENT IN CHURN.

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, JOSIAH OOTHOUDT, of Minneapolis, in the county of Hennepin, and State of Minnesota, have invented certain new and useful Improvements in Churns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which drawing is represented a view of my churn, partly in section and partly in perspective.

The object of my invention is to provide a simple, cheap, and expeditious means for churning; and the nature of it consists in the employment of two shafts, one being hollow, and fitting over the other, and attached to the churn and dasher respectively; and operated by means of a bevelled wheel, gearing with pinions placed on the shafts, substantially as hereinafter described.

To enable others skilled in the art to make and use my invention, I will now describe its construction and operation.

A represents a frame, to which my devices are attached. C represents a section of the tub or churn, which is furnished with a lid. In the centre of this tub is a stationary casing or shell, *c*. D designates a long shaft, placed in a vertical position, and having its lower end working in a box, fastened to one of the pieces of the frame. The opposite end of this shaft, or that portion of it situated within the tub, is encased by the shell or casing *c*. The shaft D is also furnished at its lower end with a bevelled pinion, *e*, which gears into the wheel F, and upon the upper end of this shaft is placed the dasher B, which has its bearing-surface on the casing *c*. E represents a hollow shaft, having a portion of its surface broken away in the drawing, and encircling the shaft D. The upper end of this shaft is formed with a flange or cap, by means of which it is screwed or fastened to the under side of the tub C, its lower end being provided with a bevelled pinion, *e*, which also gears with the wheel F, and secured in place by means of a box to the frame A. F designates the bevelled wheel, by means of which motion is communicated to the churn and dasher, and is permanently secured to one end of a shaft, *a*, which has its bearings in boxes fastened to the side of the frame, and is placed at right angles with the wheel F. The opposite end of the shaft *a* is supplied with a crank, to which is secured the handle *b*.

Thus it will be seen, from the foregoing arrangement, that while my churn is in operation I obtain two motions, one of the tub, in which the contents for churning are placed, and the other from the dasher, the two revolving in opposite directions, and thus causing the work to be performed in a much shorter time than by the ordinary process of churning.

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

The tub C, dasher B, sleeve or casing *c*, hollow shaft E, wheel F, shaft D, and gear *e e*, when all are combined and arranged substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

JOSIAH OOTHOUDT.

Witnesses:

CHAS. A. FULLER,
THOMAS LOWRY.