

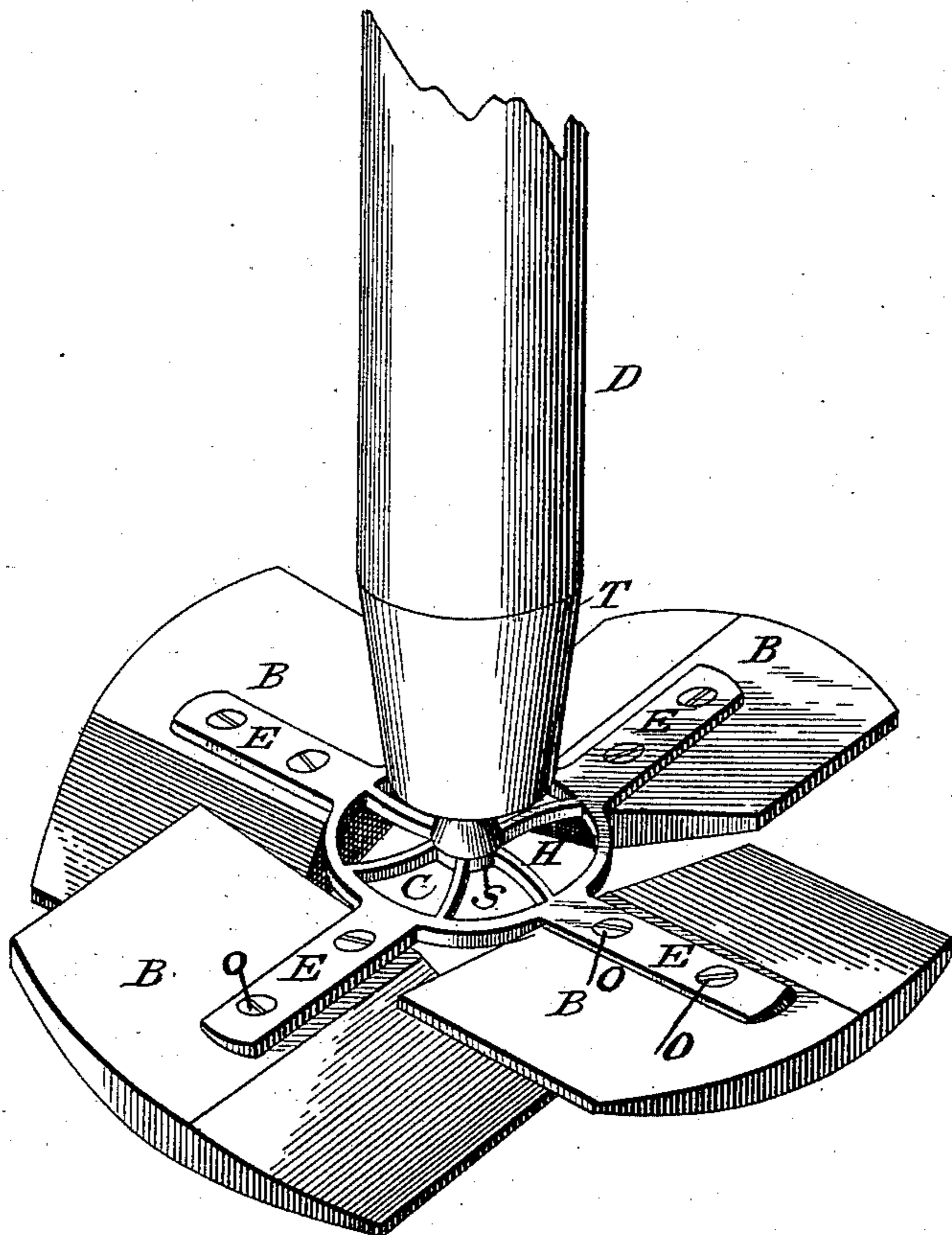
(Model.)

J. E. FINLEY.

CHURN DASHER.

No. 294,024.

Patented Feb. 26, 1884



Witnesses:

J. S. Galloway
E. A. Heuser

Inventor:

John E. Finley

UNITED STATES PATENT OFFICE.

JOHN E. FINLEY, OF MEMPHIS, TENNESSEE.

CHURN-DASHER.

SPECIFICATION forming part of Letters Patent No. 294,024, dated February 26, 1884.

Application filed August 18, 1883. (Model.)

To all whom it may concern:

Be it known that I, JOHN E. FINLEY, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Improvement in Churn-Dashers; and I hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to improvements in churn-dashers constructed of a cross of metal with a central disk made of the same metal and being a part of the same. The arms of the cross of metal are set at an angle of about fifteen degrees. To these arms I attach sections of wood sharpened at each end like a wedge, and made of segmental shape, so as to conform to the shape of the ordinary churn-tub, while the disk or central part of the casting or cross is perforated, to allow the fluid to pass through the same. When the dasher is operated, the arms of the dasher being set at an angle of about fifteen degrees, it will revolve as it passes through the fluid in churning. By tightening the screw the milk is forced through the angles of the dasher and through the central disk. This object is accomplished by raising and lowering the dasher-staff. The sections of wood, being placed at an angle, cause the milk to be forced through the hub or disk and the other parts of the dasher when the same is held stationary by the tightening of the screw.

My object is to supply a churn-dasher which requires much less power to operate than the ordinary churn-dasher; and I attain this object by the mechanism illustrated in the accompanying drawing, in which the figure is a perspective view, showing the improved dasher.

D is the staff of the dasher, to the lower end of which is attached the thimble T. E E E E

represent the four arms of the cross or casting C, to which are secured the sections of wood B B B B by means of screws O O. The sections of wood are secured at an angle of about fifteen degrees on each of the four arms of the metal cross. In the center of the disk of this casting there is a hub, H, through the center of which passes the screw S, which enters the staff D, so as to firmly hold the dasher in position when the same is operated, and at the same time act as a spindle, on which the dasher revolves. The milk or cream is forced through the central part of the cross, E E E E, and through the angles formed by the same and the sections of wood B B B B, the sharp edges of which break the globules containing the butter, which, with the revolutions of the dasher, will hasten the process of butter-making. The ends of the casting E E E E, to which are attached the wedge-shaped sections of wood B B B B, are set at an angle of about fifteen degrees, all being set at the same angle. When the staff D is raised and lowered, as in churning, the dasher will revolve rapidly.

The dasher is constructed so as to be cheap and durable. The casting is made of malleable iron, and is not easily broken.

I am aware that in the construction and manufacture of churn-dashers various revolving churn-dashers with perforated disks and wooden sections attached to the arms of the castings have been employed; but

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

The churn-dasher herein described, consisting of the casting C, having central perforated hub, and provided with arms E E, having slanting ends, the segmental wedge-shaped sections of wood B B, attached to said ends, hub H, screw S, and staff D, as specified.

JOHN E. FINLEY.

Witnesses:

J. S. GALLOWAY,
E. A. YERGER.