

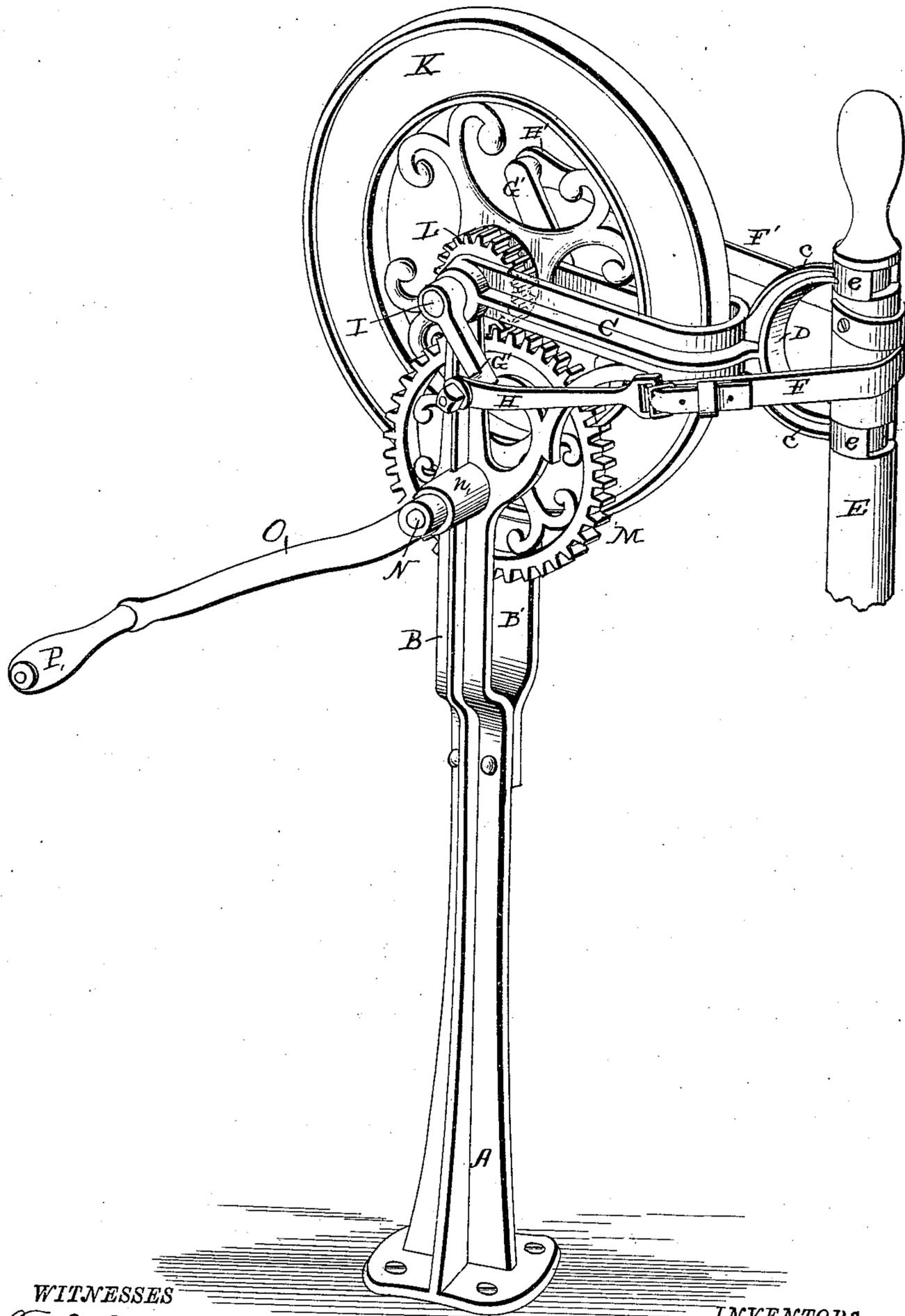
(No Model.)

D. C. & H. P. CAMP.

CHURN MOTOR.

No. 333,388.

Patented Dec. 29, 1885.



WITNESSES

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DAVID C. CAMP AND HENRY P. CAMP, OF GAINESVILLE, GEORGIA.

CHURN-MOTOR.

SPECIFICATION forming part of Letters Patent No. 333,388, dated December 29, 1885.

Application filed December 8, 1885. Serial No. 185,096. (No model.)

To all whom it may concern:

Be it known that we, DAVID C. CAMP and HENRY P. CAMP, citizens of the United States, residing at Gainesville, in the county of Hall and State of Georgia, have invented certain new and useful Improvements in Churn-Motors; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters and figures of reference marked thereon, which forms a part of this specification.

Our invention has relation to churn-motors; and the object of the invention is to convert a rotary into a reciprocating motion; and to this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

The present case is an improvement upon the invention for which Letters Patent No. 294,850, dated March 11, 1884, were granted to us.

The figure in the drawing is a view in perspective of our improved churn-motor.

A is the standard, and it is provided with a bifurcated upper end, B B', having an integral bifurcated arm, C, provided with a bracket, D, having arms *c c*. At the extremity of these arms are located two bearings, *e e*, in which the vertical shaft E is journaled. To this shaft E are secured the ends of two straps, F F',

which extend rearward, and are respectively connected to the pitmen H H', which in turn are connected to the cranks G G', rigidly secured to the main shaft I, so that as the shaft is rotated the cranks, pitmen, and straps will impart an oscillating motion to the shaft E. The main shaft I is provided with a balance-wheel, K, and a pinion, L, rigidly secured thereto.

M is a large gear-wheel meshing with the pinion L, and this gear is rigidly secured to the driving-shaft N, which is journaled in an arm, *n*, extending from the upper part, B, and this shaft is provided with a crank, O, and handle P, for operating the motor.

The operation of the device will be readily understood without further description.

Having thus described our invention, what we claim as new and useful, and desire to secure by Letters Patent of the United States, is—

The combination, with the standard A, having gear M, shaft N, and crank O, and the shaft I, having balance-wheel K, pinion L, and cranks G G', of the shaft E, straps F F', and pitmen H H', as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

DAVID C. CAMP.
HENRY P. CAMP.

Witnesses:

C. W. DU PRE,
H. W. MERCK.