

L. G. SWEET.
Machine for Operating Churns.

No. 223,258.

Patented Jan. 6, 1880.

Fig. 1.

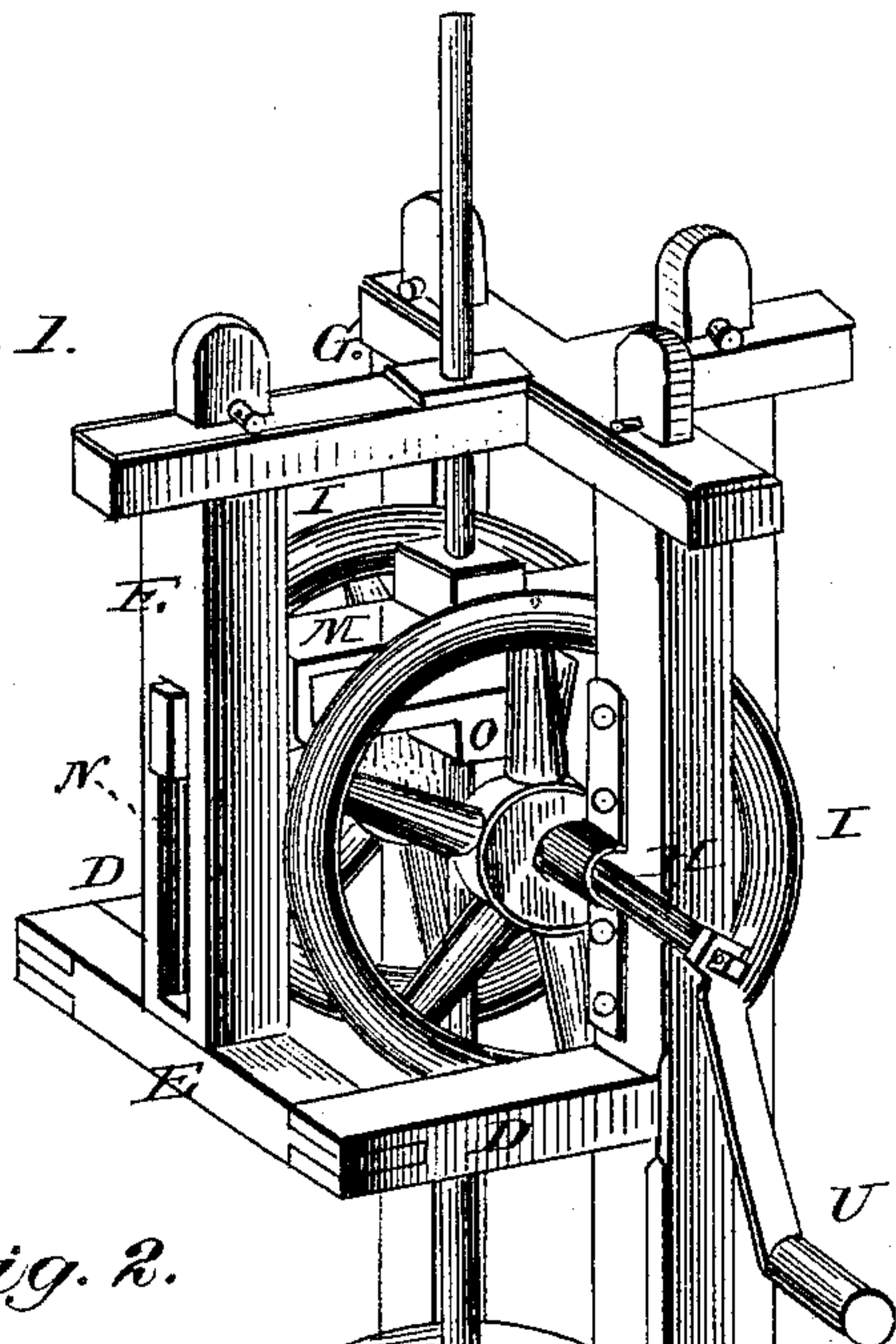


Fig. 2.

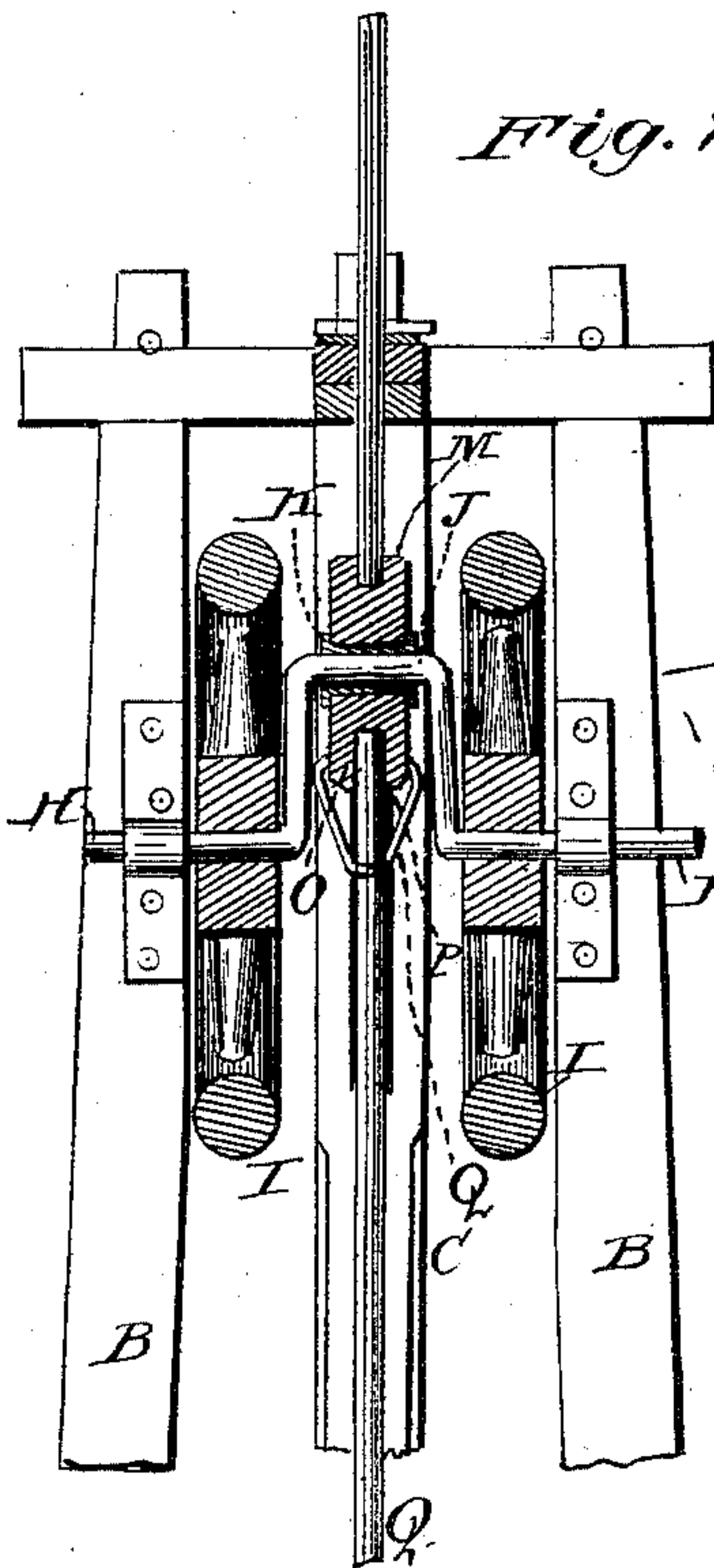
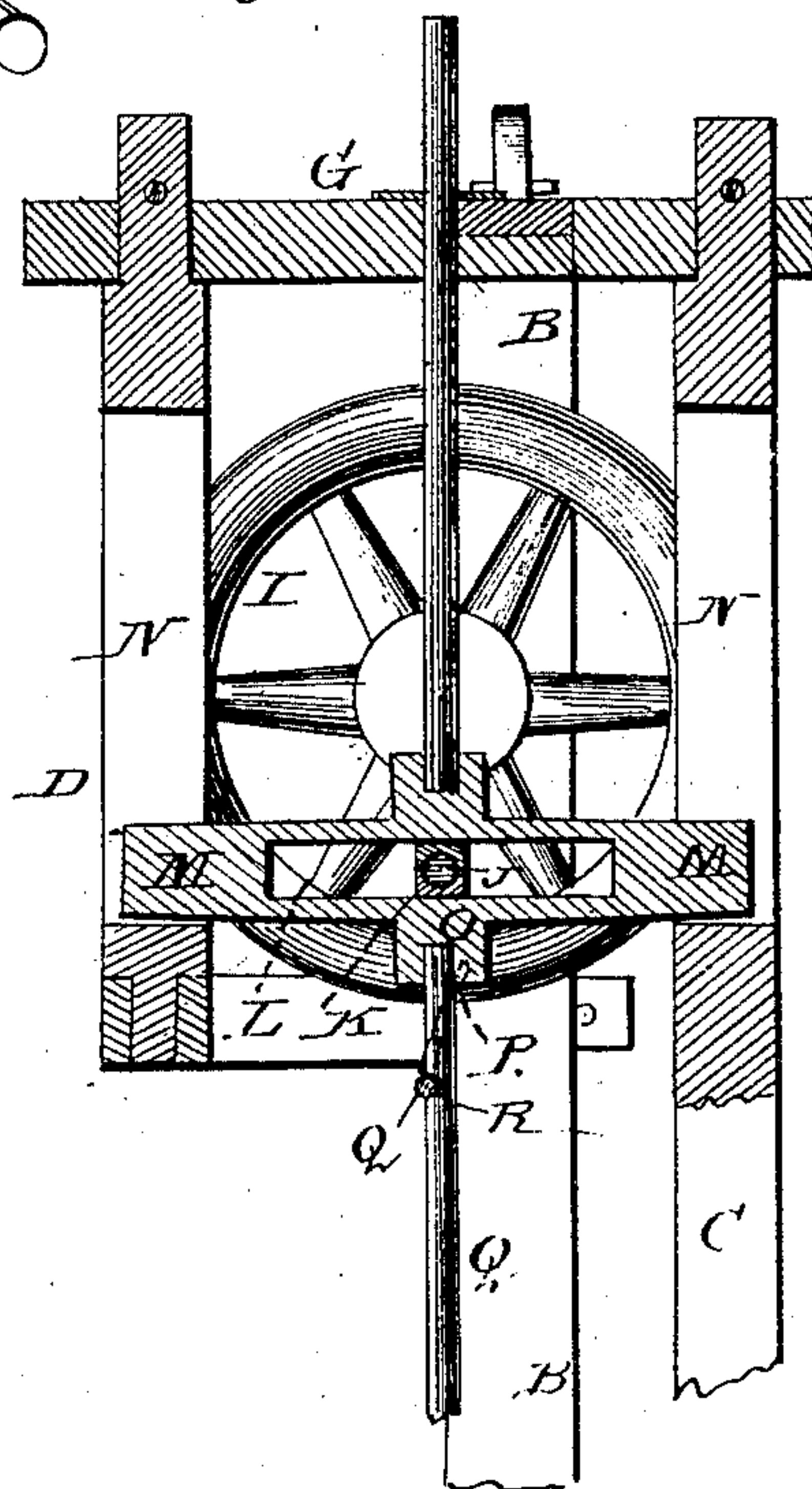


Fig. 3.



Witnesses:
Fred. G. Dietrich
J. R. Littell

Inventor
Leonard G. Sweet,
by *C. A. Snow and Co.*
Atty.

UNITED STATES PATENT OFFICE.

LEONARD G. SWEET, OF AMSTERDAM, NEW YORK.

MACHINE FOR OPERATING CHURNS.

SPECIFICATION forming part of Letters Patent No. 223,258, dated January 6, 1880.

Application filed December 1, 1879.

To all whom it may concern:

Be it known that I, LEONARD G. SWEET, of Amsterdam, in the county of Montgomery and State of New York, have invented certain new and useful Improvements in Machines for Operating Churns; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a vertical sectional view taken longitudinally through the crank-shaft, and Fig. 3 is a vertical sectional view of Fig. 2.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to an improved machine for operating that class of churns which are provided with vertically-reciprocating dashers; and it consists in the construction and arrangement of the parts constituting the same, which will be hereinafter fully described, and particularly pointed out in the claim.

In the annexed drawings, A represents a base provided with three uprights, B B C, the two former of which are provided with brackets D D, extending in a direction opposite to the upright C. The brackets D D are connected by a cross-piece, E, supporting a fourth upright, F, the top of which is connected with the upper ends of the remaining uprights by a cross-brace, G.

The uprights B B are provided with boxes or bearings for a crank-shaft, H, provided with balance-wheels I I, disposed one on each side of the crank. Upon the crank J of shaft H is adjusted a box, K, sliding in a horizontal slot, L, in a cross-head, M, adapted to slide

vertically between the uprights C F, which are provided with suitable slots N, to receive the ends of said cross-head. The lower side of the cross-head M is provided with a stud, O, having an opening, P, to receive the upper end of the dasher-staff.

Q is a bail, pivoted in the sides of the stud O so as to swing downward and enter a notch, R, cut in the side of the dasher-staff near its upper end, and thus attaching it securely to the cross-head.

The churn S is secured upon the base between the uprights B B C by means of cleats T.

The crank-shaft H may be operated by a hand-crank, U, or in any other suitable manner.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the annexed drawings. It is simple, inexpensive, durable, and may be advantageously used to operate any churns of the well-known old-fashioned construction.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improvement in churn-operating mechanisms, the frame A B B C D D E F G, crank-shaft H, having slide-box K, and the cross-head M, having slot L, and recessed stud O, having pivoted bail Q, all constructed, arranged, and operating as described, in combination with a dasher-staff having notch R, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

LEONARD G. SWEET.

Witnesses:

RICHARD PECK,
H. B. SHEPARD.