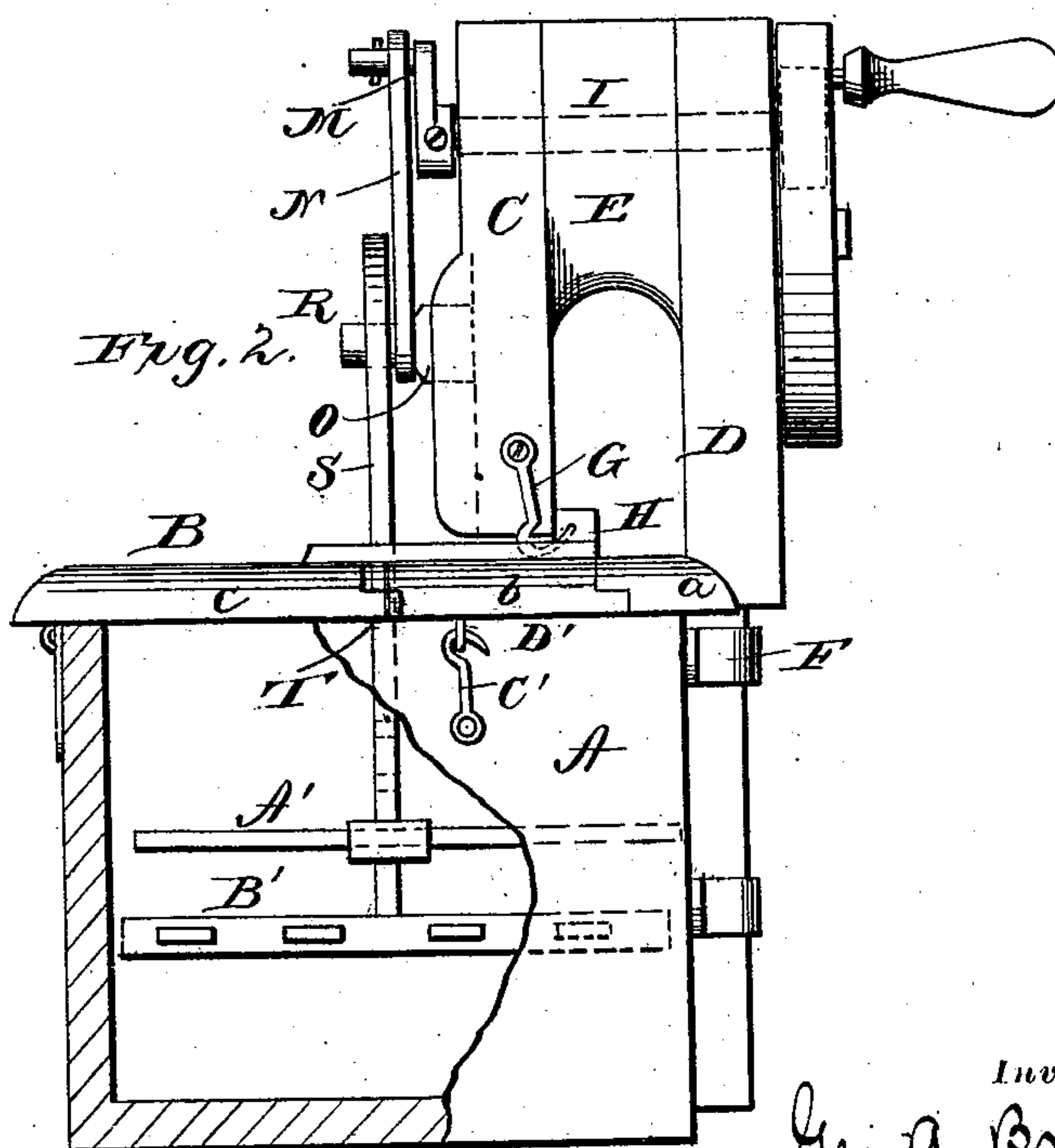
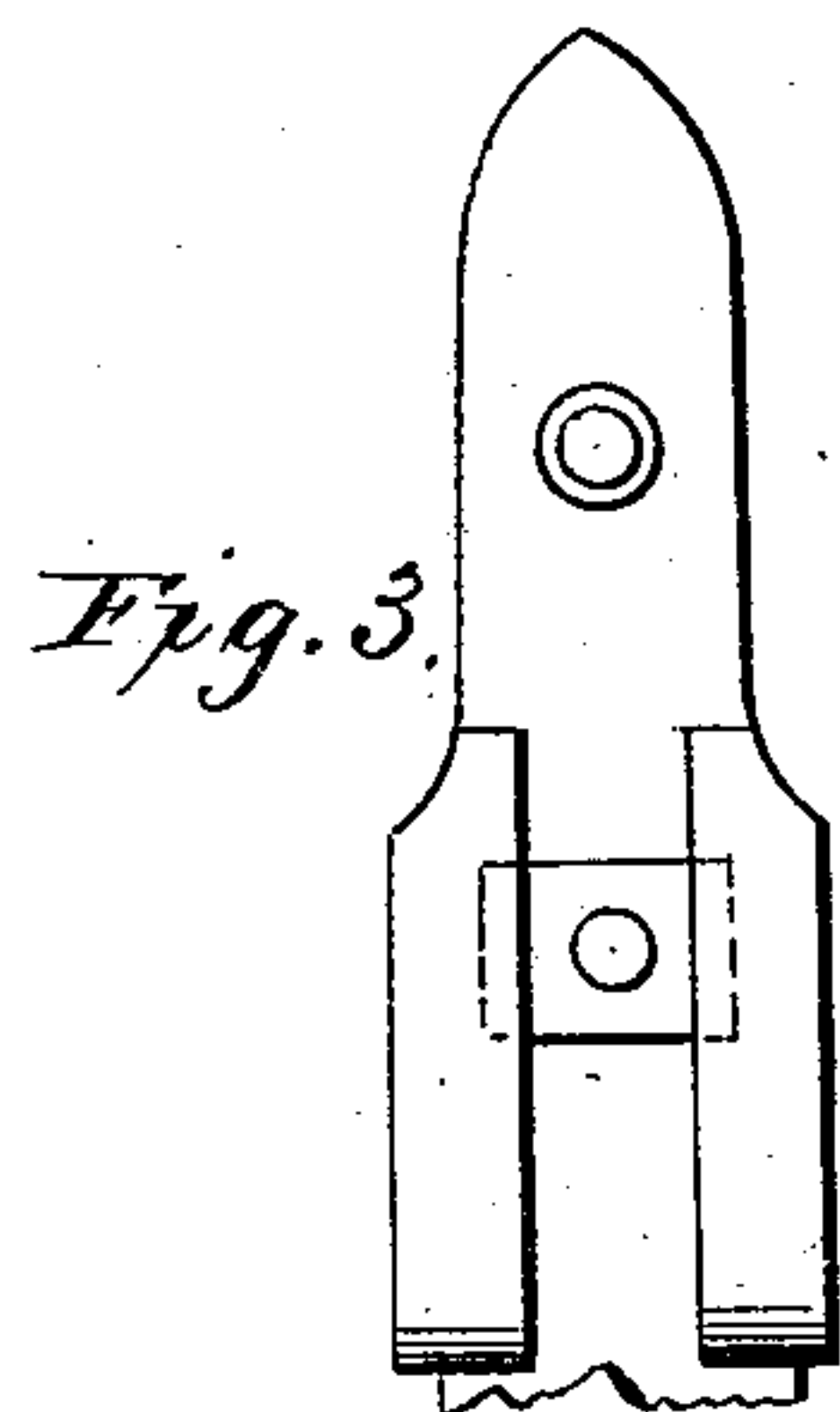
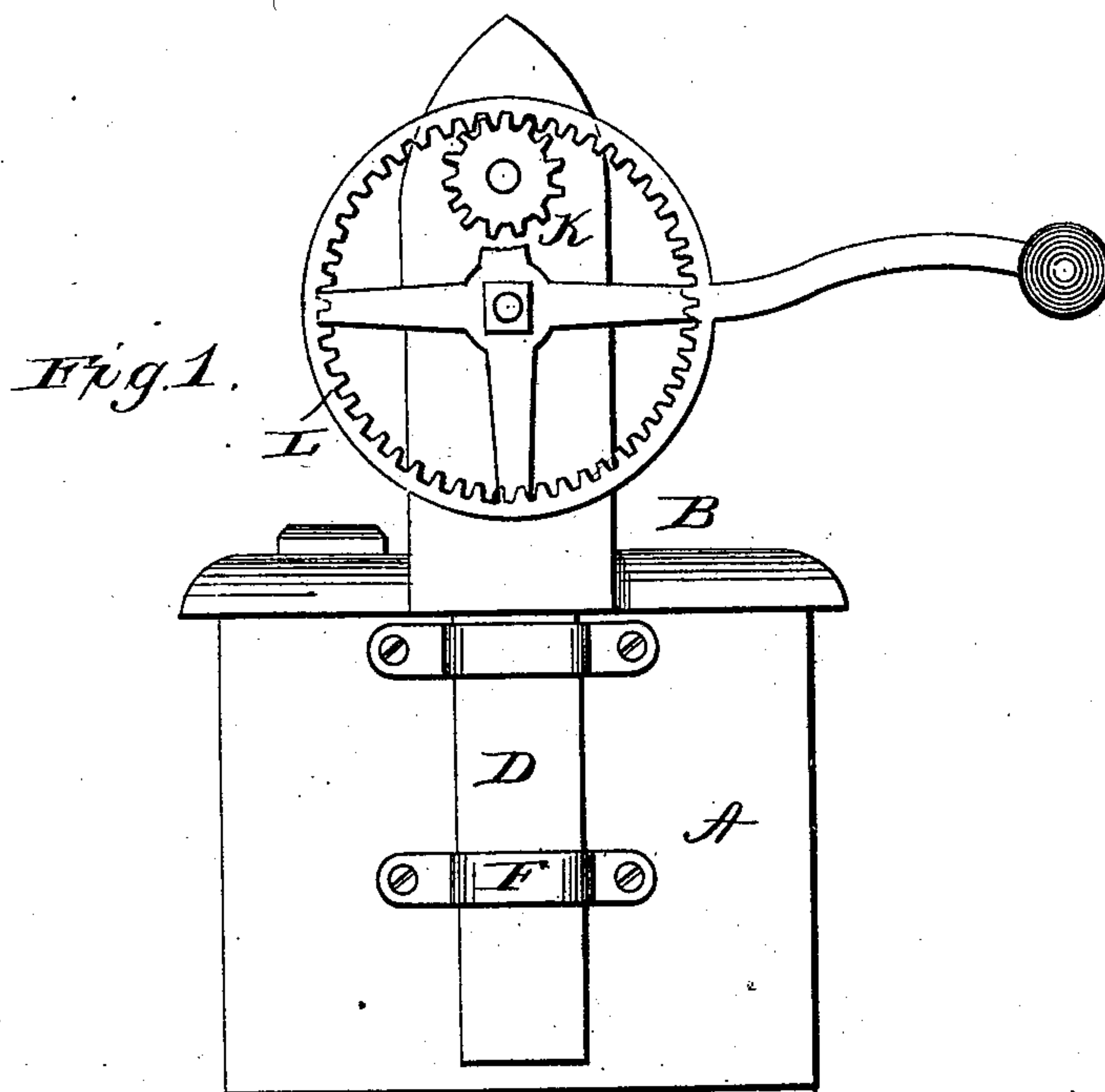


(No Model.)

G. A. BRENGLE.  
Churn-Power.

No. 226,704.

Patented April 20, 1880.



Witnesses:

A. L. Curran  
L. H. Bradford

Inventor:

Geo. A. Brengle  
By J. H. Ennis  
att'y.

# UNITED STATES PATENT OFFICE.

GEORGE A. BRENGLE, OF LIVONIA, INDIANA.

## CHURN-POWER.

SPECIFICATION forming part of Letters Patent No. 226,704, dated April 20, 1880.

Application filed March 2, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE A. BRENGLE, a citizen of Livonia, in the county of Washington and State of Indiana, have invented certain new and useful Improvements in Churn-Powers; and I do hereby 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 drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to an improved power attachment, which may be employed in various classes of machines, but which is especially designed to be used in connection with churns; and it has for its object to provide a system of mechanism which may be readily attached to and detached from a machine, and by which, when properly secured, a rotary motion can be converted into a reciprocating motion.

I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the entire machine; Fig. 2, an elevation with a portion of the walls broken away, and Fig. 3 a detached front view of a portion of the machine.

In the drawings, the letter A indicates a vessel, which may be of any size and shape and constructed of any suitable material. In the present instance it is rectangular and constructed of wood.

The letter B indicates the top of the vessel, which is constructed in three parts, *a b c*, the part *b* of which supports the upright standard C of the motive-power device.

The parts *b* and *c* are provided with lips *d*, which are adapted to set under the rabbets *e* and *g* of the portions *a* and *b* of the top, respectively, so as to hold said parts in position, the removable parts *b* and *c* being rabbeted at their edges in order to fit snugly into the top of the vessel.

The letter D indicates a vertical standard, to which the standard C is attached by means of a horizontal extension, E. The said standard D is adapted to set and fit in sockets F, secured to the side of the vessel, by which it is held in a vertical position, the lower end of the standard C resting upon the part *b* of the top B, and being secured to the same, when in position, by the hooks G and staples H.

The letter I indicates a horizontal shaft passing through the extension E and the standards C and D, and journaled in suitable bearings therein. The said shaft is provided at its outer end with a pinion, K, intermeshing with an internally-beveled gear-wheel, L, journaled to the standard D.

The inner end of said shaft is provided with a crank, M, to which is secured one end of a pitman, N, the other end of which is secured to a reciprocating slide, O, adapted to move vertically in ways P on the standard C.

To the connecting pivot or pin R of said slide is secured the upper end of the reciprocating rod S, which travels in a slot, T, formed at the junction of the two parts *b* and *c* of the top B.

In the present instance the said shaft carries a series of adjustable dashers, A', and is designed to be applied to a churn, and the opening at the slot is provided with a swiveled cover, B', which may be thrown over the aperture when the apparatus is not in use, to exclude dust from the vessel.

The various parts of the top are secured in place by the hooks C' and staples D'.

The operation of my invention will be readily understood from the above without further description.

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

1. A detachable motive-power attachment consisting of two upright standards, one adapted to fit into suitable sockets on the machine and the other to rest upon and be secured to the top of the machine, the said standard being provided with a horizontal shaft connected by a crank to a reciprocating rod, and with mechanism, as described, whereby it may be operated, substantially as specified.

2. The combination, with the standards C and D, the sockets F, and the hooks and staples G H, of the horizontal shaft I, the crank M, pitman N, and slide O, and the pinion and driving-wheel for operating the same, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE A. BRENGLE.

Witnesses:

DANIEL WILKINS,  
SUMNER W. PHILLIPS.