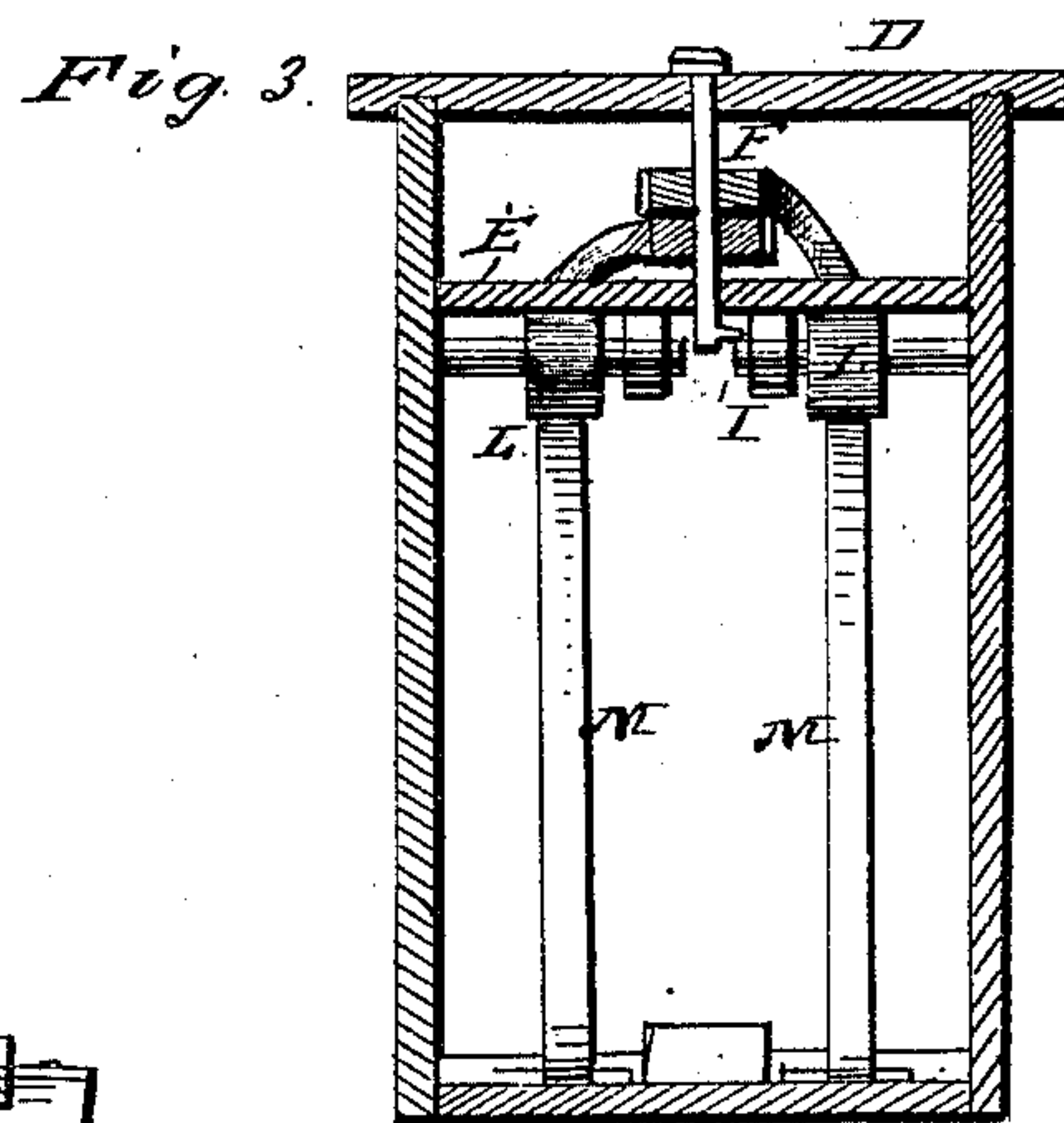
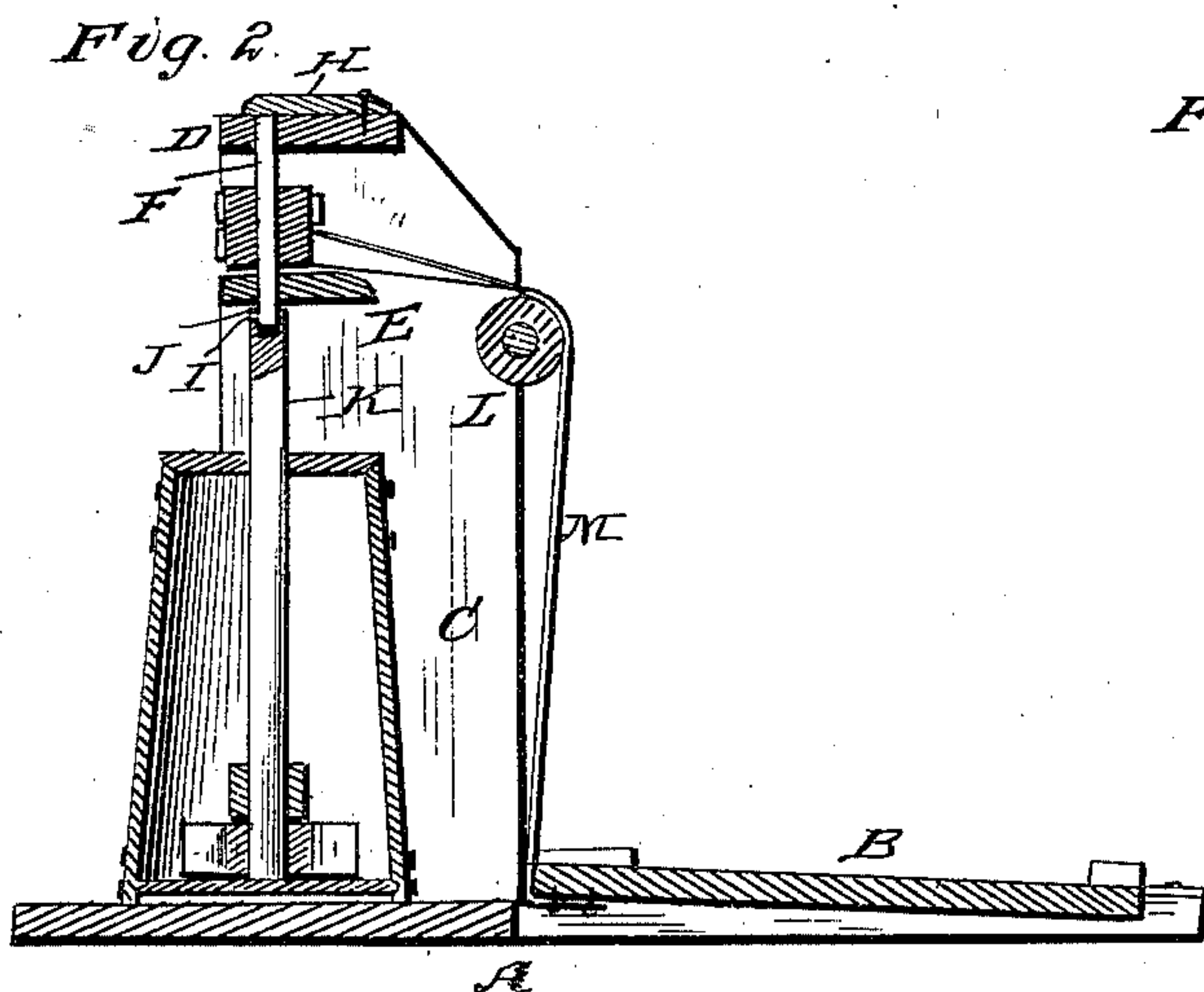
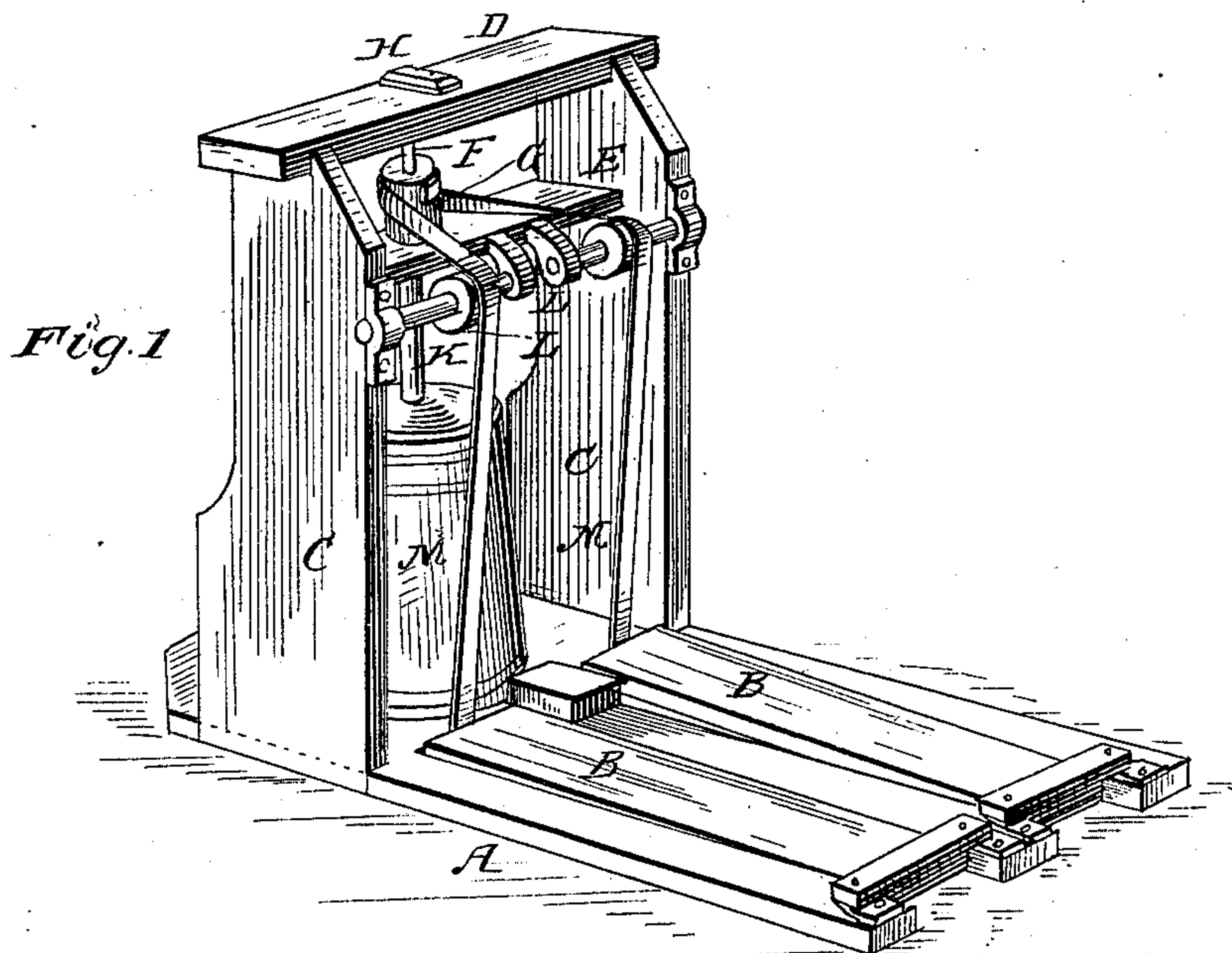


(No Model.)

C. S. WILEY.
Churn Motor.

No. 232,161.

Patented Sept. 14, 1880.



WITNESSES:
Fred G. Dietrich
R. L. Little,

C. S. Wiley
INVENTOR.
By his Attorneys A. Snow & Co.

UNITED STATES PATENT OFFICE.

CLEMENT S. WILEY, OF CHESTNUT, ILLINOIS.

CHURN-MOTOR.

SPECIFICATION forming part of Letters Patent No. 232,161, dated September 14, 1886.

Application filed July 9, 1880. (No model.)

To all whom it may concern:

Be it known that I, CLEMENT S. WILEY, of Chestnut, in the county of Logan and State of Illinois, have invented certain new and
5 useful Improvements in Churn-Motors; 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
10 reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a longitudinal vertical section, and Fig. 3 is a vertical cross-section.

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

This invention relates to churn-motors; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed
20 out in the claims.

In the drawings hereto annexed, A represents a base or platform, at one end of which two treadles, B B, are hinged. At its other
25 end the platform A is provided with two up-rights, C C, connected by cross-pieces D E, between which is journaled a vertical shaft, F, having a drum or pulley, G.

Upon the upper cross-piece, D, is pivoted a
30 slide, H, which may be adjusted over the bearing of shaft F, so as to keep the latter in position. When the bearing is uncovered by slide H the shaft may be slightly raised. At its lower end the shaft F is provided with a
35 cross-piece, I, adapted to enter a notch, J, in the upper end of the dasher-staff K of the churn, which latter is placed upon the base A, between up-rights C C. The lower end of the dasher-staff is journaled in the bottom of the
40 churn.

It will be seen that the dasher-staff may be coupled to shaft F, (by means of cross-piece I entering notch J,) thus causing the motion of said shaft to be communicated to the dasher.

To uncouple for the purpose of removing 45 the dasher it is only necessary to move slide H aside, when shaft F may be lifted sufficiently for the purpose indicated.

The cross-piece E is provided with brackets K K, between which horizontal pulleys L L are 50 journaled, as shown. Cords or straps M M, attached to the ends of the treadles B, are passed over said pulleys, wound in opposite directions around the drum or pulley G, and attached to the latter.

By working the treadles a rapid oscillating motion is thus imparted to shaft F, and through it to the dasher, which motion I have found highly efficient and desirable in the manufac- 55 ture of butter.

But little labor or exertion is required to operate the machine, which is simple, durable, and convenient.

Having thus described my invention, I claim and desire to secure by Letters Patent of the 65 United States—

1. The combination of the treadles B B, pivoted or hinged at one end of a base, A, with the vertical shaft F, journaled in cross-pieces connecting two up-rights at the other 70 end of said base, the guide-pulleys L L, and the cords or straps M M, attached to treadles B and shaft F, around which latter they are wound in opposite directions, as set forth.

2. The combination of the shaft F, having 75 cross-piece I, and journaled, as shown, in bearings, the upper one of which is covered by a pivoted slide, H, with the dasher-staff K, having notch J, 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.

CLEMENT S. WILEY.

Witnesses:

JOHN W. HARP,
JOHN D. ISRAEL.