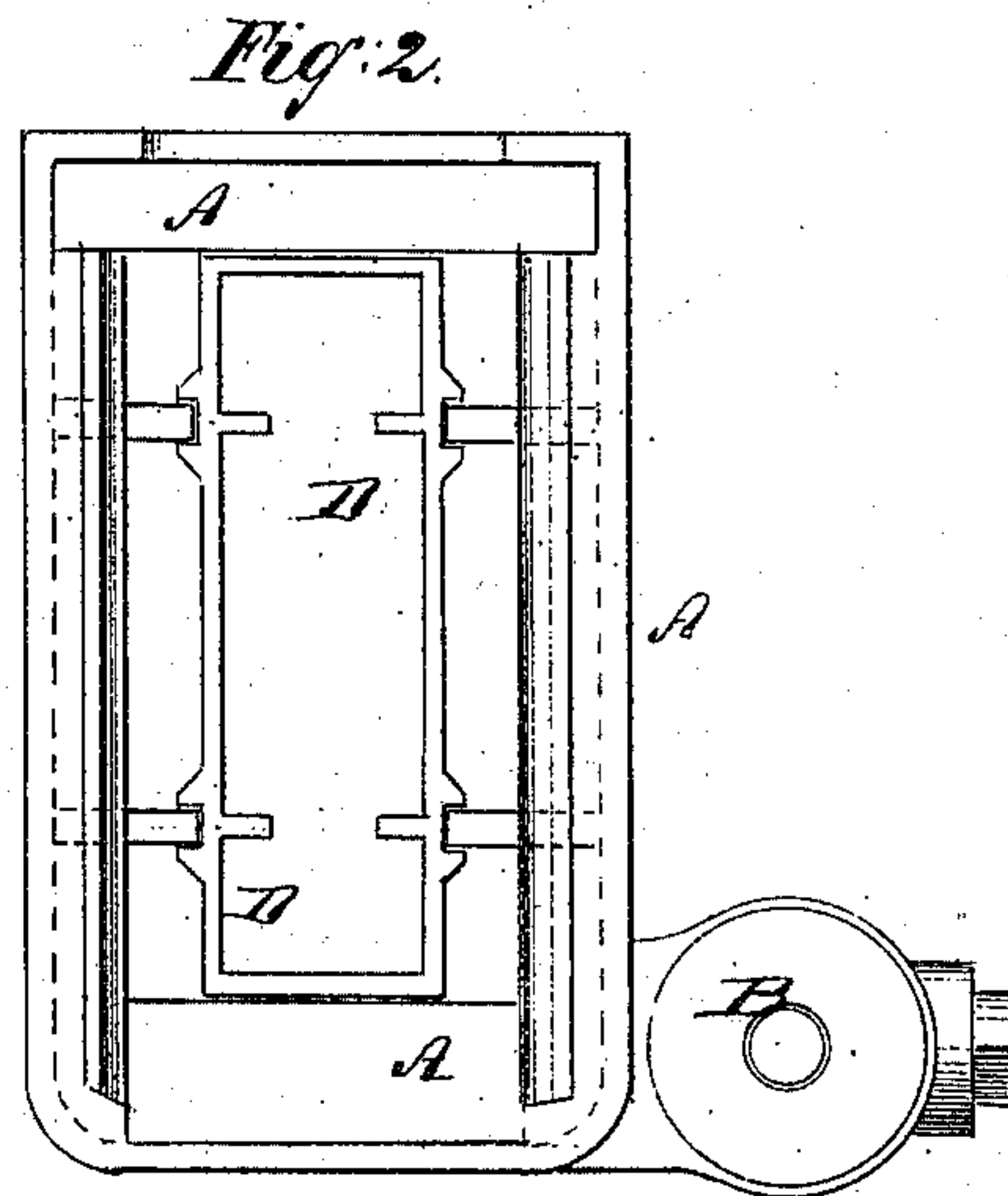
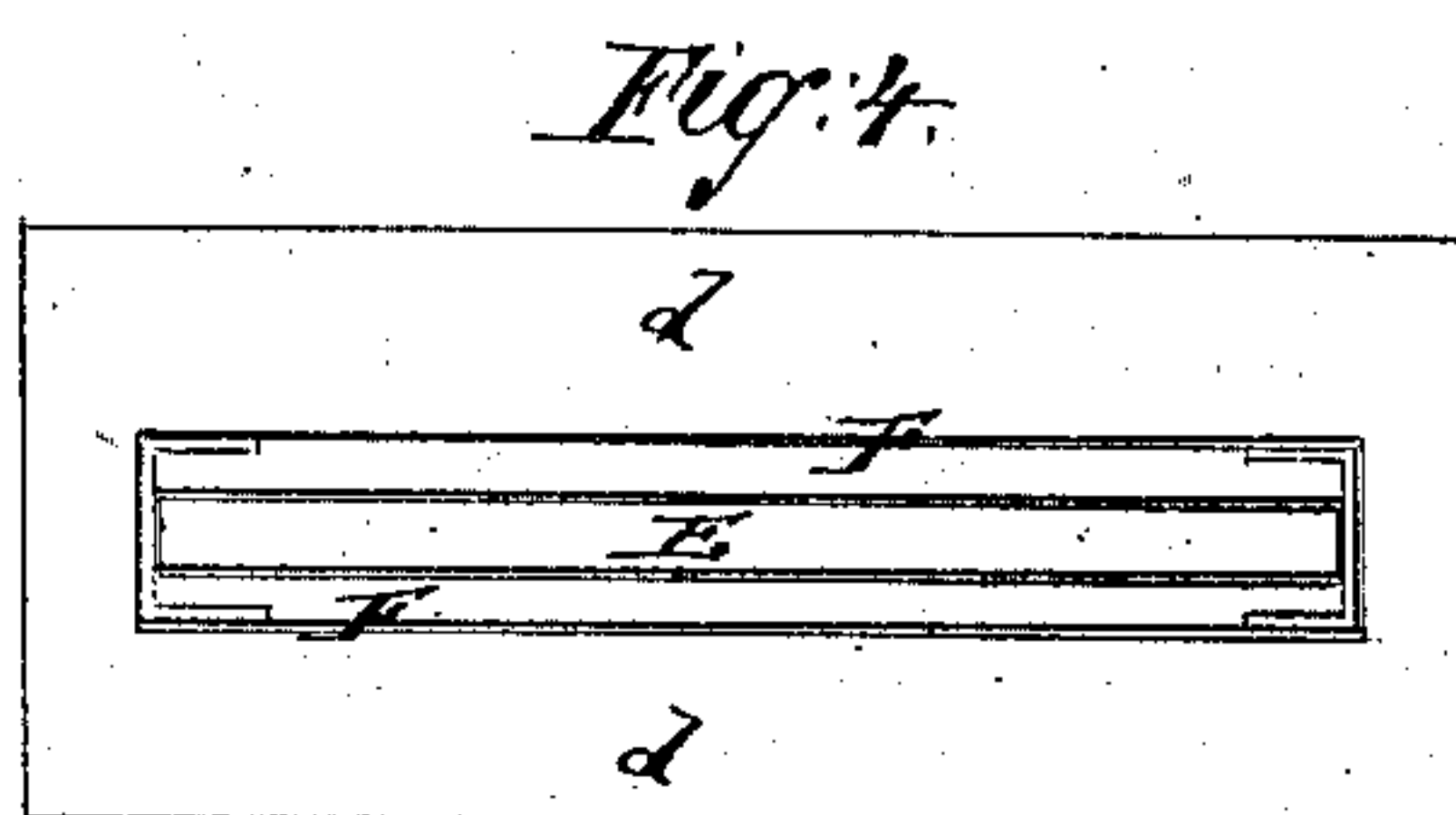
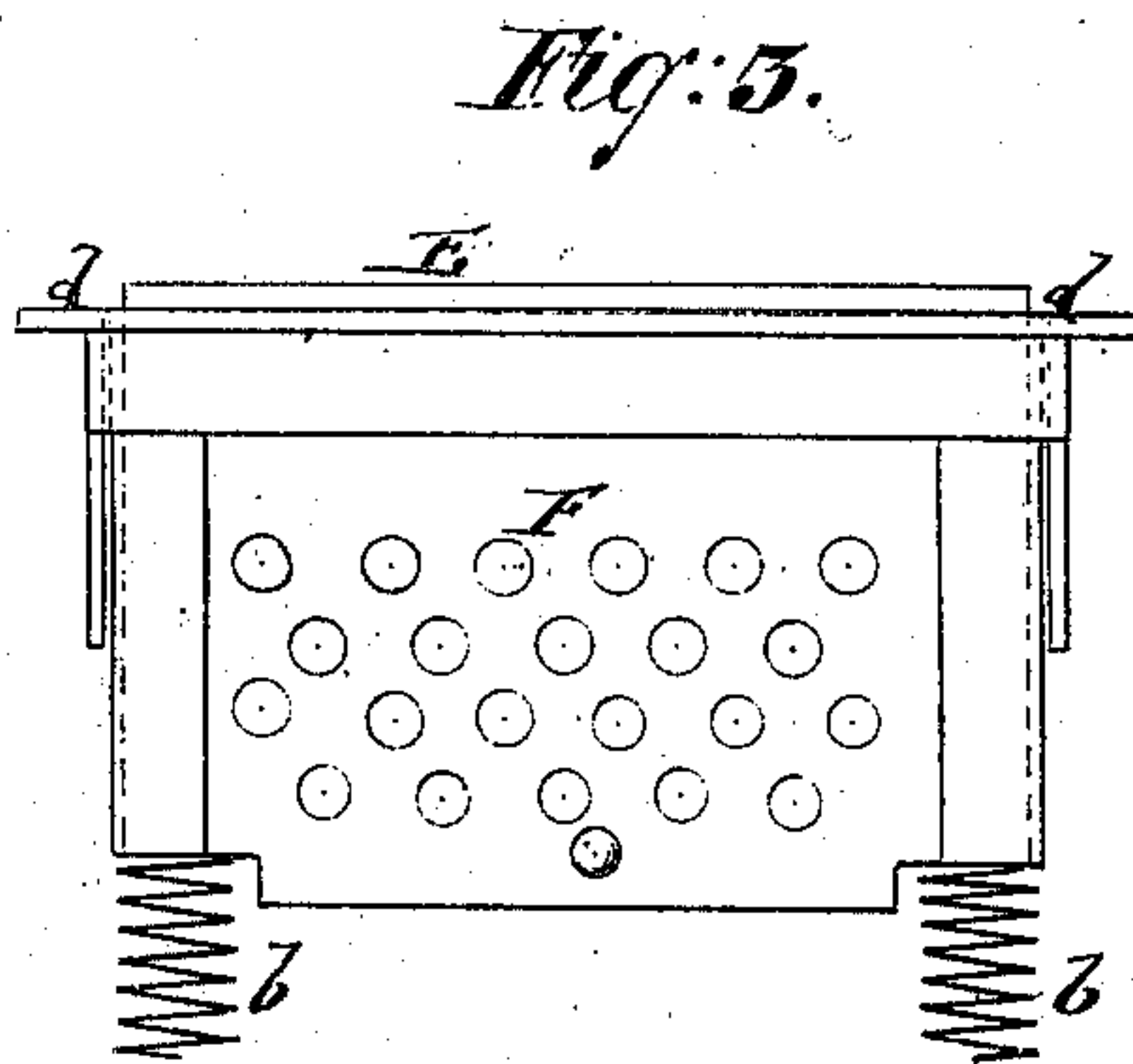
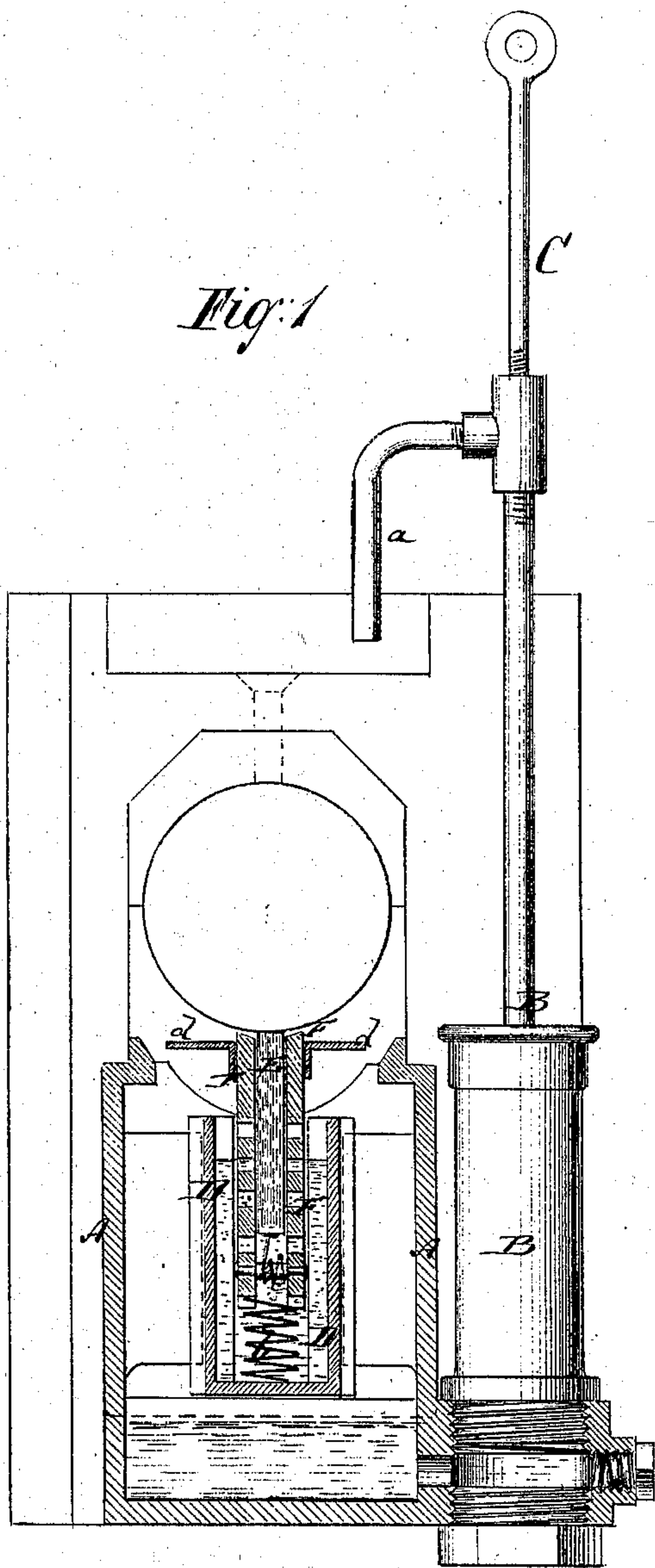


C. Itrig,
Lubricator.

No 105689.

Patented July 26. 1870.



Witnesses:
C. Praetig
Geo. W. Mabee

Inventor:
C. Itrig
PER *Wm. H. Co*
Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES IHRIG, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN RAILROAD-CAR JOURNAL-BOXES.

Specification forming part of Letters Patent No. **105,689**, dated July 26, 1870.

To all whom it may concern:

Be it known that I, CHARLES IHRIG, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Self-Oiler for Railroad-Car Journal-Boxes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical transverse section of my improved self-oiler for journal-boxes. Fig. 2 is a general plan view of the same. Fig. 3 is a side view of the inner wiper. Fig. 4 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention has for its object to construct a self-oiling journal-box for the axle-bearings of railroad-cars; and it consists in the application to the box of a pump for conveying the lubricating material from the lower to the upper part of the journal-box, the said pump being operated by the vertical movement of the car or truck body.

The invention consists also in the combination, with the journal-box, of a spring-wiper, by means of which the coagulated oil is removed from the axle.

A in the drawings represents the lower part of the journal-box. The box is of suitable construction, and has suitable bearings for the axle. In the lower part of the journal-box is contained the oil or lubricating matter.

B is a pump, secured to the journal-box so that its lower end communicates with the lower part of the box, while the discharge-spout *a* of the box reaches into the upper part of the journal-box. The plunger-rod C of the pump is with its upper end secured to the frame of the

truck or car so that during the motion of the car the vertical vibration or movement of the upper frame will work the pump and convey the liquid from the lower to the upper part of the journal-box, discharging it upon the end of the axle. While the car is at rest the lubricating matter will remain undisturbed.

Within the box A, I set up a smaller internal box, D, which is to contain kerosene-oil or some other light flowing substance.

A wick, E, held between two perforated plates, F F, is dipped into the box D.

The plates F are connected at the ends, to form a frame or wick-tube, which rests upon springs *b b*, that press it up toward the car-axle. The frame or wick-tube contains in its lower part another spring, *c*, which presses the wick up against the axle. The wick draws the oil into its upper part and wipes the axle clean of all superfluous or coagulated lubricating matter. A flange, *d*, projects all around the upper part of the wick-tube F, to prevent the lubricating matter from dropping into the box D.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The pump B, having its plunger C secured to and operated by the vertically-moving frame of the car, combined with the journal-box A, as set forth, to form a self-oiling lubricator.

2. The wick E and perforated plates F, resting, respectively, upon the springs *b b* and *c*, combined with the box D, all relatively arranged in a journal-box, as and for the purpose described.

CHARLES IHRIG.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.