

(No Model.)

F. A. GARDNER.
OILER FOR MACHINERY.

No. 280,029.

Patented June 26, 1883.

Fig. 1.

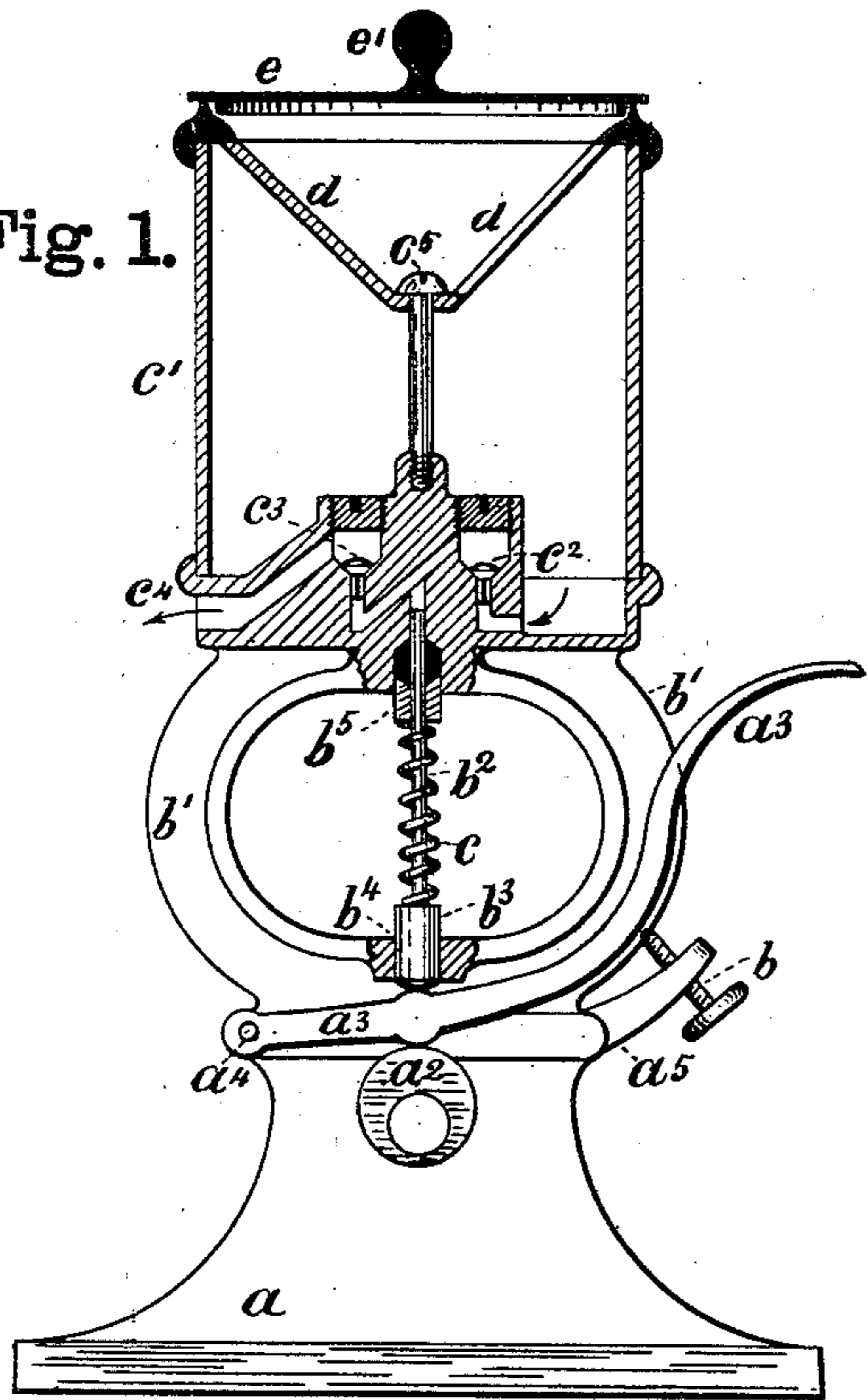


Fig. 2.

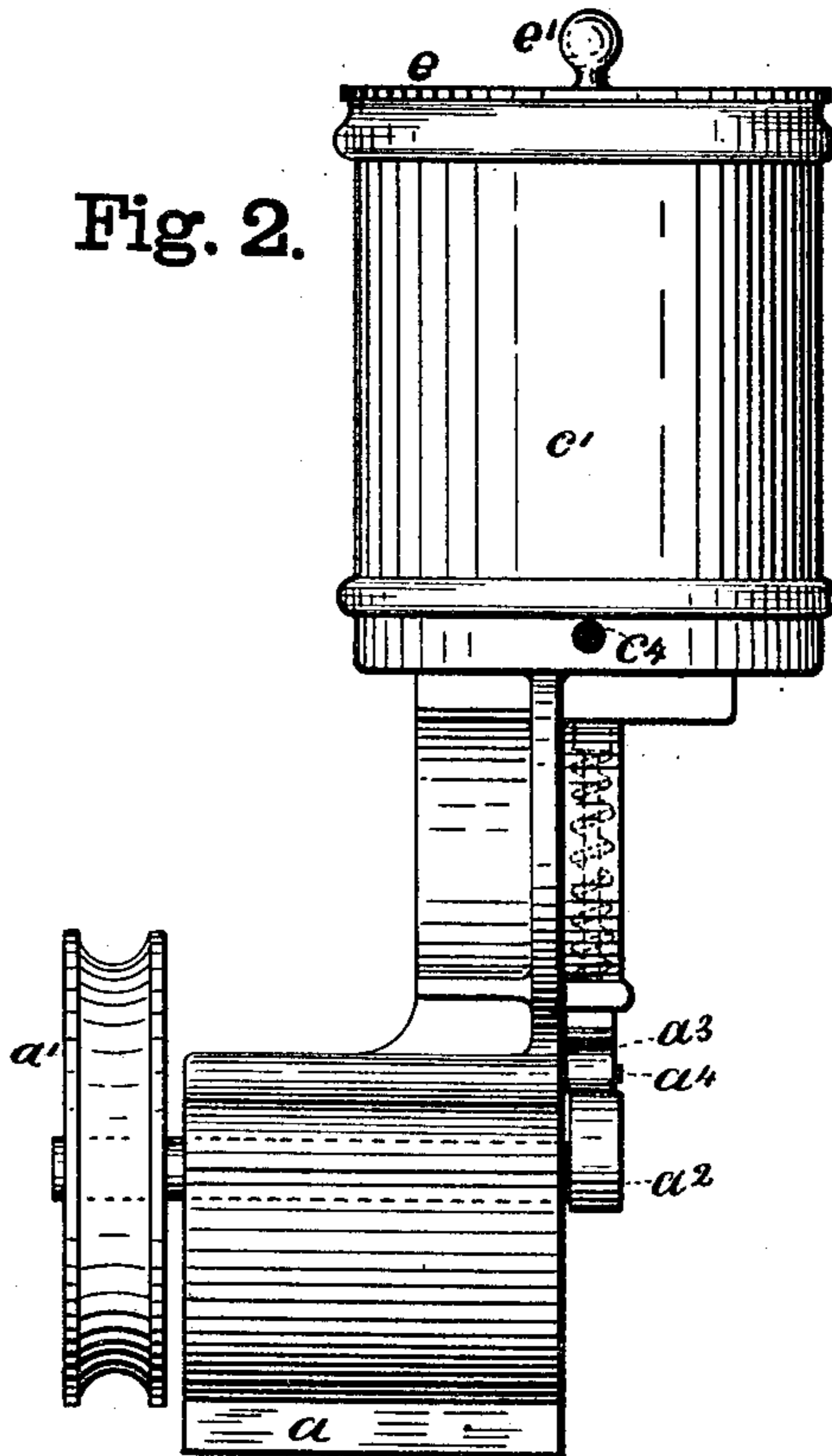
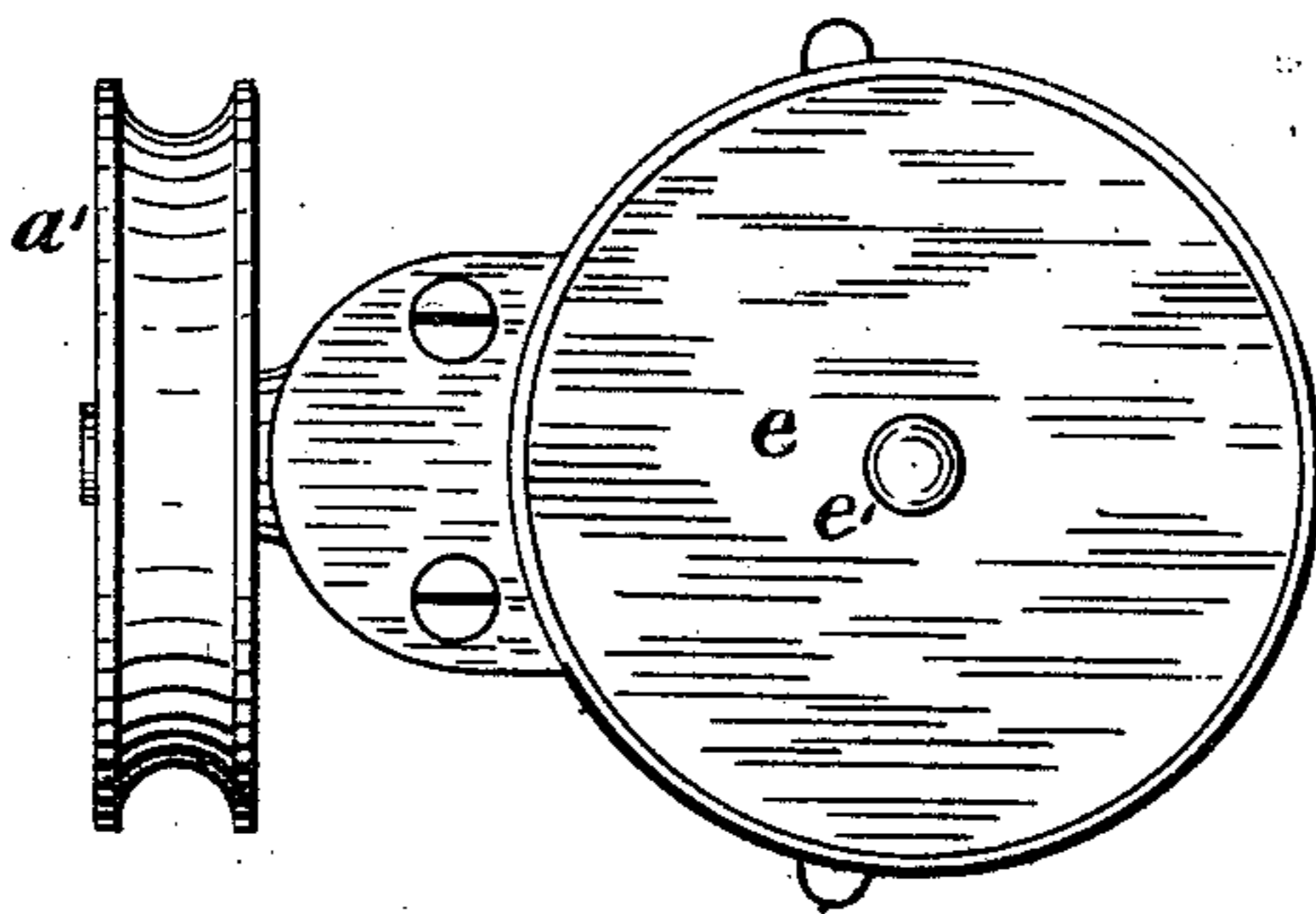


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

FREDERICK A. GARDNER, OF BUFFALO, NEW YORK, ASSIGNOR OF ONE-HALF
TO R. DUNBAR & SON, OF SAME PLACE.

OILER FOR MACHINERY.

SPECIFICATION forming part of Letters Patent No. 280,029, dated June 26, 1883.

Application filed March 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK A. GARDNER, a subject of the Queen of Great Britain, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Oilers for Machinery, of which the following is a specification.

The object of my invention is to produce a convenient and efficient means for oiling machinery either by hand or automatically by the operation of the machine, all of which will be fully and clearly hereinafter described and explained by reference to the accompanying drawings, in which—

Figure 1 is a front elevation, partly in section. Fig. 2 represents a side elevation, and Fig. 3 is a plan or top view.

The frame or base *a* of the oiler is made of cast-iron, brass, or other similar material. A fly-wheel shaft passes through it. On the outside is a driving-wheel, *a'*, and on the front end is an eccentric, *a''*. It is also provided with a handle, *a'''*, jointed to the device by a pin, *a''''*, and below the handle is a projection, *a'''''*, through which passes a screw, *b*, for regulating the amount of movement of the handle. Above this are two bent arms, *b'*, connecting with the upper part. The piston *b''*, which has an enlarged head, *b'''*, passes through the hole *b''''* and rests on top of the handle *a'''*, the lower part of the handle resting upon the eccentric. The piston *b''* passes up through the stuffing-box *b''''*. It is kept downward by a spiral spring, *c*, which presses down upon the head *b'''* at the lower portion of the piston and up against the stuffing-box at the top. The piston passes through the stuffing-box into the piston-chamber and acts as a pump to force the oil from the oil-cup to the machinery. The usual glass cup, *c'*, is provided with the ordinary valves.

The operation of my invention is as follows:

When it is to be operated automatically, a belt is put onto the driving-wheel *a'*, by which motion is communicated to the pump *b''* through the eccentric, which acts upon the handle, as shown. A downward movement of the pump draws a quantity of oil from the cup through the space around the valve *c''* when open, and an upward stroke of the pump causes this valve to close and lifts the opposite valve, *c'''*, by forcing the oil up around it and through the passage *c''''* and into the machinery to be oiled by a pipe connected therewith. The quantity of oil forced into the machinery is regulated by the screw *b*, which, as will be seen, lifts the handle up from the eccentric in proportion as it is moved forward, or vice versa, so that it regulates the stroke of the piston or pump *b''*, and in this way regulates the amount of oil. If it is necessary to force oil into the machinery when it is not in motion, all that is necessary to do is to operate the lever of the handle *a'''*.

I claim as my invention—

1. The combination, in an oil-cup, of a piston or pump arranged below the valves outside of the oil-cup and provided with a spring for keeping it downward, a lever, *a'''*, secured to the frame by a pin, *a''''*, an eccentric for operating it, and a thumb-screw, the lever or handle *a'''* being arranged between the pump and eccentric and resting against the thumb-screw, substantially as and for the purposes described.

2. In an oil-cup, a pivoted lever or handle arranged between the bottom of the pump and the eccentric *a''*, and its free end resting against an adjusting-screw, thereby adapting it to be operated automatically or by hand, substantially as specified.

FREDERICK A. GARDNER.

Witnesses:

J. M. CALDWELL,
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