

J. T. Foster,

Rotary Pump.

No. 98482.

Patented Jan. 4, 1870.

FIG. 2.

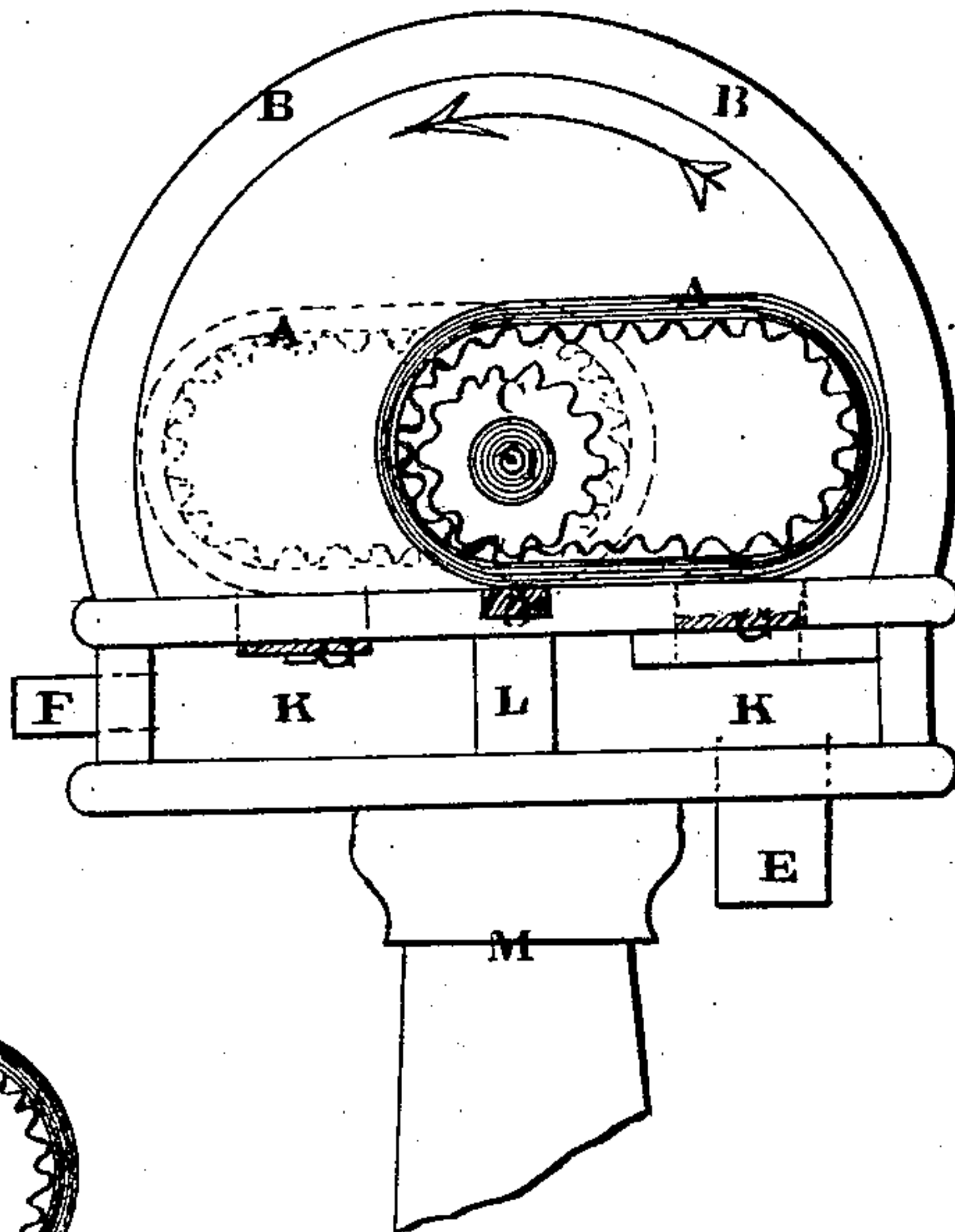


FIG. 3.

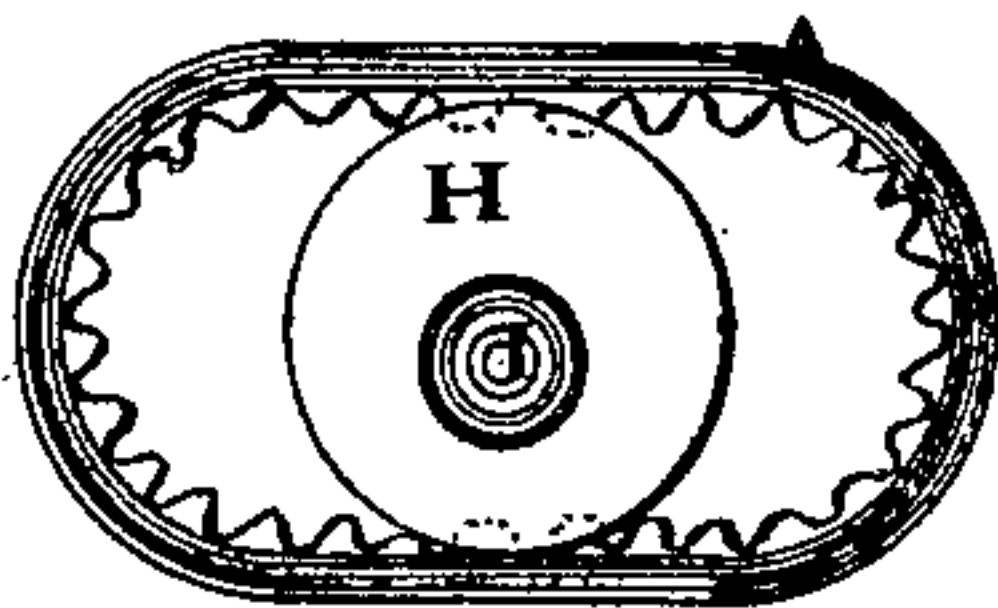
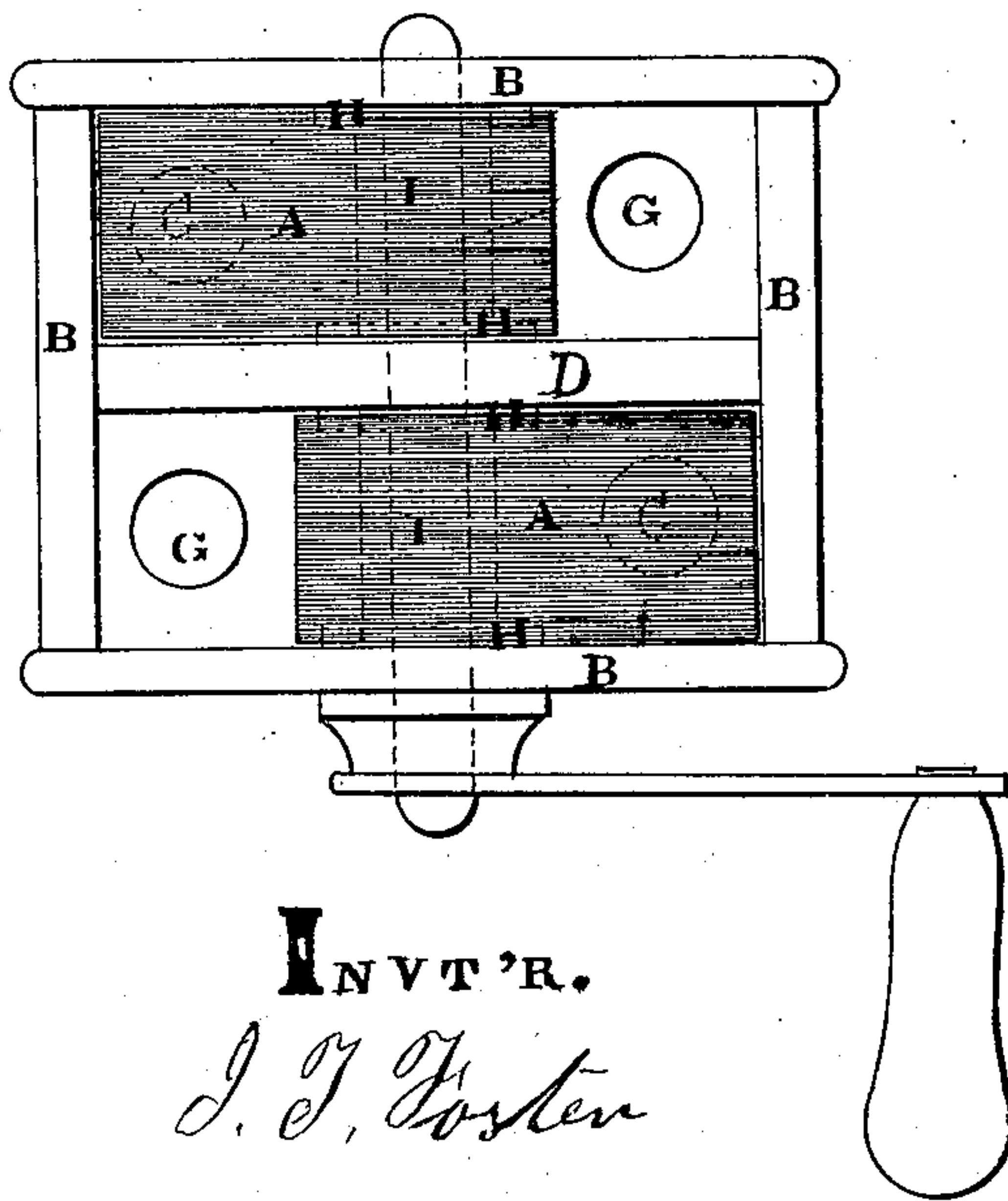


FIG. 1.



INVT'R.

J. T. Foster

WITNESSES.

Geo. W. Ramsey
Lezardson

United States Patent Office.

JOHN T. FOSTER, OF NEW YORK, N. Y.

Letters Patent No. 98,482, dated January 4, 1870.

IMPROVEMENT IN ROTARY PUMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JOHN T. FOSTER, of the city, county, and State of New York, have invented a new and improved Pump, which is clearly and fully set forth in the following specification, including the accompanying drawings, and letters of reference marked thereon.

Like letters refer to like parts in each drawing.

Figure 1 is a plan view with the top casing removed.

Figure 2 is an end view with the end casing removed.

A is a link-piston, with cog-gearing in the interior, and is made to revolve within the semi-cylindrical chamber B, by the pinion-wheel C, whereby A is made to accomplish half its revolution by moving in a right line. A is duplicated, and is arranged in opposition, on the same journal.

D is a partition, by which the duplicates A are separated, thus making one complete and separate water-chamber for each link-piston, with independent valves for each chamber.

E is the supply-pipe.

F is the discharge-pipe.

G are the valves and valve-openings.

H, figs. 1 and 3, are eccentric guides, by which pis-

tons A are held in proper gear, and are affixed to the inner side of the end casings, also to each side of the partition D, and through which the journal I, of pinions C, revolves.

These eccentric guides H fit within the rim of link-pistons A, and allow the piston to glide around their circumference when in motion.

J is an elastic packing, encased within a strip of sheet-metal.

K are the two valve-boxes, separated by partition L.

M is the pedestal.

The pump is effective without the duplicate link-piston A.

The capacity of the pump may be increased to any reasonable extent by the addition of a series of sections, fastened together, inclosing link-pistons, all operating by the same journal.

What I claim, is—

The link-piston A, when constructed and arranged to move and operate within the semi-cylindrical chamber B, as set forth.

J. T. FOSTER.

Witnesses:

GEO. M. RAMSAY,

LO. WATSON.