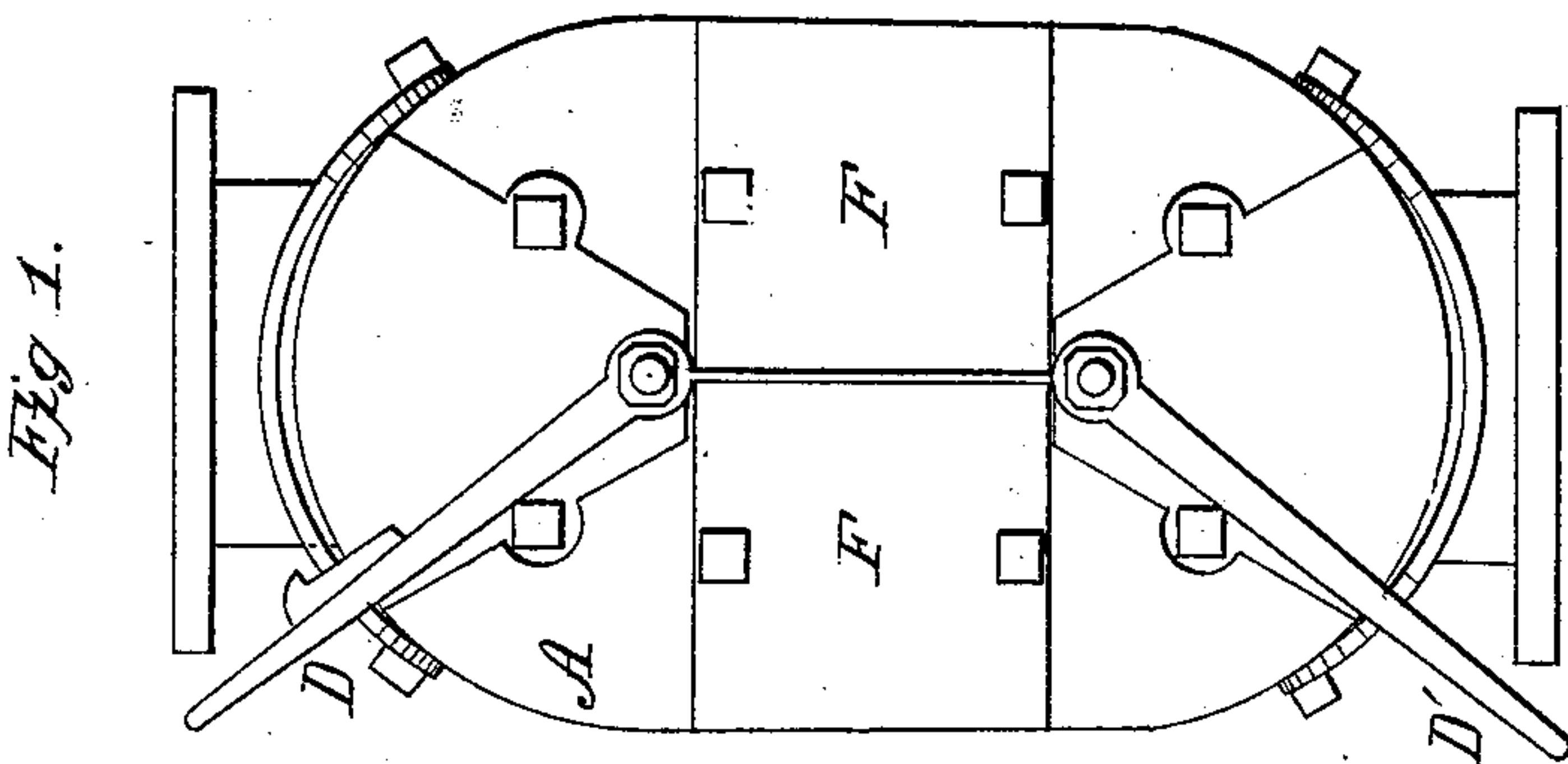
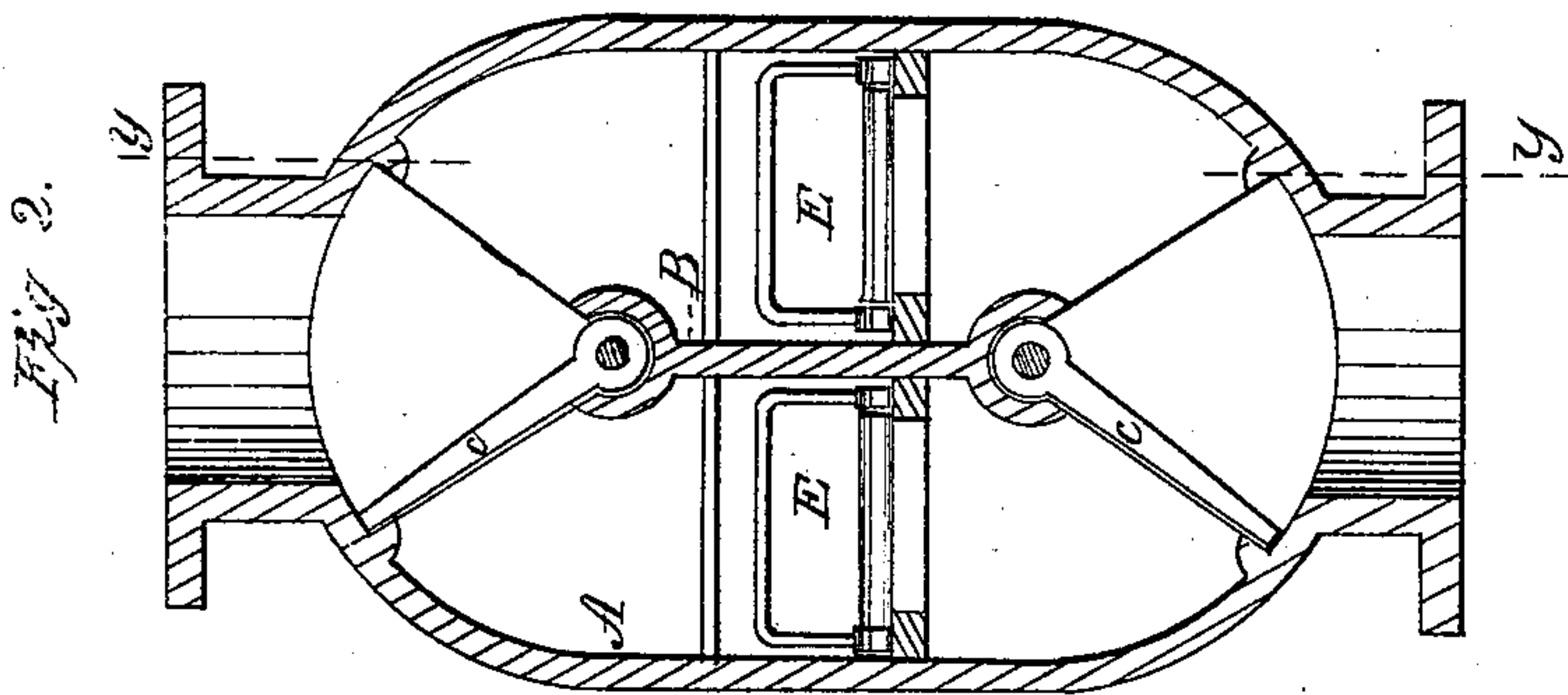
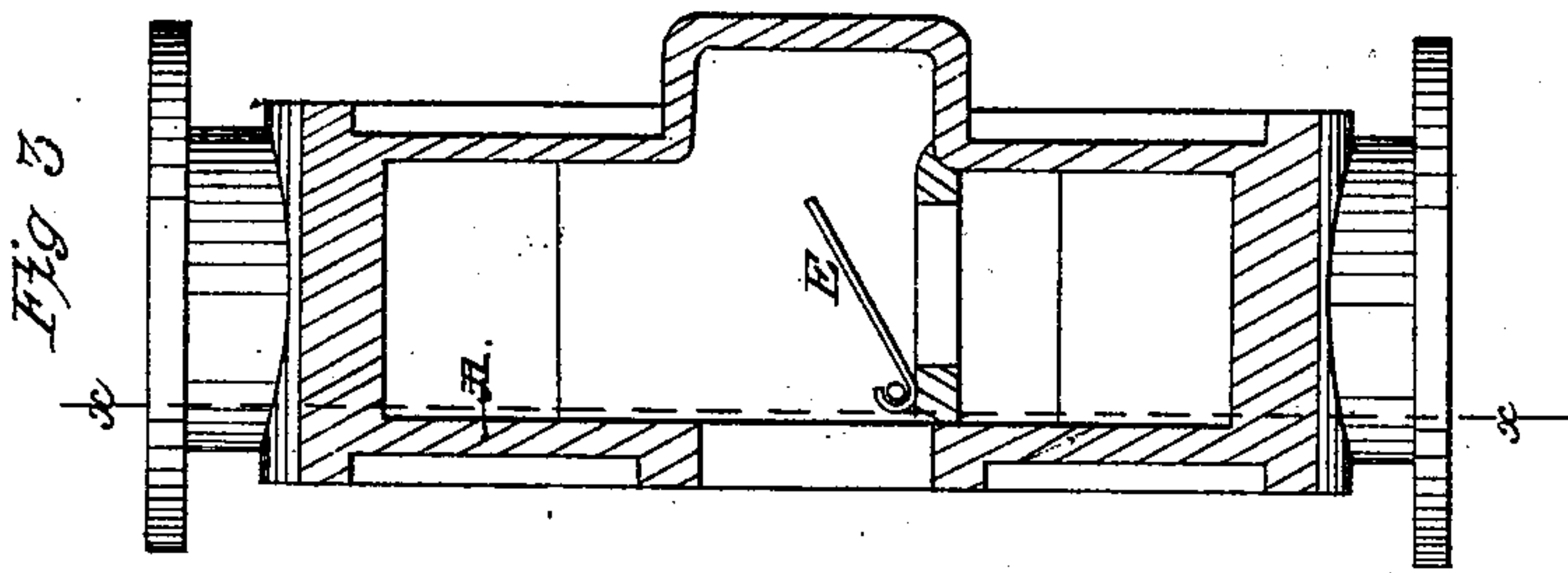


*M. C. Taylor,*  
*Steam-Pump Valve-Chamber.*  
*N<sup>o</sup> 84,516.                      Patented Dec. 1, 1868.*



*Witnesses.*

*J. L. Boone*  
*Geo. A. Strong*

*Inventor.*

*M. C. Taylor*  
*By his Attys Dewey*  
*& Co*



MICHAEL C. TAYLOR, OF GRASS VALLEY, CALIFORNIA.

Letters Patent No. 84,516, dated December 1, 1868.

IMPROVEMENT IN PUMP-VALVE CHAMBERS.

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, MICHAEL C. TAYLOR, of Grass Valley, county of Nevada, State of California, have invented an Improvement in Valve-Chambers for Pumps; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use my said invention or improvements without further invention or experiment.

The object of my invention is to provide an improvement in valve-chambers for pumps, so that a continuous stream of water may be thrown from the pump; and, in case one valve should be broken or get out of order, so that its efficiency should be impaired, by simply turning a lever, the stream of water may be shut off, and turned through another valve, when the injured valve may be repaired without the necessity of stopping the pump.

My invention consists of a valve-chamber, having a partition or diaphragm dividing it in its centre. On either side of this partition I place a valve. Each end of the partition is a movable valve, which entirely closes the connection between the pipe and one of the valve-chambers, both at the top and bottom. These valves are operated by a lever on the outside of the pump, held in place by slots in a curved rack, attached to each end of the pump. Either of the valves is of sufficient capacity to carry a full stream of water, so that when, by reason of any accident, the valve carrying the water becomes disarranged, the levers can be thrown to that side, thus effectually cutting off the water from that direction, and forcing it through the valve on the other side.

To more fully illustrate and explain my invention, reference is had to the accompanying drawings, and letters marked thereon, of which—

Figure 1 is a front view, showing the operating-levers.

Figure 2 is a sectional elevation, taken through  $x x$ , fig. 3.

Figure 3 is a sectional elevation, taken through  $y y$ , fig. 2.

A is the valve-chamber, having a partition or diaphragm, B, dividing it in its centre, each end of which

is a movable valve, C C', operated by the two levers, D D'.

On each side of this partition B, I place two valves, E E, of any suitable construction, and of sufficient capacity to carry a full stream of water.

Caps or plates, F F, are placed over an opening in front of the valves, and secured by screws, which may be removed in order to repair or replace the valve when out of order.

The operation of my pump is as follows :

The two levers are thrown to the same side of the pump, and secured in the slots in the rack, which causes the valves which they control to close the connection between the pipe and the valve on that side, allowing the water to pass up through the valve on the opposite side.

When the valve through which the water passes needs repairing or replacing, the levers are thrown over, and close the connection to the damaged valve, causing the water to pass up through the valve on the opposite side, when the cap or plate may be removed, and the valve repaired, without stopping the flow of water from the pump.

By this device, I have a pump that will throw a continuous stream of water, thus making it invaluable for pumping out shafts and other places where it is necessary to avoid stoppages, in order that the water may not accumulate, and require much time and labor to reduce it.

Having thus described my invention,

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

1. The diaphragm B, in a valve-chamber, and the valves C C', operated by the levers D D', substantially as and for the purposes described.

2. A double valve-chamber, having one ingress and egress-pipe, constructed substantially as and for the purposes herein described.

In witness whereof, I have hereunto set my hand and seal.

MICHAEL C. TAYLOR. [L. s.]

Witnesses:

JOHN C. DEUEL,  
J. H. McCORRY.