

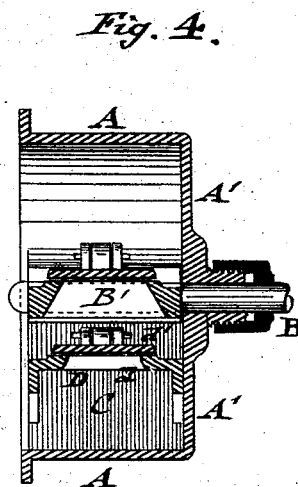
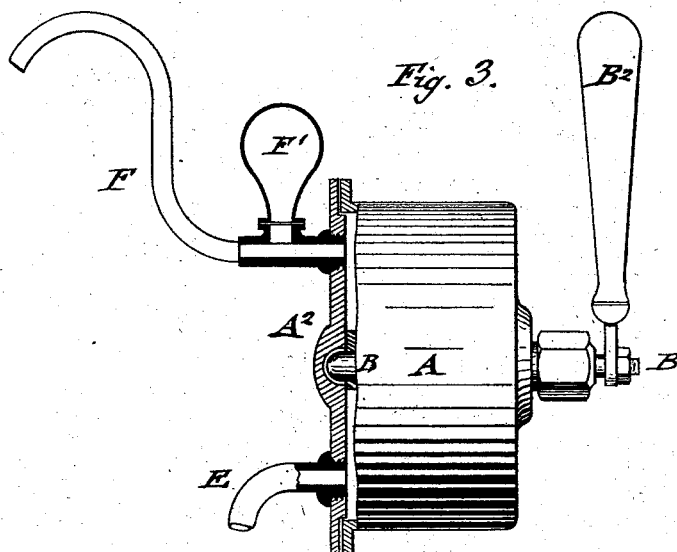
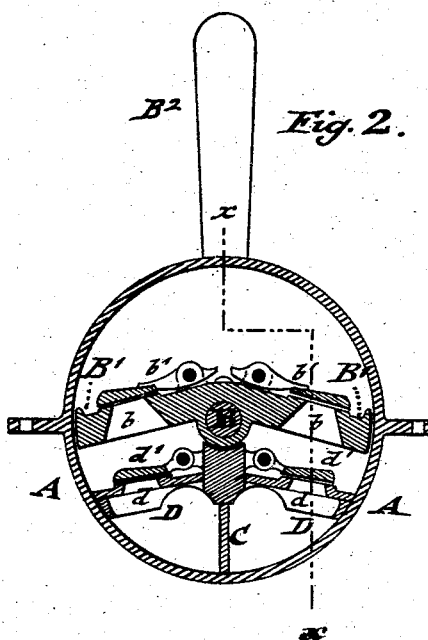
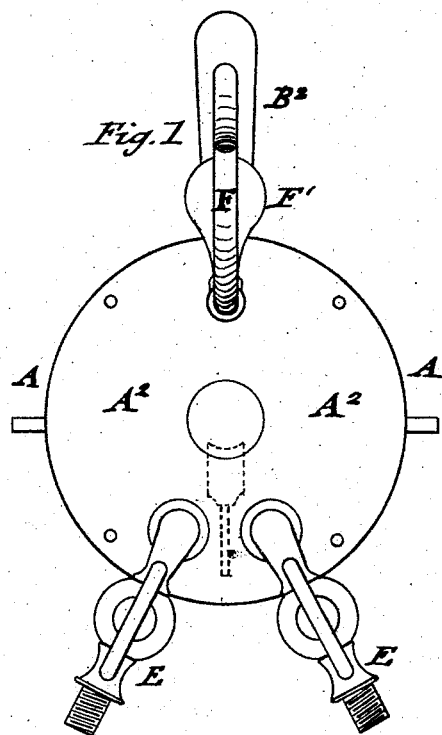
(No Model.)

C. SCHLUND & P. PETRY.

OSCILLATING PUMP.

No. 264,571.

Patented Sept. 19, 1882.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CARL SOHLUND AND PETER PETRY, OF NEWARK, NEW JERSEY.

## OSCILLATING PUMP.

SPECIFICATION forming part of Letters Patent No. 264,571, dated September 19, 1882.

Application filed July 11, 1882. (No model.)

### *To all whom it may concern:*

Be it known that we, CARL SOHLUND and PETER PETRY, both of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Oscillating Pumps, of which the following is a specification.

This invention has reference to an improved oscillating pump, which has the advantage that it may be connected with two different sources of supply—such as, for instance, a cistern and well or with a hot and cold water reservoir—so as to pump water from either one or from both at the same time, as required; and the invention consists of a pump-cylinder with a detachable head, of an interior oscillating piston having a hinged valve at each side of the center shaft, of a fixed diaphragm or partition below the journal-bearing of the piston-shaft, and of auxiliary valves and valve-seats below the oscillating piston, said parts working in combination with two suction-pipes of the detachable head, one at each side of the partition, and with a discharge-pipe at the upper part of the cylinder.

In the accompanying drawings, Figure 1 represents a front elevation of our improved oscillating pump. Fig. 2 is a vertical section on a plane at right angles to the axis of the pump. Fig. 3 is a side elevation, partly in section, through the detachable head; and Fig. 4 is a vertical transverse section of the same, shown with the head removed.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the exterior pump-cylinder of our improved oscillating pump, which cylinder is supported on a frame of any suitable construction, according to the use of the pump. The cylinder A is preferably cast in one piece with the rear head, A', while the front head, A<sup>2</sup>, is tightly screwed to a circumferential flange of the cylinder A.

To the center shaft or spindle, B, of the pump is applied an oscillating piston, B', that is ground off at the ends, so as to fit tightly the interior surface of the cylinder A without any packing. The piston B' is oscillated by a handle, B<sup>2</sup>, which is attached to the outer end of the spindle B, the inner tapering or rounded-

off end of which is supported on an indentation or seat of the front head, A<sup>2</sup>. The shaft B turns in a bearing of the rear wall of the cylinder A, which bearing is arranged with a suitable stuffing-box to prevent the escape of water. The oscillating piston B' is provided at each side of the shaft with an opening, b, and pivoted valves b'.

Below the bearing of the piston-shaft is arranged a fixed vertical partition, C, from which extend at each side thereof inclined auxiliary valve-seats D, the openings d of which are closed by pivoted metallic valves d'.

The front head, A<sup>2</sup>, is provided with two suction-pipes, E, which are connected thereto in such a manner as to communicate with the spaces below the valve-seats D at each side of the partition C. The suction-pipes E are arranged with suitable stop-cocks, so that on opening either one or both stop-cocks the pump may be worked so as to draw water through either one or both pipes at the same time.

A discharge-pipe, F, is applied to the upper part of the front head, A<sup>2</sup>, and communicates with the interior space at the upper part of the cylinder, it being preferably provided with a small vacuum-chamber, F', so as to keep up a regular discharge of water. As both the suction-pipes E and the discharge-pipe F are applied to the detachable head A<sup>2</sup> of the pump, the interior parts of the pump can be readily reached for cleaning or repairing.

Our improved pump is specially adapted for domestic purposes, as thereby water may be supplied from two different sources, whatever their distance from each other, either from each source separately or from both sources together, so that, for instance, water may be pumped from a well and cistern by the same pump, or it may be used for pumping hot or cold water, or for similar purposes. The pump is small and compact in shape, durable in use, and easily worked.

We are aware that oscillating pumps having a pump-cylinder, a valved oscillating piston, and auxiliary valves are well known, also oscillating pumps with a fixed transverse partition, to which features we therefore lay no claim.

Having thus described our invention, we

claim as new and desire to secure by Letters Patent—

The combination of a pump-cylinder, A, having an interior valved oscillating piston, 5 B', auxiliary inclined valve-seats D, and valves d', a fixed transverse partition, C, vertically below the journal-bearing of the piston-shaft, and a removable front head, A<sup>2</sup>, having suction-pipes E E, one at each side of the fixed 10 partition, and a discharge-pipe, F, communi-

cating with the space above the piston, all substantially as set forth.

In testimony that we claim the foregoing as our invention we have signed our names in presence of two subscribing witnesses.

CARL SCHLUND.

PETER PETRY.

Witnesses:

CARL KÜHNE,

DANIEL LAUCK.