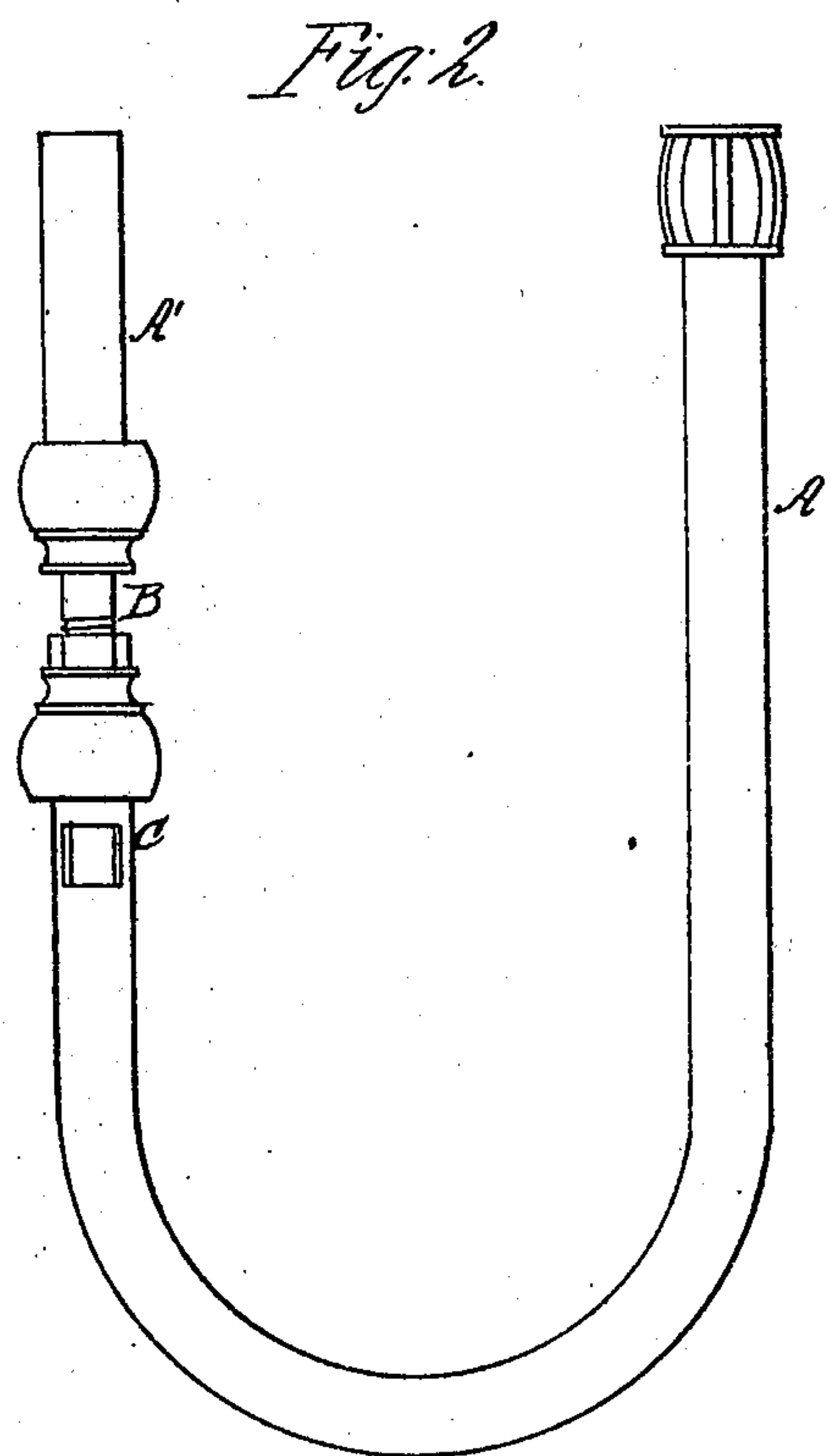
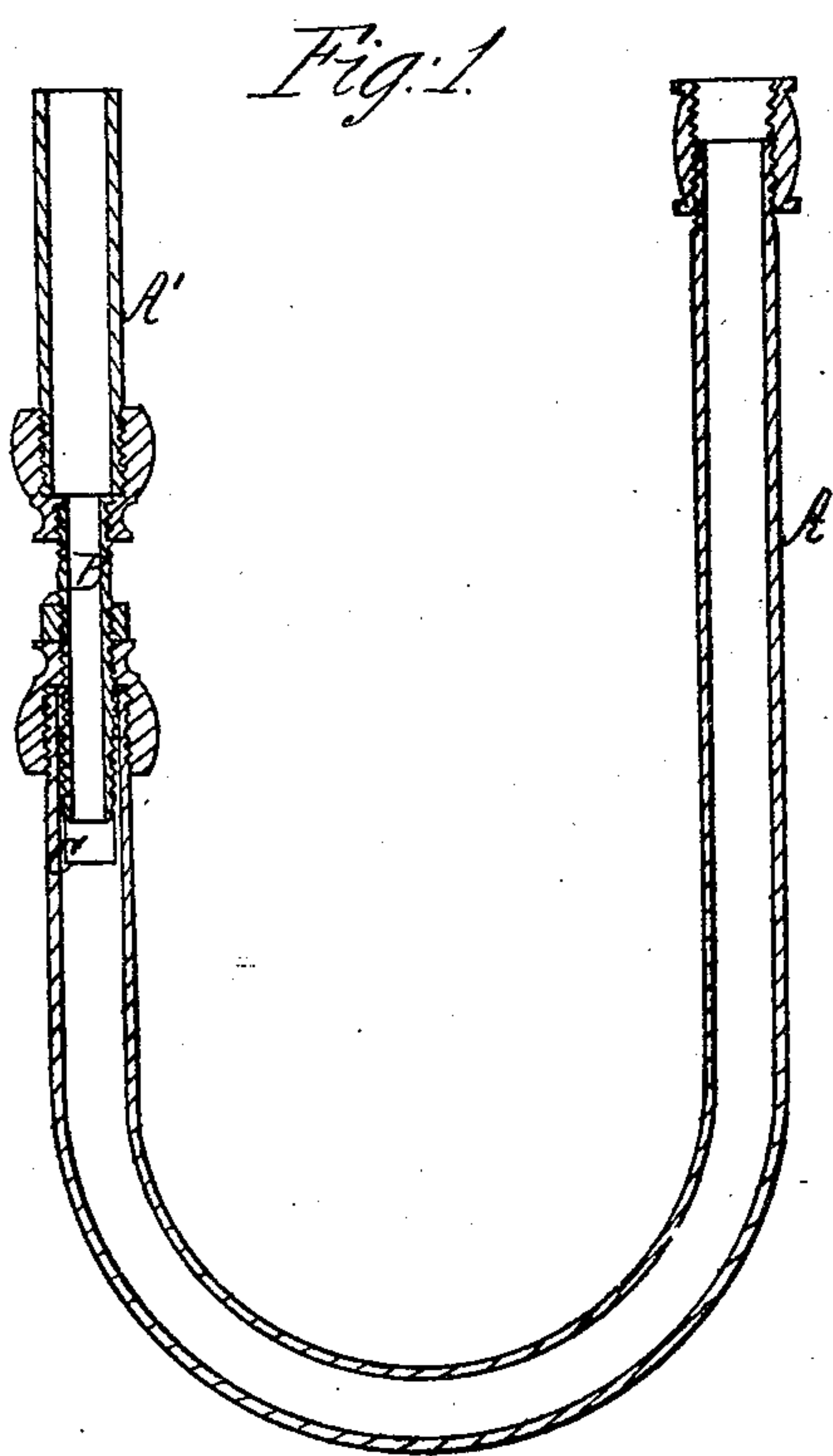


J. WOOD.
FLUID EJECTOR.

No. 48,861.

Patented July 18, 1865.



Witnesses:

J. E. Shaw
Geo. C. Buckley

Inventor:

Joseph Wood

UNITED STATES PATENT OFFICE.

JOSEPH WOOD, OF RED BANK, NEW JERSEY.

IMPROVEMENT IN FLUID-EJECTORS.

Specification forming part of Letters Patent No. 48,861, dated July 18, 1865.

To all whom it may concern:

Be it known that I, JOSEPH WOOD, of Red Bank, in Monmouth county, New Jersey, have invented a new and useful Improvement in Devices for Elevating Fluids and Grain; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part hereof, in which—

Figure 1 is a longitudinal section of my improved device; Fig. 2, a side view.

In the drawings, A A' is a curved pipe, each leg thereof being composed, if necessary, of any number of sections screwed together or joined in any substantial manner, the section A' being connected with the section A by means of the smaller pipe B.

C is an aperture in the pipe. There may be any desired number of similar apertures.

The pipe A A' may have either or both of its legs extended to any desired length. The aperture C is placed at a point below the surface of the fluid to be elevated and ahead of the point in the pipe A' where the steam or air jet, which is the propelling power, is admitted. Steam directly from a boiler or air from a blower is admitted into the top of the

pipe A', and passing down comes in contact with the fluid or grain to be elevated, which fluid or grain finds its way into the pipe through the aperture or apertures C, and is forced up the pipe A.

This device can be used for raising water or oil from wells, no matter of what depth. In applying it to oil-wells it is placed inside of the ordinary tubing.

I disclaim the controlling use of steam and air as motive powers for ejecting fluids from wells; but

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

The employment of a curved pipe provided with an aperture, C, or several similar apertures, placed at a point in the pipe where it or they shall be below the surface of the fluid to be elevated and in advance of the point in the pipe where the steam or air, which is the propelling power, is admitted, in the manner and for the purpose substantially as described.

JOSEPH WOOD.

Witnesses:

J. E. SHAW,

GEO. E. BUCKLEY.