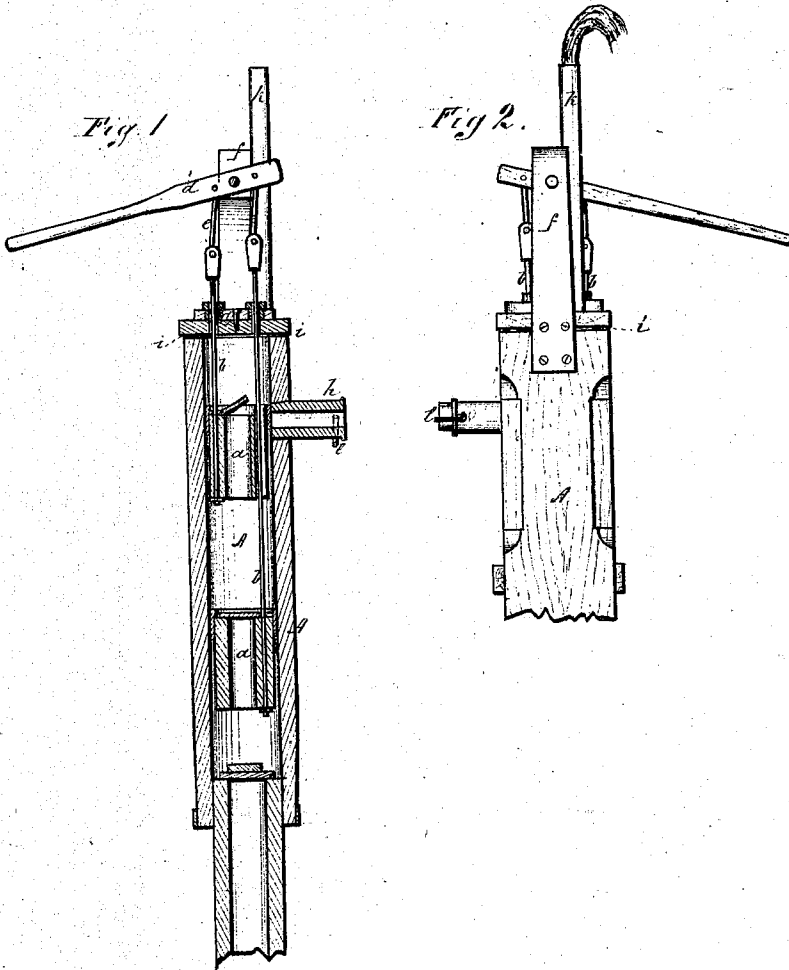


H. M. Wyeth,

Pump.

No. 105401.

Patented July 12, 1870.



H. M. Wyeth, Inventor.

Witnesses:
C. A. Pettit
D. Curran

by

Wm. H. C.

His Attorneys.

United States Patent Office.

HENRY M. WYETH, OF NEWARK, OHIO.

Letters Patent No. 105,401, dated July 12, 1870.

IMPROVEMENT IN 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, HENRY M. WYETH, of Newark, in the county of Licking and State of Ohio, have invented a new and useful Improvement in Pumps; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a sectional, and

Figure 2, a side elevation.

This invention consists in the combination, with an ordinary double-acting atmospheric pump, provided with a cap tightly packed, through which the pump-rods work in stuffing-boxes, of a pipe passing vertically through the cap, and thus communicating with the interior of the pump, by which arrangement, when the spout through which the water raised by the atmospheric pump flows is closed, the apparatus is converted into a force-pump, so that I have a double-acting atmospheric pump and a double-acting force-pump combined in a single cylinder and working with a single lever.

In the drawing—

A is the pump-cylinder;

a a, upper and lower boxes;

b b, rods connected at the lower ends with the boxes a, and passing upward through stuffing-boxes in the cap c;

d, the lever by which the boxes are worked;

e e, rods connecting the lever d with the rods b, the object of this arrangement being to permit the main rods to work vertically in their stuffing-boxes without lateral pressure;

f f, the standards springing from the top of the pump and supporting the pivot of the lever d.

i, the packing between the top of the pump and the cap c;

h, the spout through which flows the water raised by the atmospheric pump, and

k, the pipe which passes through the cap c, and conveys away the water discharged by the force-pump.

As long as the spout h remains open, the apparatus works simply as an atmospheric pump. To convert it into a force-pump, the spout h is closed by the insertion of a plug, l, when water brought up by the boxes, finding no other outlet, rushes through the pipe k, and may be used for putting out fires, watering gardens, or for any other purpose to which it is adapted.

Having thus described my invention,

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

The cylinder A, boxes a, rods b e, lever d, cap c, packing i, spout h, pipe k, and plug l, all combined and arranged to operate substantially as described.

HENRY M. WYETH.

Witnesses:

WALDO TAYLOR,
A. J. HOPKINS.