

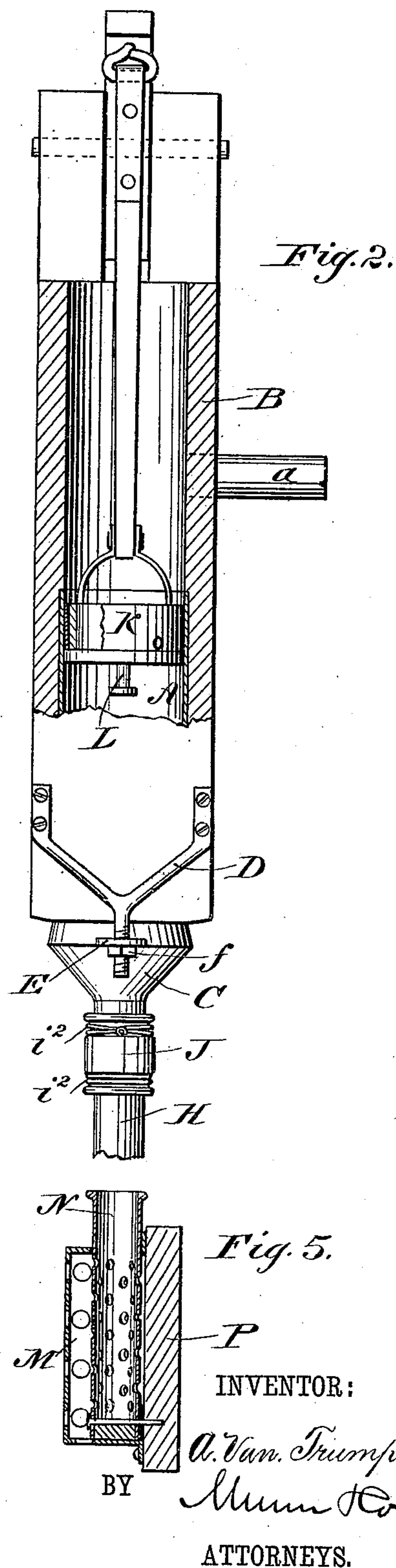
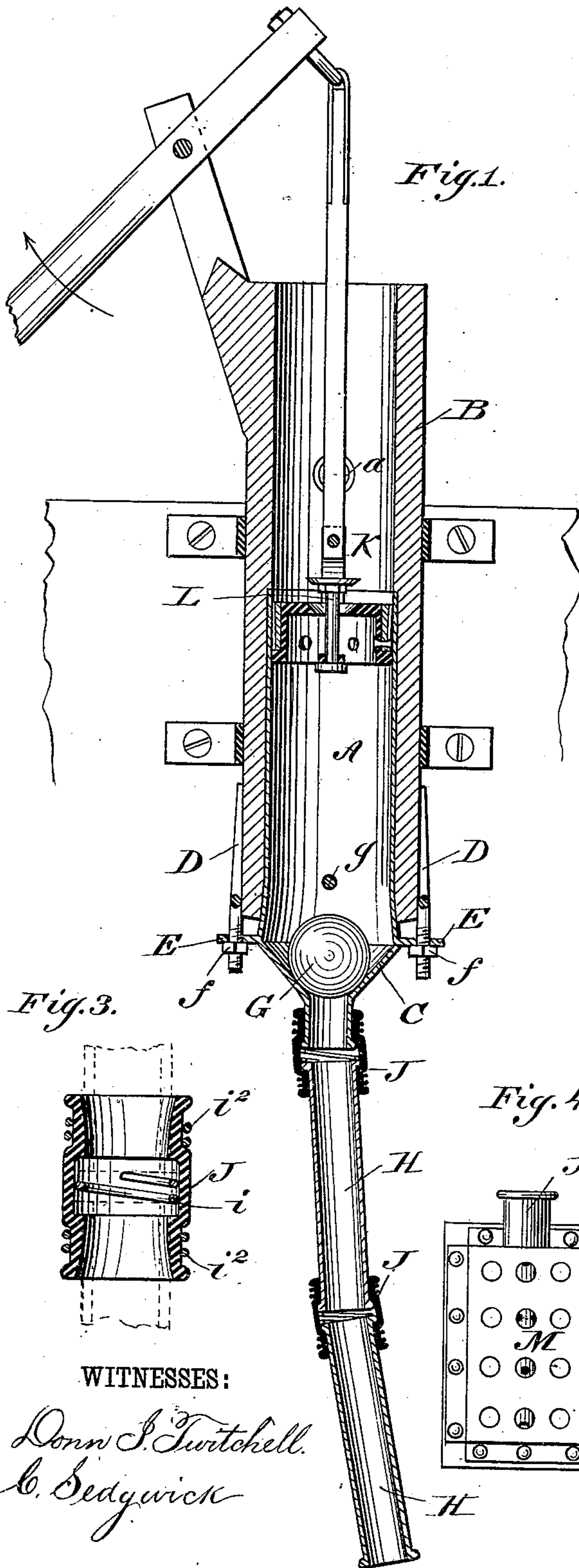
(Model.)

A. VAN TRUMP.

PUMP.

No. 251,004.

Patented Dec. 13, 1881.



WITNESSES:

Donn P. Twitchell.
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UNITED STATES PATENT OFFICE.

ABRAHAM VAN TRUMP, OF WEST ELKTON, OHIO.

PUMP.

SPECIFICATION forming part of Letters Patent No. 251,004, dated December 13, 1881.

Application filed March 31, 1881. (Model.)

To all whom it may concern:

Be it known that I, ABRAHAM VAN TRUMP, of West Elkton, in the county of Preble and State of Ohio, have invented a new and useful
5 Improvement in Pumps, of which the following is a full, clear, and exact description.

This invention relates to a pump which is more particularly intended to be attached to a water tank or box mounted on wheels, so as
10 to be carried from place to place to obtain its supply of water.

The invention consists in a novel construction, arrangement, and combination of the cylinder, piston, valves, a hose, and a double
15 screen, as hereinafter described.

In the accompanying drawings, Figure 1 is a central vertical sectional view of a pump embodying my improvements. Fig. 2 is a view, partly in section, at right angles to Fig. 1.
20 Fig. 3 is a sectional view of a hose-coupling. Fig. 4 is a side view, and Fig. 5 a sectional view, of my improved double screen.

Similar letters of reference indicate corresponding parts.

25 A represents the pump-cylinder, which is made of sheet metal and covered with a wooden casing, B. The lower end of the cylinder A is slightly flaring, and is attached to the top of a funnel-shaped neck, C, by means of two
30 forked bars, D, having their branches screwed to the casing B, and their lower ends passed through lugs E on the neck and fastened by nuts *f*. By flaring the lower end of the cylinder it is enabled to fit tighter to the neck than
35 it otherwise would.

In the funnel portion of the neck C is a ball-valve, G, which is prevented from rising too high or becoming displaced by means of a rod, *g*, running across the cylinder A. The neck
40 C is connected with a hose, H, by means of a coupling, J. The hose H is made of metal tubing and in sections, and the sections are connected by couplings J of the same description as those which connect the first section to

the neck. The coupling J is made of rubber, 45 with a wire coil, *i*, on the inside, midway of its length, to keep it expanded, and two wire coils, *i*², on the outside, to enable it to fit tightly over the ends of the hose-sections, which are provided with ribs or beads running 50 around them.

The piston or plunger K is made of metal, and is packed with rubber, leather, or other suitable material. It is provided with a puppet-valve, L, with its seat in the top of the piston and its stem working in a bearing in the 55 bottom, and its upward motion is limited by a collar at the lower end of the stem.

The double screen consists of a box, M, with large perforations, and a pipe, N, inside of the 60 box and having smaller perforations. The upper end of the pipe is provided with a rib or bead running around it, and it is connected to the hose H by means of a coupling, J, as above described. The screen thus formed is 65 attached to a wooden block or board, P, large enough to prevent the screen from sinking, so that when drawing water from a stream or pond the screen will float near the surface, and thus draw only the clearest of the water. 70

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of the metallic cylinder A, made slightly flaring at the lower end, the neck C, made funnel-shaped at the top and provided with lugs E, the forked bars D, and nuts 75 *f*, and the wooden casing B, surrounding the cylinder, substantially as herein described.

2. The double screen consisting of the perforated box M and pipe N, attached to the 80 float P, in combination with a hose section or pipe, H, and hose-coupling J, and the pump, substantially as herein described.

ABRAHAM VAN TRUMP.

Witnesses:

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GEORGE RINER.