(No Model.)

J. HARRIS.

PUMP.

No. 251,582. Patented Dec. 27, 1881.

Fig. 1.

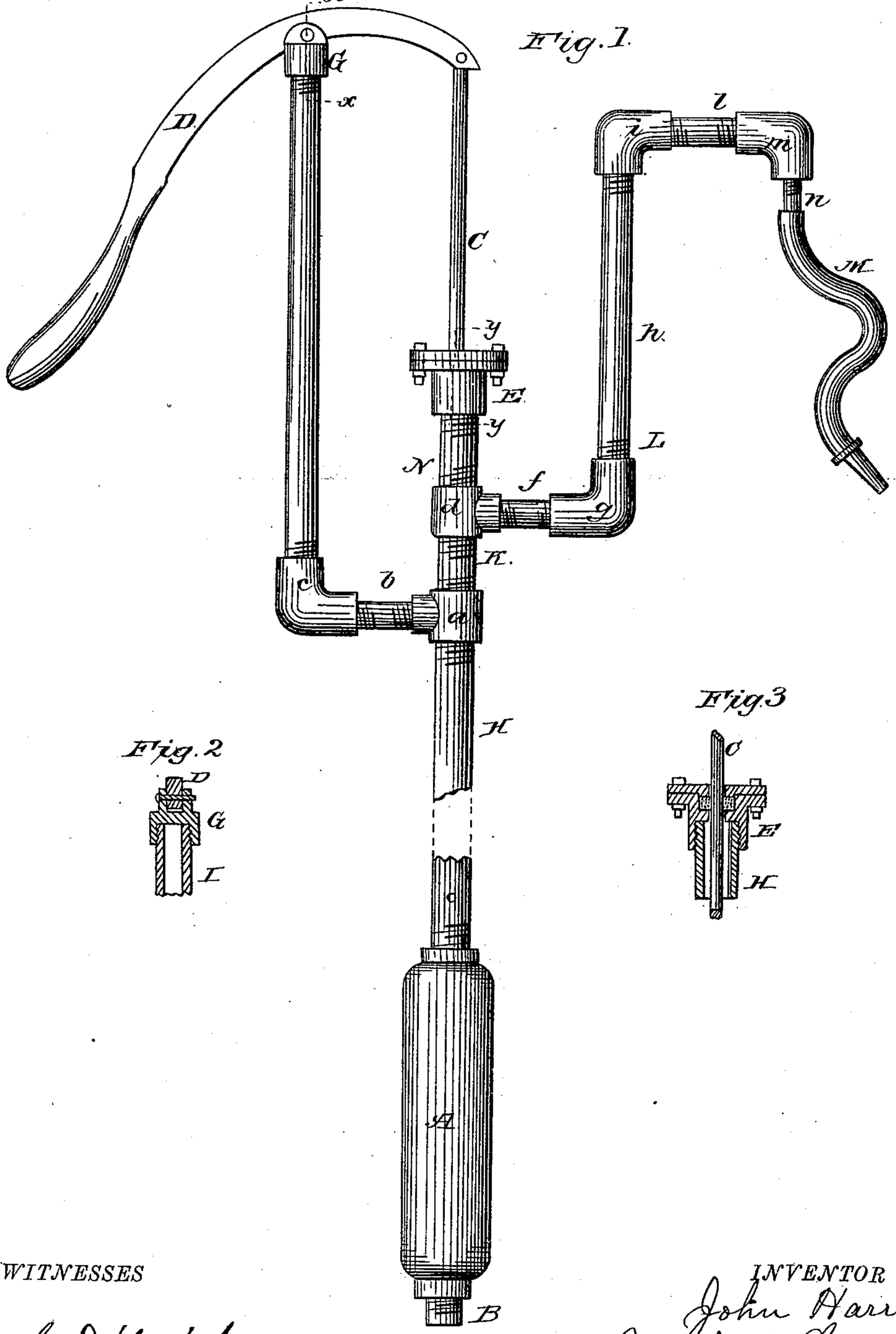

Fig. 2.

Fig. 3.

WITNESSES

Fred. L. Dieterich.
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INVENTOR

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UNITED STATES PATENT OFFICE.

JOHN HARRIS, OF CANISTEO, NEW YORK, ASSIGNOR OF ONE-HALF TO MARTIN O. VANDELINDER AND LAWRENCE ALLISON, OF SAME PLACE.

PUMP.

SPECIFICATION forming part of Letters Patent No. 251,582, dated December 27, 1881.

Application filed August 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN HARRIS, of Canisteo, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Force-Pumps; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification—

Figure 1 being a side view of a force-pump constructed according to my invention; Fig. 2, a section in the line *x x*, Fig. 1; Fig. 3, a section in the line *y y*, Fig. 1.

Like letters designate corresponding parts in all the figures.

In the drawings, A represents a pump-barrel, of any ordinary or suitable construction, to be located in a proper position above the water, which is supplied to the pump through a pipe, B; C, the piston-rod, of any required length to reach from the position of the pump to the place for pumping; and D the pump-handle, of ordinary construction. The piston-rod C moves in a stuffing-box, E, and the pump-handle D is pivoted in a suitable bearing, G.

To the above necessary parts of a force-pump, including the piston and valves, (not shown in the drawings,) I make no claim.

My invention consists in making the remaining parts of the pump of ordinary wrought-iron or gas pipe and pipe-coupling, whereby great convenience and economy, as well as efficiency, strength, and durability, are attained, the materials thereof being ready made and kept for sale in the market, so that any one with ordinary tools can make these pumps to suit any position after procuring the materials and fixtures, as herein set forth.

Thus, to specify the parts, the pump-body or standard H is a piece of iron or gas pipe of a diameter suited to the size of the pump and cut to the length required by the position, and the lower end is simply screwed into the pump-barrel or connected therewith by a pipe-coupling. At the upper end of this main part or standard a T-coupling, *a*, is attached, for supporting an air-chamber, I, which I also make of a simple piece of iron pipe connected with the coupling *a* by a short horizontal piece of pipe, *b*, and a quarter-circle or right-angle coupling, *c*. I make this air-chamber also the standard for supporting the pump-handle D, the bearing G thereof being screwed air-tight upon the said air-chamber. This feature I also claim as a special improvement.

A short standard-extension, K, is screwed to the upper end of the coupling *a*, and another T-coupling, *d*, is screwed to the upper end of the extension. To this latter coupling the spout or discharge-passage L is attached, consisting, first, of a short horizontal piece of pipe, *f*, then a right-angle coupling, *g*, then a piece of vertical pipe, *h*, of any required or desired length, then another right-angle coupling, *i*, to direct the water horizontally, and if the water is to be directed downward another short horizontal piece of pipe, *l*, is to be attached, then another right-angle coupling, *m*, then a short piece of vertical pipe, *n*, which completes the discharge passage or spout. To the latter piece, *n*, a hose-pipe, M, may be attached, if desired. Another short standard-extension, N, is screwed to the coupling *d*, and to this the stuffing-box E is screwed, completing the pump.

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

1. The combination of the standard H, standard-connections K N, horizontal and vertical pipes *f*, *h*, and *l*, all made of common gas-pipe, and the gas-pipe couplings *d*, *g*, and *i*, to form a pump-standard, water-discharge, and their connection, substantially as and for the purpose herein specified.

2. The combination of the standard H, standard-extensions K N, horizontal pipe *b*, air-chamber L, horizontal and vertical pipes *f*, *h*, and *l*, all made of common gas-pipe, and the gas-pipe couplings *a*, *c*, *d*, *g*, and *i*, to form the standard, air-chamber, water-discharge, and their connections, substantially as and for the purpose herein specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN HARRIS.

Witnesses:

OLIVER THORP,

ABRAM COOK.