

W. YOUNG.
Pump.

No. 168,952.

Patented Oct. 19, 1875.

Fig. 1

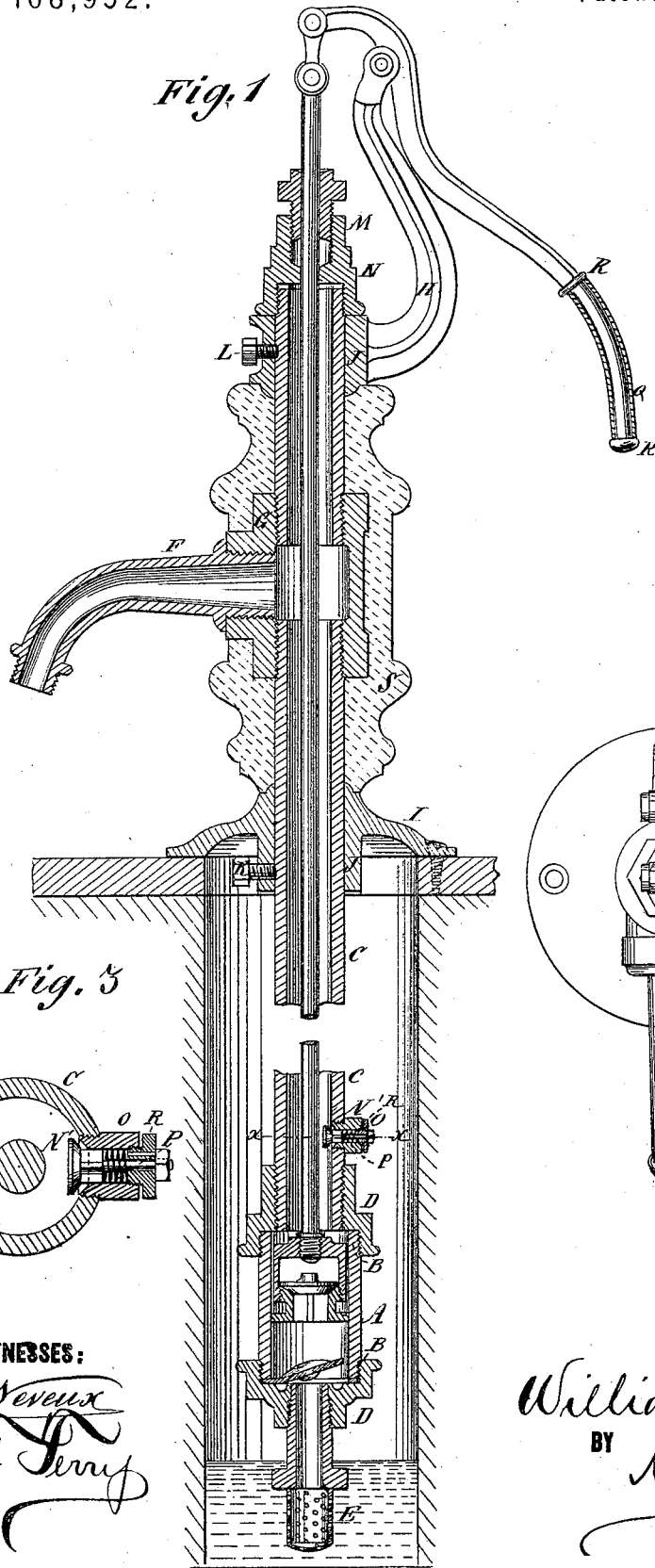


Fig. 2

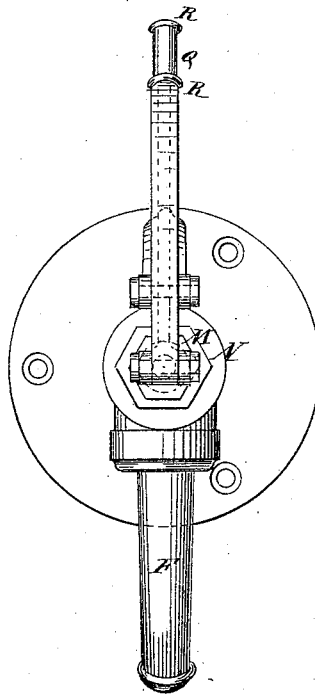
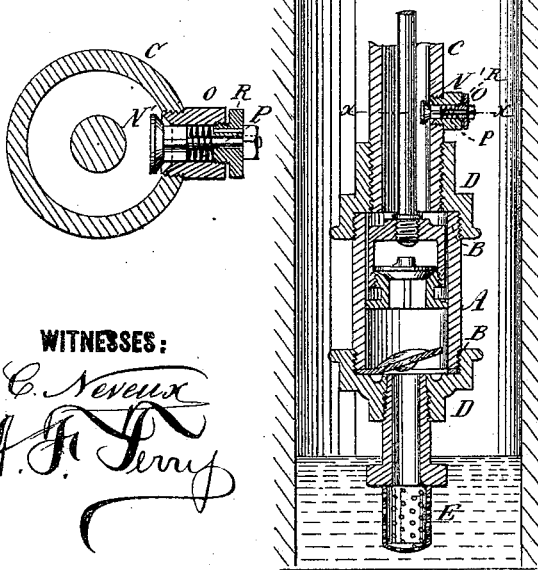


Fig. 3



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UNITED STATES PATENT OFFICE.

WILLIAM YOUNG, OF EASTON, PENNSYLVANIA.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. **168,952**, dated October 19, 1875; application filed August 6, 1875.

To all whom it may concern:

Be it known that I, WILLIAM YOUNG, of Easton, in the county of Northampton and State of Pennsylvania, have invented a new and Improved Pump, of which the following is a specification:

The invention will first be described in connection with drawing, and then pointed out in the claims.

Figure 1 is a sectional elevation of my improved pump. Fig. 2 is a top view, and Fig. 3 is a section on line *x x*.

Similar letters of reference indicate corresponding parts.

I construct the pump-barrel A in suitable sizes and with the requisite threads B, to be coupled onto a galvanized or vulcanized gas-pipe C by a union or reducer, D, as may be preferred, and to have a strainer, E, coupled by the same means. I also construct the spout F to attach by a T, G, with which I make a joint in the gas-pipe for that purpose at the place where the spout is required; and I also construct the handle-bracket H and the base-plate I, each with a socket, J, adapted in size to fit on the pipe and be fastened by a set-screw, K, and in the case of the base-plate socket I have it extended below the plate to conceal it and the set-screw, by which it is fastened. For a force-pump I also provide a cap, L, for the top with a stuffing-box, M. These fillings will be made of any suitable material—for instance, the pump-barrel and

spout and the packing-cup may be made of brass, and the handle-bracket and base-plate may be of iron. N is the waste-valve. It is fitted in a seat-piece, O, screwed into a hole in the side of the pipe, being arranged to close by the pressure of the water when the pump is working, and provided with a spring, P, having power to open it against the water remaining in the pump-tube after the pump stops, to allow the water to run out, so that the pump will not freeze up in cold weather. The spring P is kept in place by a nut, R, which is perforated to allow the waste-water to run out. Q is the rubber hand-protector stretched on the handle between collars. The tube C may be jacketed with wood S to protect it from freezing.

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

1. The base-plate I, connected to the tube C, and made adjustable by the socket J and set-screw K, and the said socket being projected below the plate, substantially as specified.
2. The waste-valve N, seat-piece O, perforated nut R, and spring P, combined with the tube C, substantially as specified.

WILLIAM YOUNG.

Witnesses:

CYRUS B. ALSOVER,
WILLIAM S. SEMPLE.