(No Model.)

F. R. TIBBITTS.

FORCE AND DRAIN FAUCET.

No. 337,210. Patented Mar. 2, 1886.

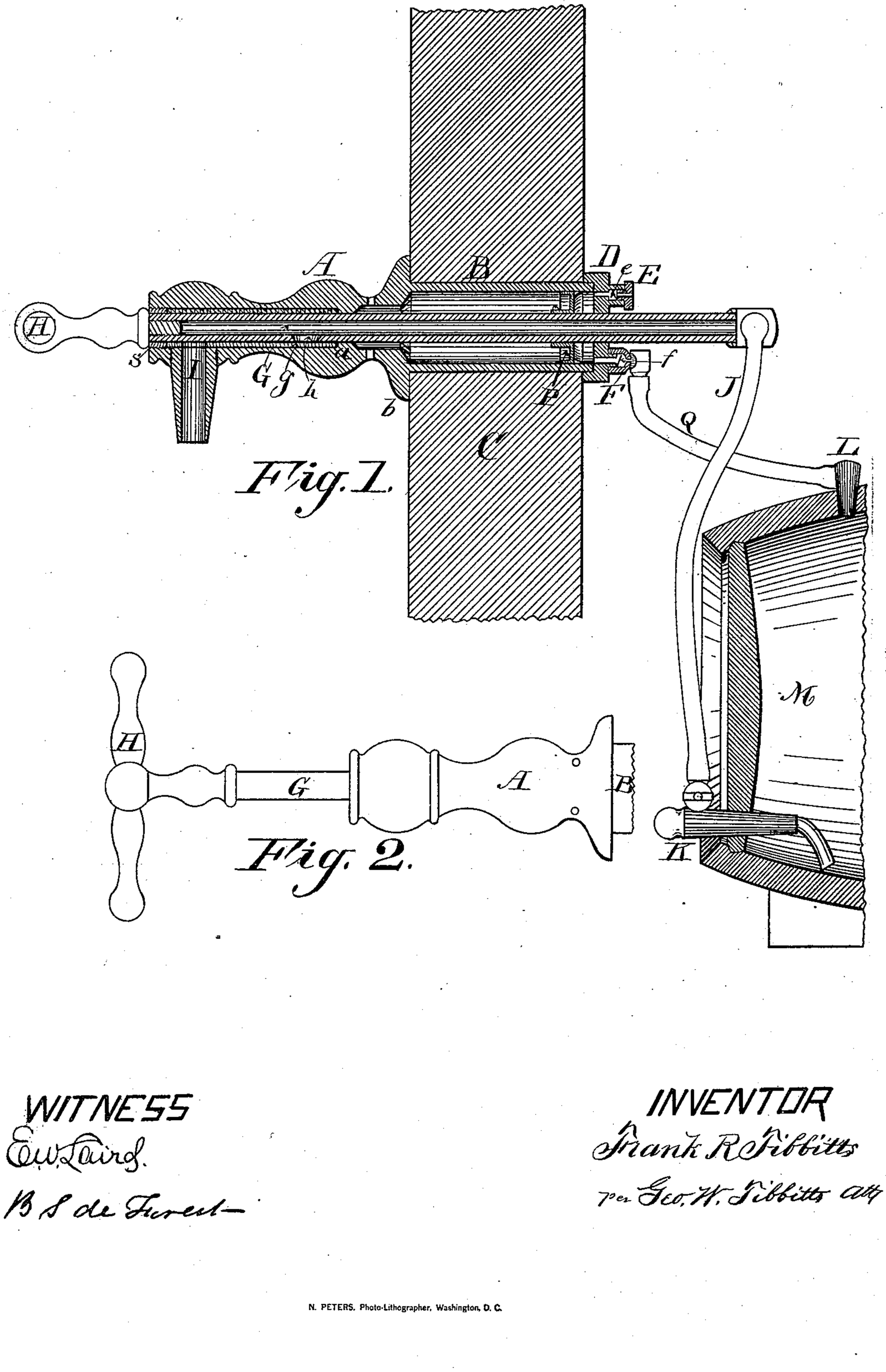

Fig. 1.

Fig. 2.

WITNESS
E. W. Laird.
B. S. de Forest—

INVENTOR
Frank R. Tibbitts
per Geo. W. Tibbitts Atty

UNITED STATES PATENT OFFICE.

FRANK R. TIBBITTS, OF CLEVELAND, OHIO.

FORCE AND DRAIN FAUCET.

SPECIFICATION forming part of Letters Patent No. 337,210, dated March 2, 1886.

Application filed June 26, 1885. Serial No. 169,830. (No model.)

To all whom it may concern:

Be it known that I, FRANK R. TIBBTTS, of Cleveland, in the county of Cuyahoga and State of Ohio, having invented certain new and useful Improvements in Force and Drain Faucets, of which the following is a specification.

This invention has for its object to provide a force and drain faucet for drawing liquids from barrels, economical in construction and operation; and it consists of an air-pump having a tubular piston-rod, (operating the piston,) which also comprises the discharge-tube of the faucet, the pump-barrel consisting of the rear and hidden portion of the faucet-body. Said rod, having a reciprocating movement within the faucet-body, serves to both withdraw liquid by its outward stroke and to inject air by its inward stroke, to supply air to regain and maintain the pressure in the barrel as fast as such pressure becomes reduced by the withdrawal of the liquid.

In the accompanying drawings, Figure 1 is a sectional view showing the interior construction and arrangement of the several parts of my improved faucet and pump and their connection with the cooler and barrel. Fig. 2 is a top side view of the exterior portion of faucet extending outward from the cooler.

A is body of the faucet, the rear portion of which constitutes the pump-barrel B. This pump-barrel portion is fitted into a hole through the wall of the cooler C, a flange, *b*, bearing against the outside surface, leaving the finished and ornamental part of the faucet projecting outward from said surface.

D is the head of the pump-barrel, which is screwed onto the barrel and forms the nut for securing said barrel to the cooler. The head is provided with two nipples, E F, in which are provided valves *e f*.

G is a tubular rod fitted to play through the front end of the faucet-body A and out through a hole in the head D of the pump B. The front end of the body A is bored out somewhat larger than the diameter of the rod down to a shoulder, *a*, in which is placed a tubular packing, *g*, held in place by a tubular screw, *s*, through which the said rod plays.

H is a handle fixed on the end of the tubular rod G, by means of which it is operated. The tubular rod G also has a hole, *h*, which, when the rod is drawn outward, meets a like hole through the packing, and thus brings the interior bore of said rod into communication with the outlet-passage I of the faucet. To the inner end of said tubular rod is attached a hose, J, connecting said rod with the tap-spigot K in the barrel M. To the said tubular rod G is secured the pump-piston P, and the pump-barrel is connected by a hose, Q, attached to nipple F, with the bung L of the barrel. The faucet-body A has holes *o* in the neck, to admit of ingress and egress of air in front of the piston, to prevent any impediment to the moving of the piston by compression or expansion of air in that part of the barrel B.

From the foregoing the operations of my device will be understood to be as follows: By drawing the tubular rod outward, communication is opened for the flow of liquid from the barrel M. At the same time the piston is drawn forward and the pump-barrel is filled with air drawn in through valve *e* from within the cooler; and then, when the rod is again pushed inward, the faucet is closed, and the piston forces air into the barrel M, thus supplying air thereto and keeping up the pressure therein as fast as the liquid is drawn out. Should the barrel M require more pressure, a few short strokes of the piston will readily supply the deficiency.

Having described my invention, I claim—

1. In a force and drain faucet, the combination, with the faucet-body having the pump-barrel integral therewith, of a tubular piston-rod and pump-piston secured thereto, the bore in said piston-rod forming the discharge-conduit for the liquid, as set forth.

2. In a force and drain faucet, the combination, with the faucet-body and pump-barrel, substantially as described, of the tubular piston-rod for the passage of the liquid, and the piston secured thereto and working in the pump-barrel, for supplying air to the barrel or other vessel.

FRANK R. TIBBITTS.

Witnesses:
GEO. W. TIBBITTS,
E. W. LAIRD.