

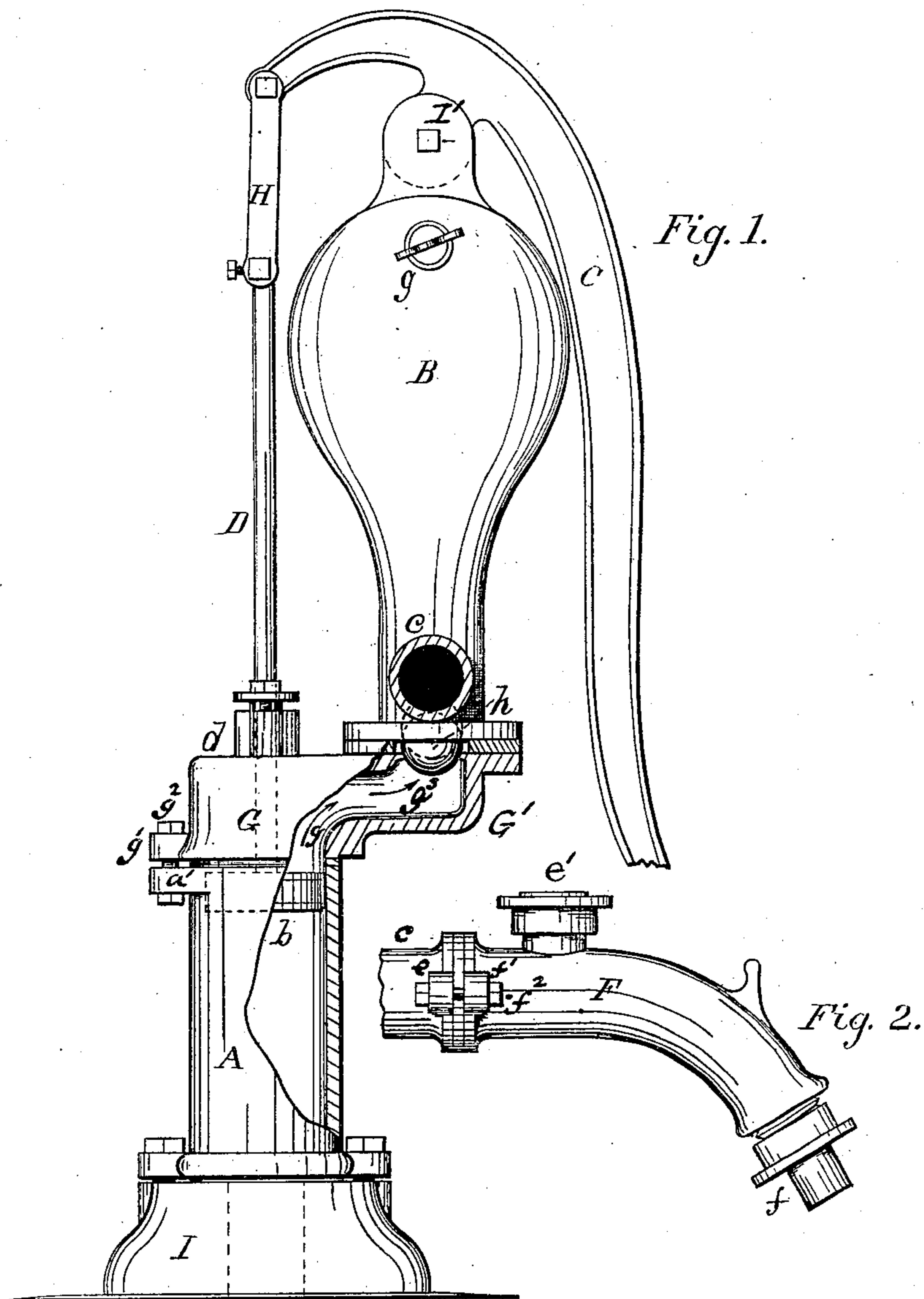
(No Model.)

W. P. FIELD.

PUMP.

No. 267,411.

Patented Nov. 14, 1882.



Attest:

Geo. Shepard.
Selle Crittenden.

Inventor:

W^m P. Field.
By E. B. Whitmore, Atty.

UNITED STATES PATENT OFFICE.

WILLIAM P. FIELD, OF LOCKPORT, NEW YORK.

PUMP.

SPECIFICATION forming part of Letters Patent No. 267,411, dated November 14, 1882.

Application filed May 27, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. FIELD, of Lockport, in the county of Niagara and State of New York, have invented a new and useful Improvement in Combined Cistern and Force Pump, which improvement is fully set forth in the following specification and accompanying drawings.

This invention relates to that class of pumps—such, for example, as shown in Patent No. 174,877—which are convertible into either a force or lifting pump by closing or opening a valve in the air-chamber.

The object of my improvement is to provide an exceedingly-simple construction of pumps, which can be readily taken apart or put together, as may be desired.

To such end my invention consists in the construction and organization of parts herein-after described and claimed, and illustrated in the annexed drawings, in which—

Figure 1 is a side elevation of the pump with a portion broken away. Fig. 2 is a view of the detachable nozzle.

A indicates the pump-cylinder, in which the plunger *b* is fitted to work. This single cylinder is provided at its upper end with one or more lugs, *a'*, and at its lower end is secured to a base, *I*.

G indicates a cap or casing, which is provided with one or more lugs, *g'*, and detachably secured upon the upper end of the pump-cylinder by means of a bolt, *g²*, passing through the lugs *g'* and *a'*. The casing G, which provides a water-chamber, *g*, above the pump-cylinder, has a laterally-extending hollow arm, *G'*, which forms the horizontal water-passage *g³*, leading from chamber *g* to the air-chamber B. The air-chamber B is secured on the outer end of arm *G'*, and is provided with any suitable check-valve, *h*. It is also provided at its base with a short spout, *c*. At its upper end the

shell or casing which forms the air-chamber is provided with lugs *I'*, between which the handle C of the pump is pivoted. The handle connects with the plunger-rod D through the medium of a link, H, and the said rod works through a stuffing-box, *d*, on the casing G.

g indicates a valve, which can be opened when the pump is to be used as a lift-pump, and closed when it is to be used as a force-pump.

F is the detachable nozzle, provided at its inner end with lugs *f'*, one of which is shown. The short spout *c* has lugs *e*, but one being shown, and the nozzle F is detachably connected with the short spout by bolts *f²* passing through the lugs *e* and *f'*.

When used as a force-pump the pipe-connections *e'* and *f* can be attached to the nozzle, the former connection, *e'*, being used in forcing water up into a building.

It will be seen that the nozzle can be detached, when desired, from the air-chamber, and the casing removed from its connection with the pump-cylinder.

What I claim is—

A pump constructed with the single pump-cylinder, the casing G, having a stuffing-box for the rod and a hollow laterally-extending arm, *G'*, and detachably secured to the upper end of the cylinder, the air-chamber B, secured on the outer end of the said arm, and provided at its base with a check-valve and a short spout, *c*, and the nozzle F, constructed as described, and detachably secured to the short spout by means of bolts, said members being all constructed and organized substantially as shown and specified, and for the purpose set forth.

WM. P. FIELD.

Witnesses:

E. B. WHITMORE,
ARDELLE CRITTENDEN.