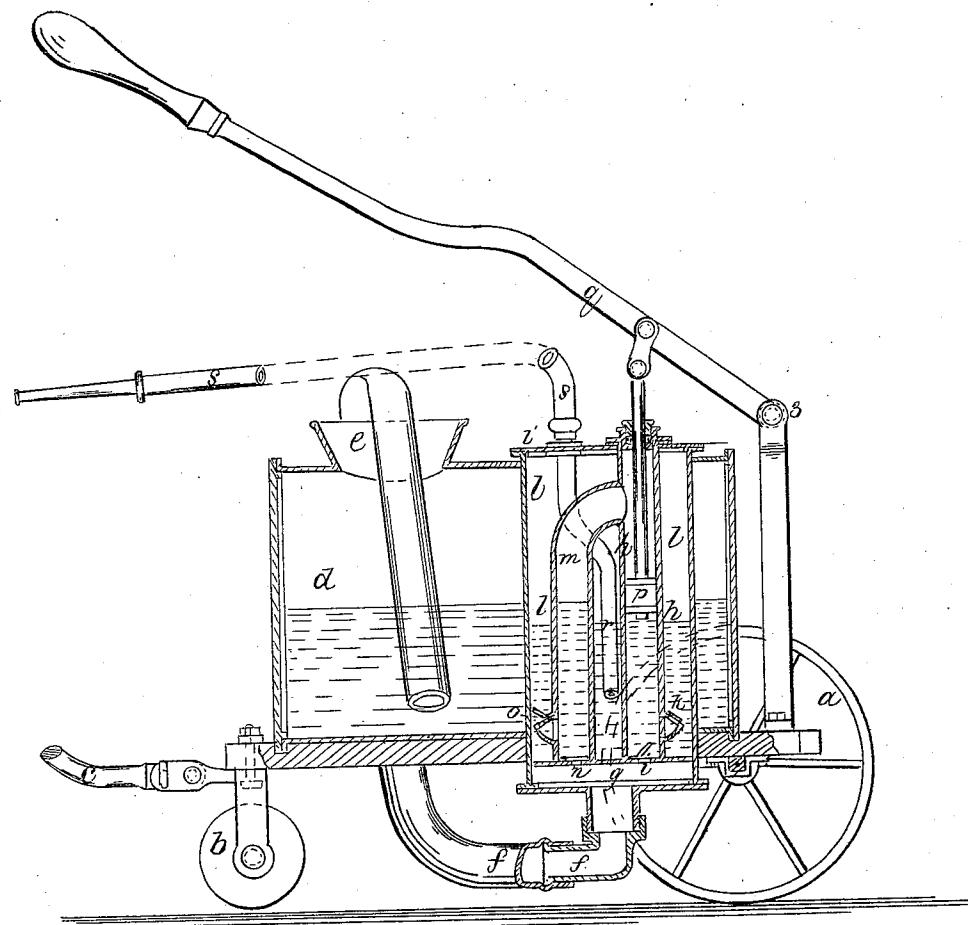


J. A. Cheron,
Fire Engine.

No. 92584.

Patented July 13, 1869.



Jules A. Cheron.
per L. W. Gorrell
Atty.
Chas. H. Smith
Grand Master.

United States Patent Office.

JULES A. CHERON, OF NEW YORK, N. Y.

Letters Patent No. 92,584, dated July 13, 1869.

IMPROVEMENT IN PORTABLE PUMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JULES A. CHERON, of the city and State of New York, have invented and made a new and useful Improvement in Portable Pumps; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein I have represented a vertical section of my said pump.

This portable pump is adapted to use as a garden-engine, for washing windows, or for extinguishing fires.

My invention relates to the combination and arrangement of pipes and valves within an air-vessel, for drawing and forcing water by a piston and lever, in connection with a tank mounted on wheels, the parts being constructed so that the water can be drawn from a cistern or well, to fill the tank, and then the water can be drawn out of the tank, and ejected by a hose and nozzle, the wheels on which the tank and pump are mounted allowing of the water being taken from near the well or cistern to the place at which it is to be used.

In the drawing—

a a are the hind wheels,

b the front wheel or wheels, and

c, the pole or tongue, by means of which the pump may be drawn from place to place.

d is a reservoir or tank, of any suitable size, with an opening, at *e*.

f is the suction-pipe, opening into the chamber *g*, below the pump *h*.

i is the inlet-valve to the bottom of the pump *h*, and

k is the outlet-valve, that allows water to pass into the air-vessel *l*, that contains the pump.

From the top of the pump, a pipe, *m*, opens into

the chamber *g*, where it is provided with the induction-valve *n*; and

o is the eduction-valve into the air-chamber *l*.

p is the piston of the pump, and

q, a lever, attached by the fulcrum *z*, and jointed to the rod of the pump-piston.

r is the pipe to which the hose or nozzle *s* is attached.

The air-vessel *l* has a movable cover, *t*, so that the parts of the pump and valves are easily accessible.

The suction-pipe *f*, with an ordinary strainer, is inserted into the well or cistern, and the nozzle *s* introduced through the opening *e*, so as to draw the proper quantity of water, and deliver it into the tank *d*.

The pump is to be taken to the place where it is to be used, and the nozzle *s* taken out of *e*, and the suction-pipe *f* inserted, and the water drawn from the tank, and ejected through the nozzle *s*, for watering a garden, or for any other use.

My apparatus is strong, portable, reliable, and always ready for use. The pump is double-acting, and there is no risk of injury in transportation. The movable head to the air-vessel allows access to the pump, if it becomes necessary.

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

The pump *h* and pipe *m*, within the air-vessel *l*, and fitted with the valves *i k n o*, as specified, in combination with the suction-pipe *f*, delivery-pipe *s*, and tank *d*, with the opening *e*, the apparatus being set on wheels, so as to be portable, as set forth.

In witness whereof, I have hereunto set my signature, this 16th day of April, 1869.

JULES A. CHERON.

Witnesses:

CHAS. H. SMITH,

GEO. T. PINCKNEY.