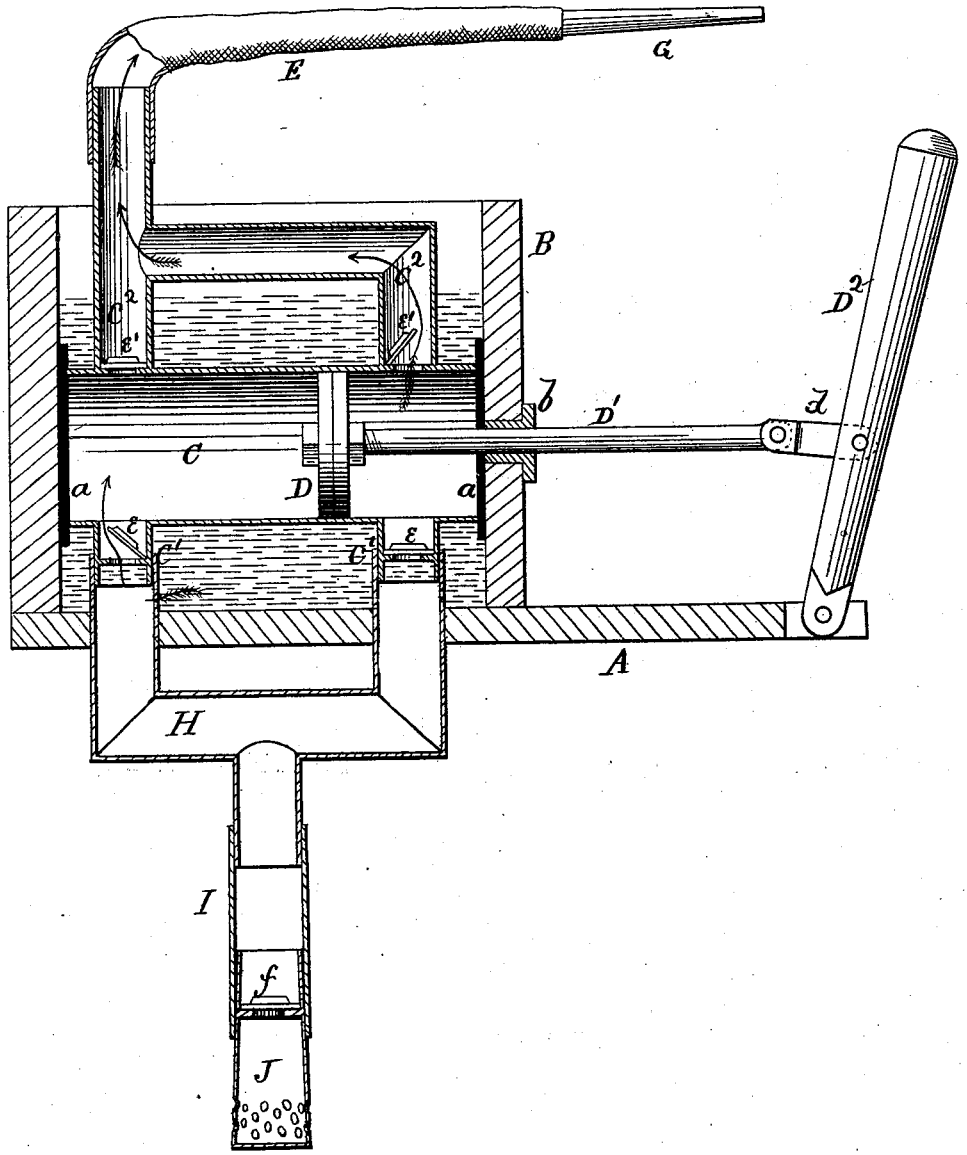
C. A. CARR.

Double-Action Pump.

No. 205,052. Patented June 18, 1878.



WITNESSES

Henry W. Miller

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INVENTOR

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UNITED STATES PATENT OFFICE.

CLAYBORN A. CARR, OF CASEY, ILLINOIS.

IMPROVEMENT IN DOUBLE-ACTION PUMPS.

Specification forming part of Letters Patent No. **205,052**, dated June 18, 1878; application filed May 15, 1878.

To all whom it may concern:

Be it known that I, CLAYBORN A. CARR, of Casey, in the county of Clark, and in the State of Illinois, have invented certain new and useful Improvements in Pumps and Fire-Extinguishers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a pump and fire-extinguisher, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a longitudinal section of my machine.

A represents a bed or base, upon which is fastened a box, B. This box contains a horizontal cylinder, C, clamped between the sides of the box, suitable packing *a* being placed between the ends of the cylinder and the sides of the box to make water-tight joints.

Within the cylinder C operates a piston, D, provided with a rod, D^1, which passes out through a stuffing-box, *b*, in one side of the box; and this rod is, by a jointed arm, *d*, connected with a lever, D^2, pivoted at its lower end in or to the base A, so that by working the upper end of said lever back and forth the piston D will obtain the requisite motion.

In the bottom of the cylinder, near each end, is a tubular projection, C^1, extending downward and containing a check-valve, *e*.

In the top of the cylinder, near each end, is an outlet-pipe, C^2, which has a check-valve, *e'*, at the lower end, as shown. The two outlet-pipes C^2 C^2 unite into one pipe, and on the end thereof is attached a hose, E, with nozzle G.

The box B being filled with water, the lever D^2 is worked back and forth, when the piston D will thereby be operated, and throw a continuous stream of water through the nozzle G.

To draw the water from a well or cistern, an elbow-pipe, H, having two elbows or arms, is used, said arms being passed upward through the base A and placed over the ends of the inlet-tubes C^1 C^1. The center of the pipe H has a tubular arm, which, by a hose, I, connects with a strainer, J, and within this strainer is a check-valve, *f*. The hose, with strainer, is thrown into the well or cistern, and by working the lever D^2 the water is drawn up and discharged as before.

This device is intended for use both as an ordinary pump and as a fire-extinguisher or fire-engine.

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

The within-described pump and fire-extinguisher, consisting of the box B, cylinder C, with packing *a* at its ends, the piston D, with its rod and operating-lever, diverging supply-pipe, with strainer and valves, and converging eduction-pipes, with valves, hose, and nozzle, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of August, 1877.

C. A. CARR.

Witnesses:
J. M. STARK,
G. W. CLEM.