

A. C. BALDWIN.

Pump.

No. 126,509.

Patented May 7, 1872.

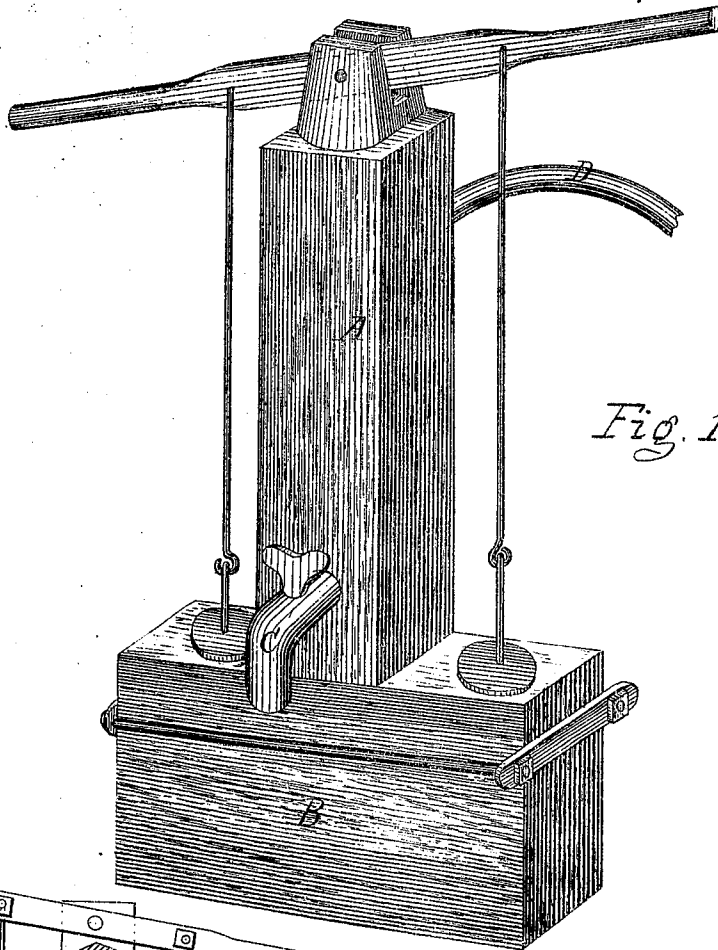


Fig. 1

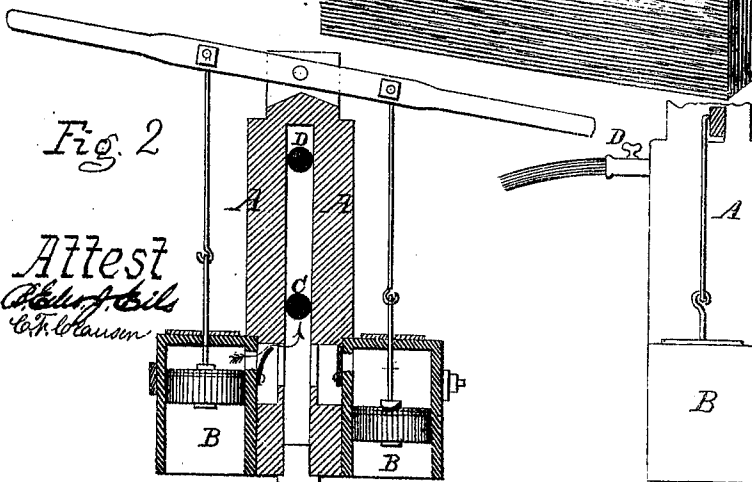


Fig. 2

Attest
Robert C. Mills
Clerk

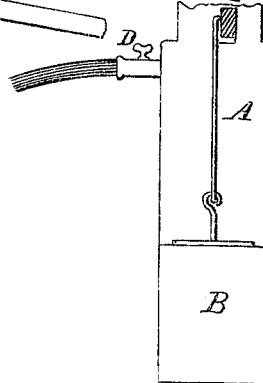


Fig. 3

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UNITED STATES PATENT OFFICE.

ASAHEL C. BALDWIN, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR
TO HIMSELF AND S. W. LLOYD, OF SAME PLACE.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. 126,509, dated May 7, 1872.

Specification describing certain Improvements in Pumps, invented by ASAHEL C. BALDWIN, of Washington, county of Washington, and District of Columbia.

Figure 1 is a perspective view of a pump having my improvements attached thereto. Fig. 2 is a sectional elevation, showing the construction of the pump with the discharge-orifices; and Fig. 3 is a transverse section, showing the ordinary discharge-pipe and a discharge-pipe to which a hose is attached, which is to be used in case of a fire.

Corresponding letters of reference in the several figures are used in designation of identical parts.

This invention relates to that class of pumps which are designed for use for domestic purposes, but which are applicable in any place where water is to be raised from a well or cistern to be used for the extinguishing of fires, or for any other purpose; and it consists of combining, with the stock or chamber of a pump which receives the water from the buckets which raise it, two or more independent discharge pipes or nozzles, to one of which a hose and discharge-pipe is attached, to be used in case a fire should occur in or near the building in which the pump is placed, both of the discharge-nozzles being provided with a cock or valve for the purpose of preventing water from passing out through them when it is desirable to have it all pass through one or the other.

In constructing pumps for domestic purposes it is desirable to have them so arranged that they can be used as an engine for extinguishing fires should any occur, and also that the same can be used for the purpose of elevating water for use in the house or yard in which it may be placed; and in order that it may possess the greatest amount of efficiency it is absolutely necessary that the parts should be so arranged that the discharge of water from the ordinary outlet to the one through which it is to be discharged in case of a fire should be capable of being made in the shortest possible space of time; and in constructing pumps which are capable of such rapid manipulation I use any approved form of pump A, but by preference one having two lifting

and forcing cylinders and pistons, B B, both of which discharge the water into a common stock or chamber, one form of such pump being clearly shown in the drawing, but which, when considered independently of its combination with other devices, forms no part of my present invention, and consequently need not be particularly described here. In order that a pump may be adapted to the uses above referred to, and in order that it may readily be changed from an ordinary pump to an engine for extinguishing fires, I combine with its stock or chamber, which receives the water from its cylinder or cylinders, two or more discharge-nozzles, C and D, each of which is controlled by a stop-cock or valve, so that when the water is being used for use in the house, and is to be drawn into a bucket or other vessel, the cock or valve in the nozzle D is closed and the one in C left open; but when it is necessary to use the pump as an engine for extinguishing fires the cock or valve in C is closed and the one in D is opened, which change can be effected in a very short space of time; and as there is to be a hose and proper discharge-pipe constantly attached to the nozzle no appreciable length of time is allowed for the fire to burn while preparing to extinguish it, as is the case with all of the devices for the same purpose with which I am acquainted.

I am aware that pipes or hose have been applied to the discharge-nozzles of pumps for the purpose of throwing water upon fires; but in all such cases, so far as I am informed, such hose has been attached to the ordinary discharge-nozzle, and consequently, upon the occurrence of a fire, a considerable amount of time necessarily elapsed in securing the nozzle and in attaching the hose—enough, in some cases, to cause great destruction of property, which could otherwise have been avoided.

In view of the fact that pumps have been constructed as above described, I do not claim, broadly, attaching a hose to an ordinary pump or the conversion of such pump into an engine for extinguishing fires; but

Having thus described my improvement, what I claim, and desire to secure by Letters Patent, is—

Combining with the barrel or receiving-

chamber of a pump two or more discharge-nozzles, each of which is controlled by a cock or valve, one or more of such being supplied with a hose, and the parts being arranged to operate substantially as and for the purpose set forth.

In testimony whereof I have signed my name

to this specification in the presence of two subscribing witnesses.

ASAHEL C. BALDWIN

Witnesses:

B. EDW. J. EILS,
C. F. CLAUSEN