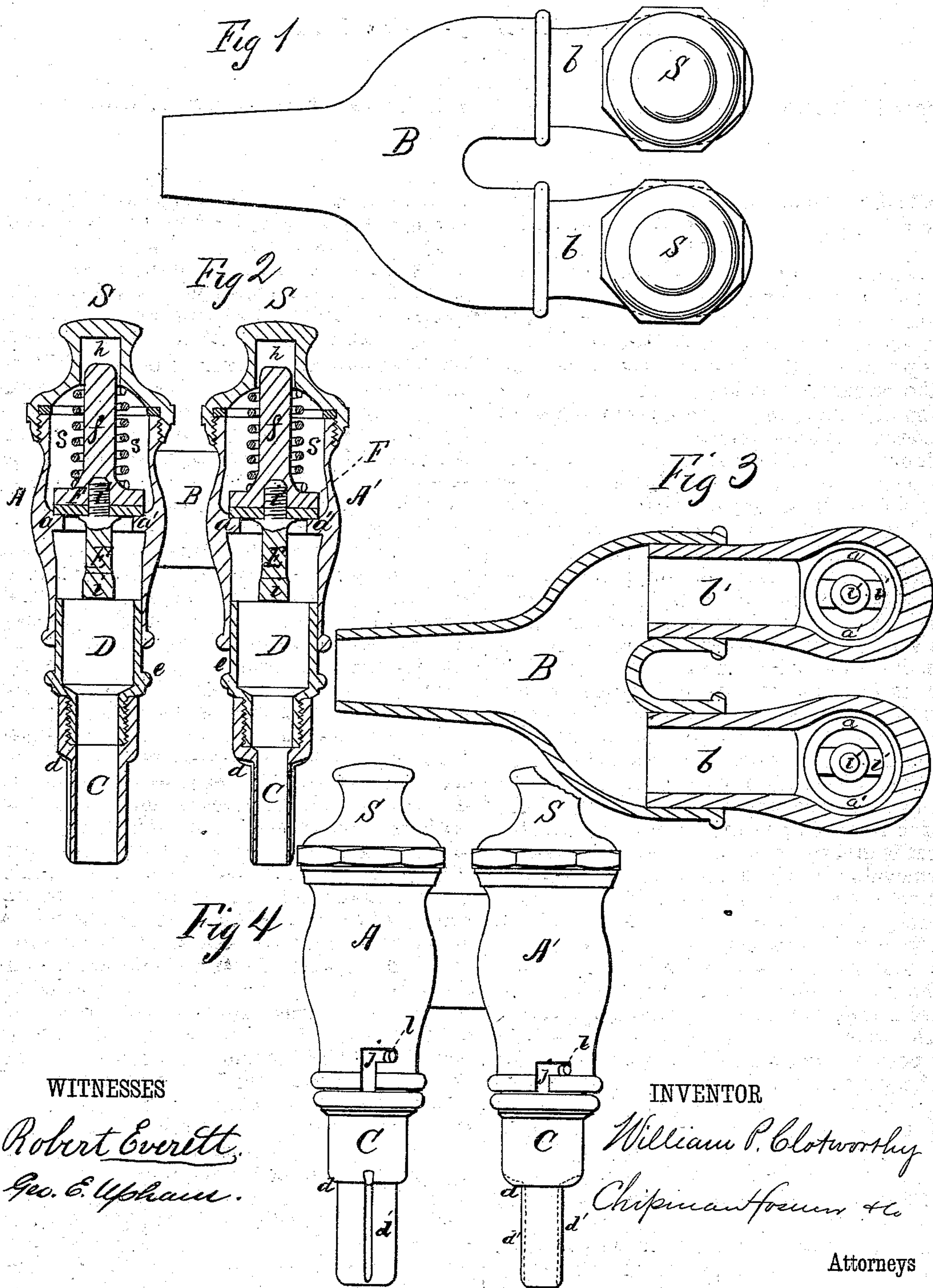


W. P. CLOTWORTHY.

Faucets.

No. 154,020.

Patented Aug. 11, 1874.



WITNESSES

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WILLIAM P. CLOTWORTHY, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN FAUCETS.

Specification forming part of Letters Patent No. 154,020, dated August 11, 1874; application filed July 3, 1874.

To all whom it may concern:

Be it known that I, WILLIAM P. CLOTWORTHY, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and valuable Improvement in Faucets; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my automatic faucet. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a horizontal sectional view of the same. Fig. 4 is a front view of the same.

This invention has relation to automatic faucets for drawing liquids from barrels or cisterns. The novelty consists in a valve attached to a vertically-movable lifter therefor, having upon its lower end a nozzle, which valve is held down upon its seat by a spring, to prevent the escape of a fluid through the faucet from a cask, and is raised from its seat by forcing the nozzle upward to permit the escape of a liquid, whereby a lever is dispensed with for opening or closing the said valve, and the friction thereof upon the interior walls of the faucet is greatly reduced. It also consists in a removable nozzle applied upon the lower portion of the vertically-movable valve-lifter, whereby a nozzle adapted to the size of the mouth of any bottle may be fitted thereto. It also consists in a bayonet-catch constructed in the lower wall of a faucet, into which is engaged a projection upon the vertically-playing nozzle, whereby the said nozzle may be held in a position for keeping the valve open for discharging a liquid as long as may be requisite, without effort on the part of the operator. It finally consists in vertical grooves cut in the vertically-playing nozzle, whereby air is allowed to escape from a bottle when it is being filled, all as will be hereinafter more fully explained.

In the annexed drawings, A A' designate the hollow bodies of my improved faucets, which are attached by means of necks b b' to a bifurcated hollow induction pipe or stem, B, and are provided with valve-seats a a' below the entry-ports of the said stem. C designates

metallic nozzles, having shoulders d upon their middle portion, against which the mouth of a bottle is pressed when it is being filled, the air being allowed to escape through grooves d' cut from the shoulders d to the ends of said nozzles, in the lower ends thereof. These nozzles are removably applied, by means of suitable screw-threads, to valve-lifts D, which are preferably of cylindrical form, as respects their lower portion, and are provided with a shoulder, e, just above the point of union with the nozzles C, for a purpose hereinafter to be explained. Their upper portions are each provided with an arm, E, erected upon a diametrically-applied cross-bar, i, upon the cylindrical portions of the valve-lifts D, which arms are each constructed with an enlarged portion, i, having a flat upper surface, and terminating in a screw-threaded projecting part, i'. The combined nozzles and valve-lifts are now inserted from below, valve-lifts upward, into the bodies A A' of the faucets, and leather or other suitable washers, having central perforations, are placed upon the upper flat surfaces of the enlargements i, the projecting parts i passing through the said washers. If, now, valves F be screwed down upon the washers to the stems i' of the valve-lifts D, the said washers with the valves will rest upon the valve-seats a a' and prevent any liquid from escaping into the body of the faucet, since said valves are below the entrance ports of the stems into the bodies of the faucets; but if the nozzles be thrust upward a sufficient distance, the valves will be carried by the valve-lifts above the said entry-ports, and a free egress allowed to the liquid into the bodies A A' of the faucets, thence through the nozzles into a vessel. Upon the valve F I have caused to be erected cylindrical guide-rods f, around which are coiled suitable helical springs, s, which guide-rods pass up into a chamber, h, formed in the upper portion of a hollow screw-cap, S, which closes the upper portions of the bodies A A' of the faucets, as shown in Fig. 2. If, now, the nozzles be thrust upward, the spring s will be caused to contract, and when the pressure is removed from the nozzle it will instantly cause the valve to be forced against the valve-seats a a', and the escape of liquid immediately stopped.

In order to be able to use my improved faucets without requiring the constant supervision of an attendant while a liquid is being passed from a reservoir into a vessel, I have caused to be made through the lower portions of the bodies A A' thereof, bayonet-notches *j j*, into which are engaged, in the usual well-known manner, pins *l* upon the lower portions of the valve-lift *o*, when it is desired to cause a liquid to flow uninterruptedly into a vessel. A disengagement of the pin from the notch will produce a cessation of said flow.

It will be seen from the above description that, as the faucets act independently of each other, one or both may be used at the same time—that is to say, two vessels, one in each hand, may be filled at the same time, or a single bottle may be filled, as may be desired. It will also be seen that the faucet is automatic in its closing or cutting off the flow of the fluid, and that, by means of the bayonet-notch and its engaging-pin, I can cause an uninterrupted flow of a liquid through the faucet without requiring the attendance of the operator.

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

1. In an automatic faucet, the combination, with a valve, F, having a guide-rod, *f*, of the vertically-movable valve-lift D, the removable nozzle C, spring *s*, and chamber *h* of the removable screw-cap S, substantially as specified.

2. The combination, with a removable nozzle, C, having a shoulder, *d*, and vertical grooves *d'*, of a vertically-playing valve-lift, D, substantially as specified.

3. The bayonet-notch *j* in the body A of a faucet, in combination with the pin *l* on a vertically-playing valve-lift D, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WM. P. CLOTWORTHY.

Witnesses:

D. J. SCOTT,

OTTO CHRISTE.