A. ZOLLER.

BARREL-WASHER.

No. 191,506. Patented May 29, 1877.

Fig. 1.

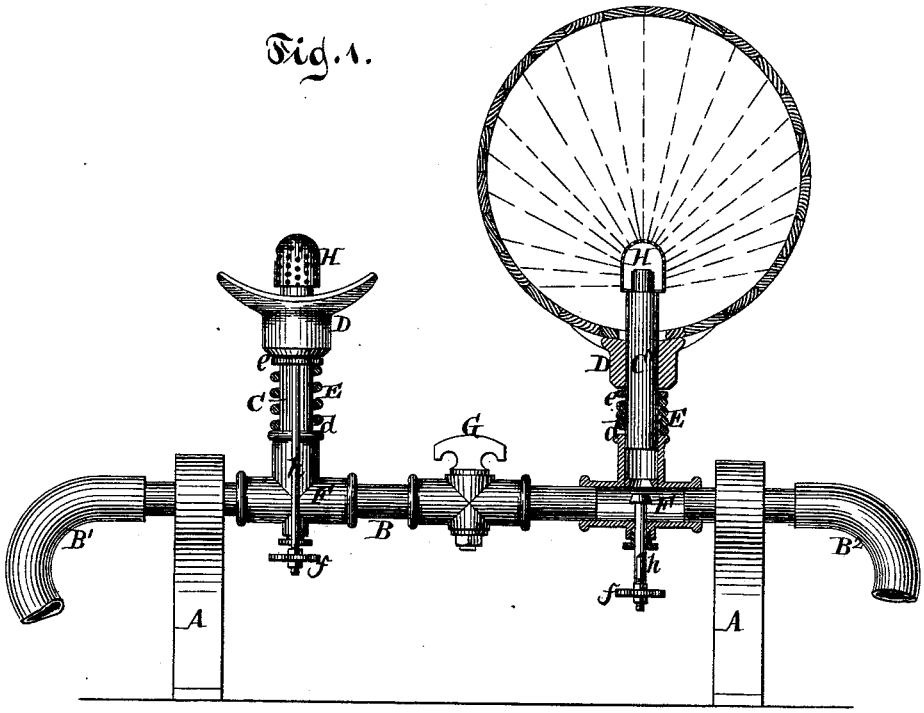


Fig. 2

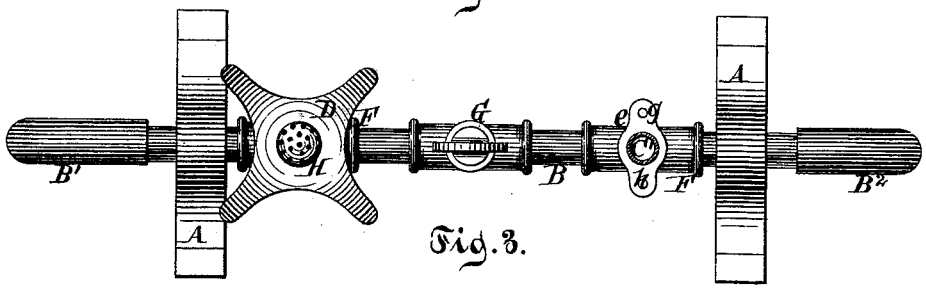
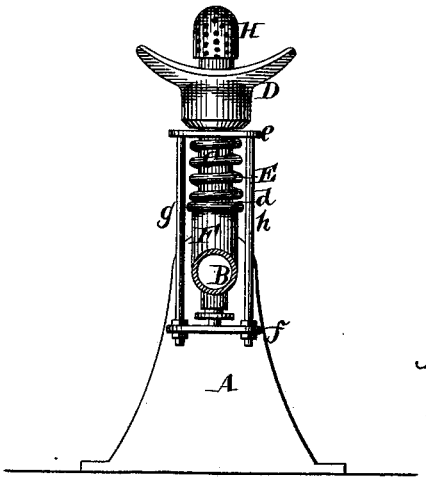


Fig. 3.



Witnesses.
Chas. Wahlers.
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UNITED STATES PATENT OFFICE.

ALBERT ZOLLER, OF HOBOKEN, NEW JERSEY.

IMPROVEMENT IN BARREL-WASHERS.

Specification forming part of Letters Patent No. **191,506**, dated May 29, 1877; application filed May 2, 1877.

To all whom it may concern:

Be it known that I, ALBERT ZOLLER, of Hoboken, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Barrel-Washers, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side elevation of my machine, partly in section. Fig. 2 is a plan or top view thereof. Fig. 3 is a transverse section of the same.

Similar letters indicate corresponding parts.

My improvement has reference to machines for washing or rinsing barrels; and it consists in a spring-supported barrel-holder, which is arranged to slide on a vertical pipe containing a feed-valve, and which is connected with said valve in such a manner that the valve partakes of the motion of said holder, and thus when a barrel to be washed is placed on the said holder, the end of the vertical pipe being caused to enter the barrel through its bung-hole, the weight of said barrel causes the holder to move or slide downward against the action of its supporting-spring, and by this means the feed-valve is opened, and water or other rinsing liquid is admitted to the vertical pipe, and ejected therefrom into the barrel, a rose or sprinkler being secured to the upper end of the vertical stationary pipe, so that the water or other rinsing liquid is ejected therefrom in various directions, and this rose or sprinkler is so arranged that it can be removed when it is desired to clean the same, or for any other purpose. It consists, also, in combining the said vertical pipe with a main or supply pipe, having two or more such vertical pipes combined therewith, so as to adapt my machine to washing two or more barrels at one time, and between the vertical pipes is arranged a check-valve, so that I am enabled to admit either hot or cold water, or other liquids, to either of the vertical pipes, as hereinafter more fully explained.

In the drawing, the letter A designates two standards composing the frame of my machine, and forming a support for a horizontal pipe, B, from which rise two pipes, C C′, more or less, each of which forms a guide for a vertically-movable barrel-holder or support, D. This barrel-holder D is preferably made in form of a bifurcated sleeve, which is fitted on the pipes C C′, and rests on a spring, E, composed of a piece of wire coiled on such pipe or pipes, and resting on a shoulder, *d*.

In the lower parts of the pipes C C′ are arranged feed-valves F, which are each connected with the barrel-holder D, situated above it, in such a way that the valve is opened when the barrel-holder is moved downward against the action of the supporting-spring E. The barrel-holder D is moved downward by the weight of the barrel which is placed upon it to be washed, and thus if the barrel is so adjusted that the pipe C or C′ enters the same through its bung-hole, as shown in Fig. 1, the water or other rinsing liquid, which is admitted to the pipe when the feed-valve F is opened, is discharged into the barrel. In the example shown the mechanism for connecting the barrel-holder or support D with the feed-valve F consists of a sliding frame, constructed of an upper and lower plate, *e f*, and two connecting-rods, *g h*, the upper plate *e* being guided on the vertical pipe or pipes C, and being situated immediately beneath the barrel-holder D, while the lower plate *f* is affixed to the stem of the feed-valve F. When the barrel-holder D is moved downward it comes in contact with the upper plate *e* of the sliding frame, and imparts a downward motion thereto, whereby the feed-valve F is opened, while at the same time the barrel-holder D is susceptible of being turned in either direction.

The upper end of the pipe or pipes C is provided with a rose or sprinkler, H, which is simply slipped over said end, or which may be secured by means of a screw-thread, so that it is rendered detachable. I am thus enabled to clean the rose or sprinkler H of any sediment which may accumulate therein, and to keep its perforations free of dirt with great facility.

The horizontal pipe B constitutes a main or supply pipe for the liquid used for washing purposes, and to its ends are connected flexible pipes B^1 B^2 to form a connection with a reservoir. In the pipe B, moreover, is arranged a check-valve, G, which is situated between the pipes C. If the flexible pipe B^1 is connected with a reservoir containing hot

water, and the valve G is closed, such hot water is admitted to the vertical pipe C, while, when the valve G is opened, the hot water is admitted to the vertical pipe C′.

In the same manner either hot or cold water, or any other liquid, can be admitted to the pipe C or C′ through the flexible pipe B^2. The flexible pipes B^1 B^2 are provided with stop-cocks at any suitable points.

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

1. The combination, in a barrel-washing machine, of a main or supply pipe, a stationary pipe, C, rising from the same and carrying the rose head H, a spring-supported barrel-holder, D, arranged to move upon the stationary pipe C, and a check-valve, F, arranged in the latter, and a rod or rods connected with the check-valve, and adapted to connect with the sliding barrel-holder on the vertical stationary pipe, substantially as and for the purpose described.

2. The combination of two standards, A A, a horizontal supply-pipe, B, two or more vertical stationary pipes, C, having roses H, and rising from the supply-pipe, the spring-supported barrel-holder D, arranged to slide on the stationary pipes C, the check-valves F in the latter, and rods *g* and *h*, connected with the check-valve, and upon which the barrel-holders bear, substantially as and for the purpose described.

3. The combination of a main or supply pipe, B, two or more stationary vertical pipes, C, connected with said main or supply pipe, and a check-valve, G, arranged in the main or supply pipe, substantially as and for the purpose described.

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

ALBERT ZOLLER. [L. S.]

Witnesses:
W. HAUFF,
E. F. KASTENHUBER.