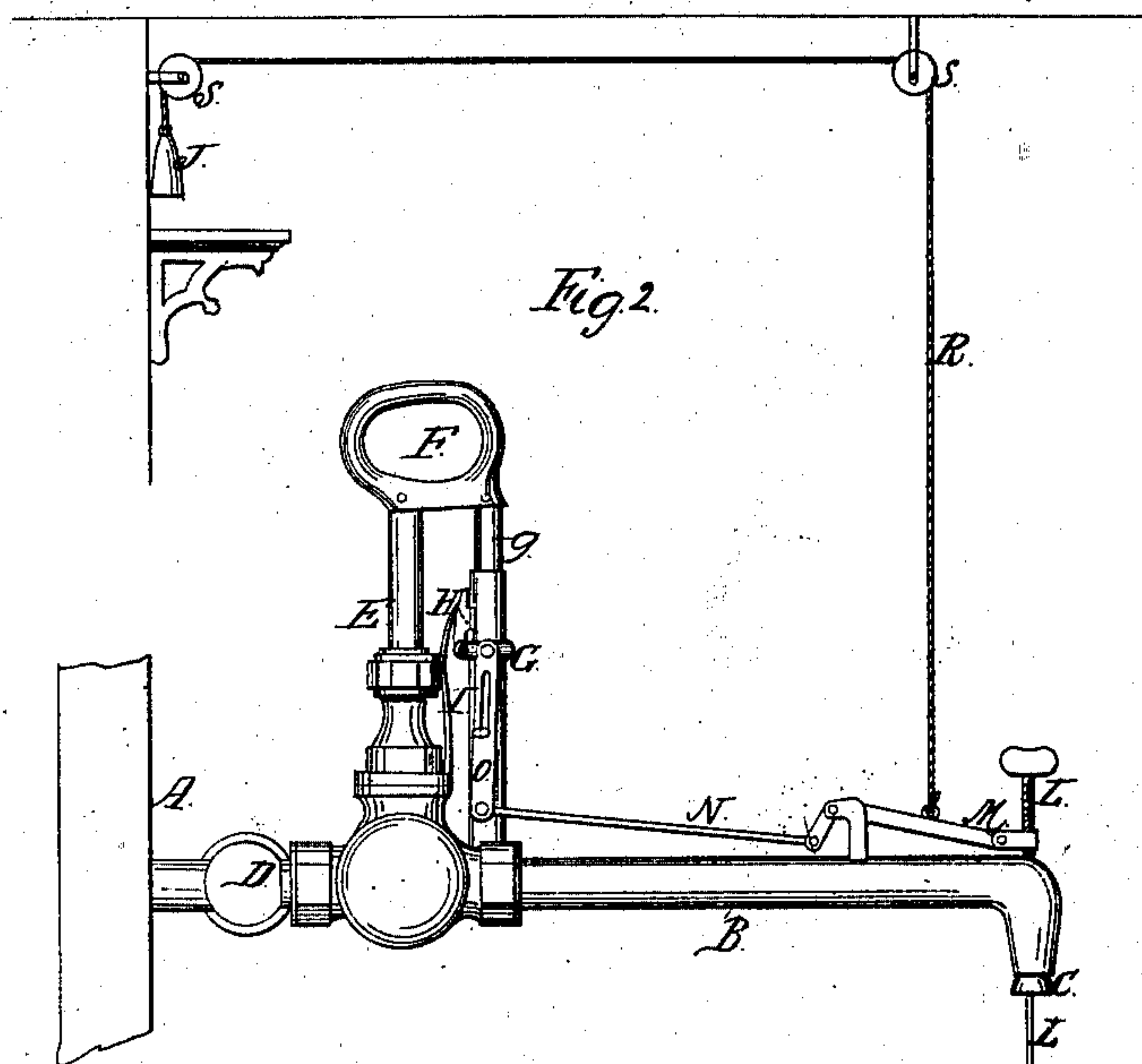
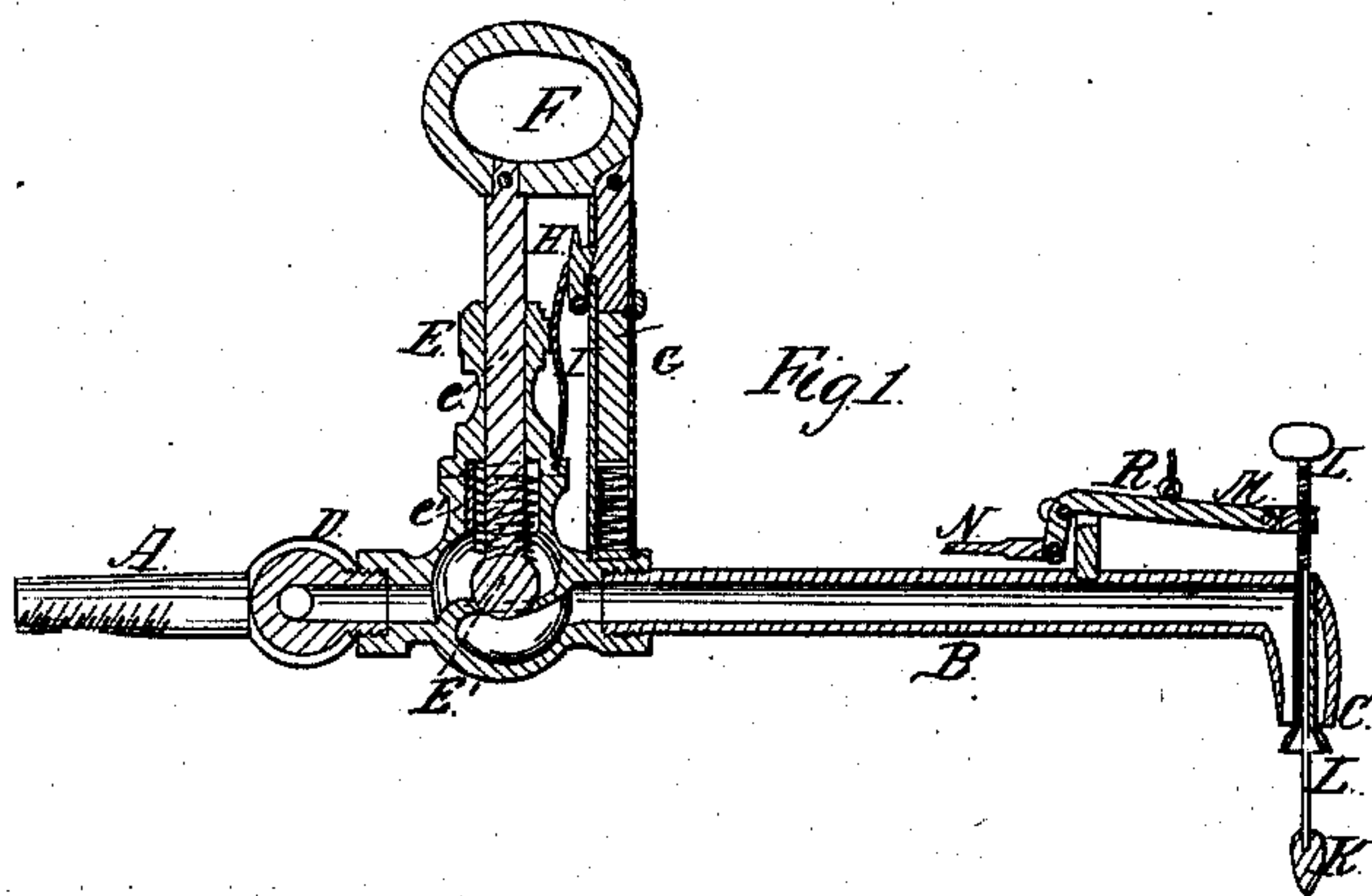


W. S. Payne,

Filling Barrels,

N^o 68,649.

Patented Sep. 10, 1867.



Witnesses
Chas. A. Pettit
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WILLIAM S. PAYNE, OF PETROLEUM CENTRE, PENNSYLVANIA.

Letters Patent No. 68,649, dated September 10, 1867.

IMPROVEMENT IN AUTOMATIC SELF-CLOSING BARREL-FILLING APPARATUS.

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, WILLIAM S. PAYNE, of Petroleum Centre, in the county of Venango, and State of Pennsylvania, have invented a new and improved Automatic Barrel-Filler; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a longitudinal vertical section of my invention.

Figure 2 is a side elevation of the same.

Similar letters of reference indicate corresponding parts in the two figures.

In this invention when the barrel is filled the spigot closes itself and lifts itself out of the barrel automatically. This barrel-filler is designed to be used for filling casks, tanks, cisterns, the water-tanks of steam engines, and, in general, all vessels or receptacles that are to be filled with liquids. Its object is to economize labor, one man with my barrel-filler being able to accomplish the work of six men without it.

In order that others skilled in the art to which my invention appertains may be enabled to make and use the same, I will proceed to describe it in detail.

In the drawings, A represents the end of the spigot that is attached to the reservoir. B is the body or tube of the spigot, emptying the fluid into the vessel to be filled at C. The tube B is jointed to the pipe A by the water-tight joint D, which permits the end C to be raised or depressed. E is a vertical tube, attached to the tube B, within which is the rod *e*, bearing on its lower extremity the valve E', which when elevated opens, and when depressed closes the passage from the reservoir to the barrel. The rod *e* plays freely up and down in the tube E, and is provided with a spring, *e'*, to hold it and its attached valve down tightly. At the top of the rod *e* is a handle, F, by means of which the rod *e* is lifted, and the spigot opened. When the rod *e* is thus lifted the rod *g* attached to the handle F rises in the tube G, which is also a vertical tube affixed to the spigot B, and the stop H is forced under it by the spring I, holding it up, and thus holding the spigot open. The liquid now flows freely into the cask until it is full, when the cork K is lifted by it, and elevates the rod L, operating the lever M, pitman N, and lever O, and by means of the trigger P pushes the stop H out from under the rod *g*, and permits the valve E' to close the spigot. R is a cord, attached to the lever M or rod L, running over the pulleys S S, and weighted at T. The weight J is so proportioned to the weight of the movable part B of the spigot that when the latter is filled with the running fluid it will outweigh the former, but when emptied by the closing of the valve E, as above described, the weight T is the heavier, and will lift it out of the barrel.

One man can easily attend to six of these instruments when at work, and thus accomplish the work of six men operating in the old way. An engineer with this instrument can set it in operation and then go about his business, oiling his engine, &c. When the tank is filled the water will be shut off, and the instrument withdrawn from the tank. It may be used about stores in filling casks, bottles, jugs, &c., and effect in many cases a great saving of labor.

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

1. The combination of the tubes A and B jointed at D with the vertical tubes E and G, the valve E', valve-rod *e*, handle F, rod *g*, stop H, spring I, and trigger P, substantially as and for the purpose specified.

2. The combination of the float K, rod L, lever M, pitman N, lever O, trigger P, cord R, and weight T, substantially as and for the purpose specified.

To the above specification of my improvement I have signed my hand this

day of May, 1867.

W. S. PAYNE.

Witnesses:

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