

E. UHRICH.
Siphon.

No. 201,134.

Patented March 12, 1878.

FIG. 1.

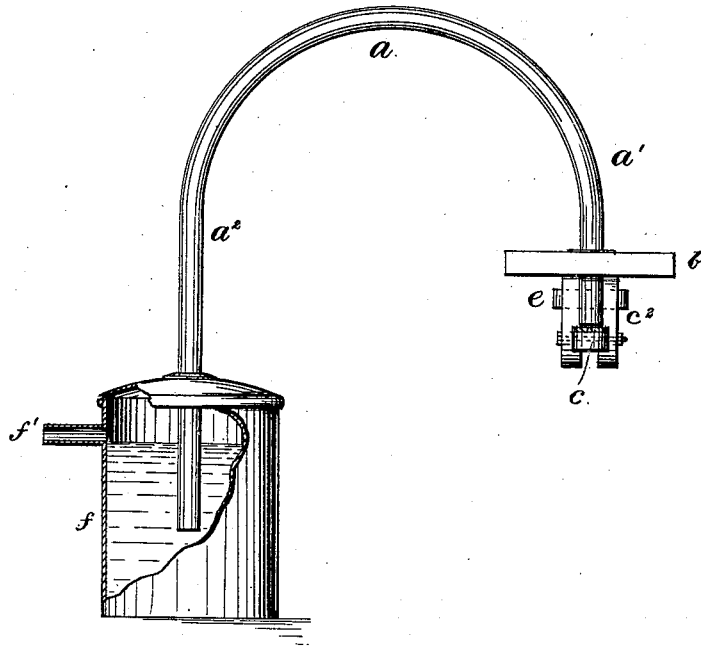


FIG. 2.

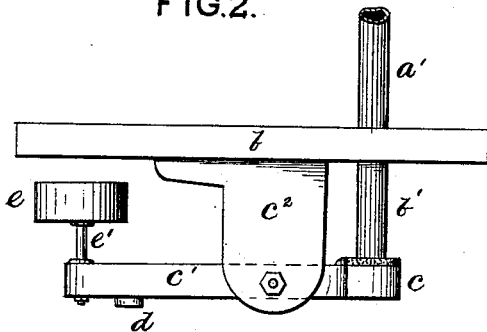
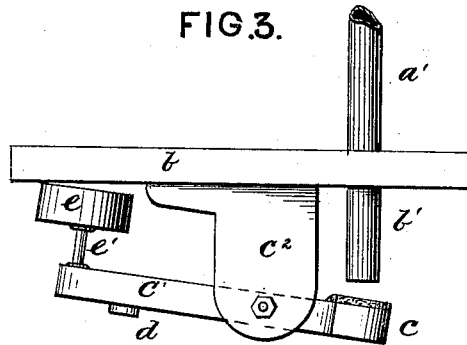


FIG. 3.



WITNESSES

Saml. R. Turner
C. M. Sites

INVENTOR

Elias Uhrich

By R. E. & A. Lacey
ATTORNEYS

UNITED STATES PATENT OFFICE.

ELIAS UHRICH, OF UHRICKSVILLE, OHIO.

IMPROVEMENT IN SIPHONS.

Specification forming part of Letters Patent No. 201,134, dated March 12, 1878; application filed January 23, 1878.

To all whom it may concern:

Be it known that I, ELIAS UHRICH, of Uhricksville, in the county of Tuscarawas and State of Ohio, have invented certain new and useful Improvements in Siphons; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference thereon, which form a part of this specification.

My invention has for its object to furnish a siphon which will be simple in construction, and which will be automatically opened and closed by means of a valve pivoted to a flange attached to the longer arm, and provided with a float, all arranged and adapted for the purposes hereinafter set forth.

In the drawings, Figure 1 is a side elevation of a siphon constructed according to my invention. Fig. 2 is a side view of the float and valve, with the latter closed on the mouth of the inlet-arm; and Fig. 3 shows the float elevated and the valve opened.

a is the siphon-tube, bent in ordinary form, so as to provide the short arm a^1 and the longer arm a^2 , as shown. Near to the open end of the shorter arm a^1 I attach a suitable flange or support, b , which extends outward a sufficient distance to afford facilities for attaching the valve c . The end b^1 of the siphon-tube projects below this flange, as shown. The valve c is provided with an arm, c^1 , which is pivoted to a lug, c^2 , affixed on the under side of the flange b . The lug c^2 is made long enough so that when the valve c is on the end of the siphon the arm c^1 will rest in a horizontal position, as shown in Fig. 2. The arm c^1 is pivoted eccentrically, so that the valve c , which is placed on the shorter end, will be held against the end of the tube by the greater weight of the longer end, except as otherwise hereinafter explained. On the longer end may be attached a weight, d , if desired, in order to make it act with greater promptness. e is a float or buoy, made of cork or other light material, and attached by a stem or sup-

port, e^1 , to the outer end; and on the upper side of the longer part of the arm c^1 it is so attached that when the arm c^1 is in a horizontal position, as shown in Fig. 2, it will be above the plane of the mouth of the arm a^1 of the siphon a . f is a reservoir, and is designed to hold water, in which the outlet end of the siphon may be kept constantly immersed, as shown; and it has an outlet, f' , from which the water flows when the siphon is in operation.

The operation of this device will be readily understood. The siphon is filled by any ordinary means, and the open end of the shorter arm placed in the water that is to be drawn off. The water, acting on the float e , will raise it and lift the valve c off the end of the pipe, as shown in Fig. 3. When the water has been lowered near to the end of the pipe the float will fall with the water till the valve will rest firmly against and close the tube, as shown in Fig. 2, and stop the flow. When the water in the tank rises so as to lift the float the valve will be opened, and the flow of water through the siphon will immediately commence.

I am aware of the existence of the patent to A. M. Ramey, January 21, 1877, and I do not claim the invention set forth in his specification; but

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

In combination with the siphon a , the rocking bar c^1 , pivoted intermediately between its ends to the lug c^2 , and having on one end the valve c and on its opposite end the float e , supported on the stem or arm e^1 above the plane of the mouth of the inlet-arm a^1 of said siphon, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ELIAS UHRICH.

Witnesses:

P. B. TURPIN,
WM. J. OSGOOD.