

J. E. WILSON.

Apparatus for Defecating Liquids.

No. 35,645.

Patented June 17, 1862.

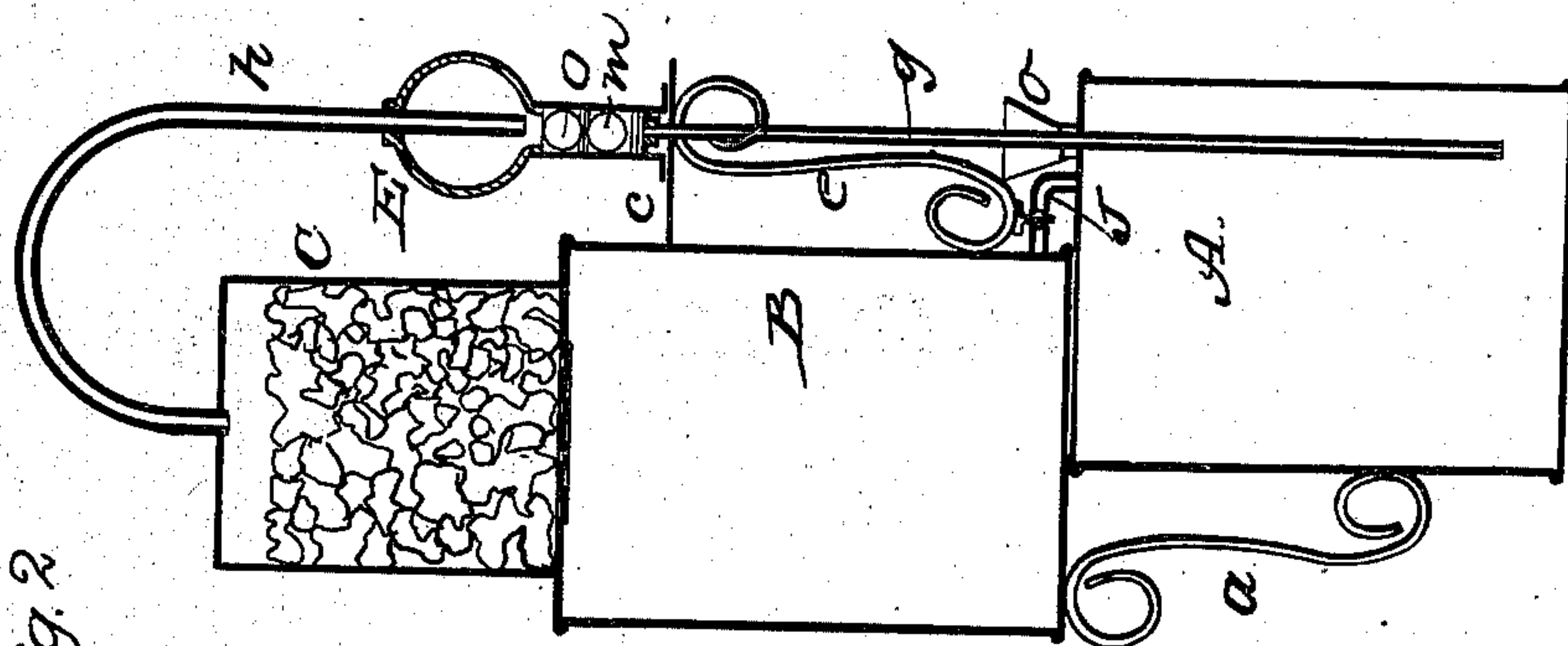


Fig. 2

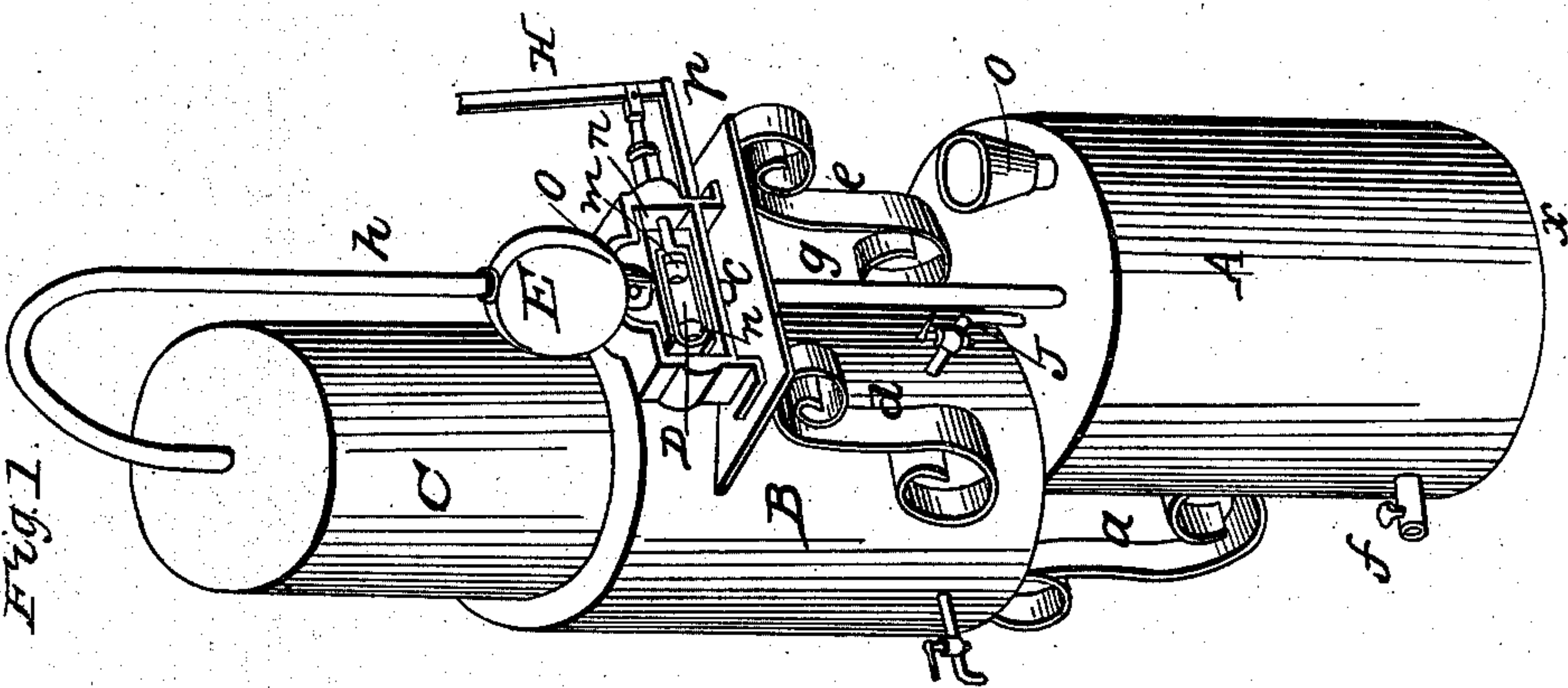


Fig. 1

WITNESSES

*James H. Andley*  
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INVENTOR

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# UNITED STATES PATENT OFFICE.

JOHN E. WILSON, OF BALTIMORE, MARYLAND.

## IMPROVEMENT IN APPARATUS FOR DEFECATING LIQUIDS.

Specification forming part of Letters Patent No. 35,645, dated June 17, 1862.

*To all whom it may concern:*

Be it known that I, JOHN E. WILSON, of Baltimore city, in the county of Baltimore and State of Maryland, have invented a new and Improved Apparatus for Defecating or Cleansing Liquids from all Impurities, and styled by me a "Pancatharticon;" and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of my improved apparatus, with the pump shown in section. Fig. 2 is a vertical central section of the same, taken in the line *x x* of Fig. 1.

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

The object of this invention is to obtain an apparatus for defecating or cleansing hot and cold liquids from all impurities; and it consists in a certain construction of apparatus in which is combined a pump whereby the liquid may be impelled or forced through a suitable filtering medium in a continuous circuit without coming in contact with the external air at any time during the operation, as and for the purpose hereinafter to be explained.

To enable others skilled in the art to fully understand and use my invention, I will proceed to describe it.

A B C represent three tanks or vessels, which may be constructed of metal or wood, and of any desired size, in the usual manner. These tanks are arranged one upon another, the two upper ones, B C, forming, respectively, the receiver and filter, being concentric with each other and resting partly on the top of the lower tank, A, which is the reservoir, and partly on brackets *a b*, projecting from the back side of said reservoir. On the front side of the receiver, and projecting outwardly therefrom, is a shelf, *c*, supported at its outer edge on brackets *d e*, which also project from the receiver; or said shelf may be supported by legs resting on the top of the reservoir. This shelf forms a support for a force-pump, which is employed for raising

and forcing the liquid through the filtering medium, and which will be described hereinafter. The liquid to be defecated or filtered is introduced into the reservoir through a faucet, *f*, placed near the bottom thereof. When it is desired to introduce a small quantity of liquid into the reservoir, it may be poured through the funnel *o*, which may be provided with a spigot or any other suitable device, to exclude the external air from the reservoir. The upper tank or vessel, C, is intended to be filled with charcoal, wool, paper, or any other substance or material possessing defecating qualities.

*j* is the conducting-faucet, secured in the front side of the receiver B, near the bottom, and arranged so as to discharge into the reservoir A through the top, forming an airtight communication between the reservoir and receiver. The liquid to be filtered is drawn from the reservoir by means of a pump up through the suction-pipe *g*, and forced through the discharge-pipe *h* into and through the filtering medium contained in the tank C, the filtrate discharging into the receiver. After being passed through the circuit of the apparatus a sufficient number of times, the conducting-faucet is closed, when the filtrate may be drawn off as it is desired for use through a faucet, *i*.

The pump which I have found to answer a good purpose, and which I have shown in the accompanying drawings; is one for which Letters Patent were issued to Wm. M. Henderson, October 4, 1859; and it consists, essentially, of plunger D, suction-valves *m m'*, water-way *n*, discharge-valve O, air-chamber E, suction-pipe *g*, and discharge-pipe *h*. Motion is imparted to the plunger through the medium of a hand-lever, H, which is fulcrumed at its lower end in the end of a rod, *p*, and connected with the plunger-rod *q* by a pivot. A pump of this make may be used, or, if preferred, any other having a double action.

I wish it to be distinctly understood that I do not claim any of the parts above described separately considered or irrespective of their particular arrangement; but,



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

The combination of the reservoir A, receiver B, and filter C with the suction and discharge pipes *g h*, force-pump, and conducting-faucet *j*, all arranged and operating in the manner explained to defecate or cleanse

hot or cold liquids by forcing them in a continuous circuit without contact with the external air.

JOHN E. WILSON.

Witnesses:

LEANDER WARREN,

T. MEANS.