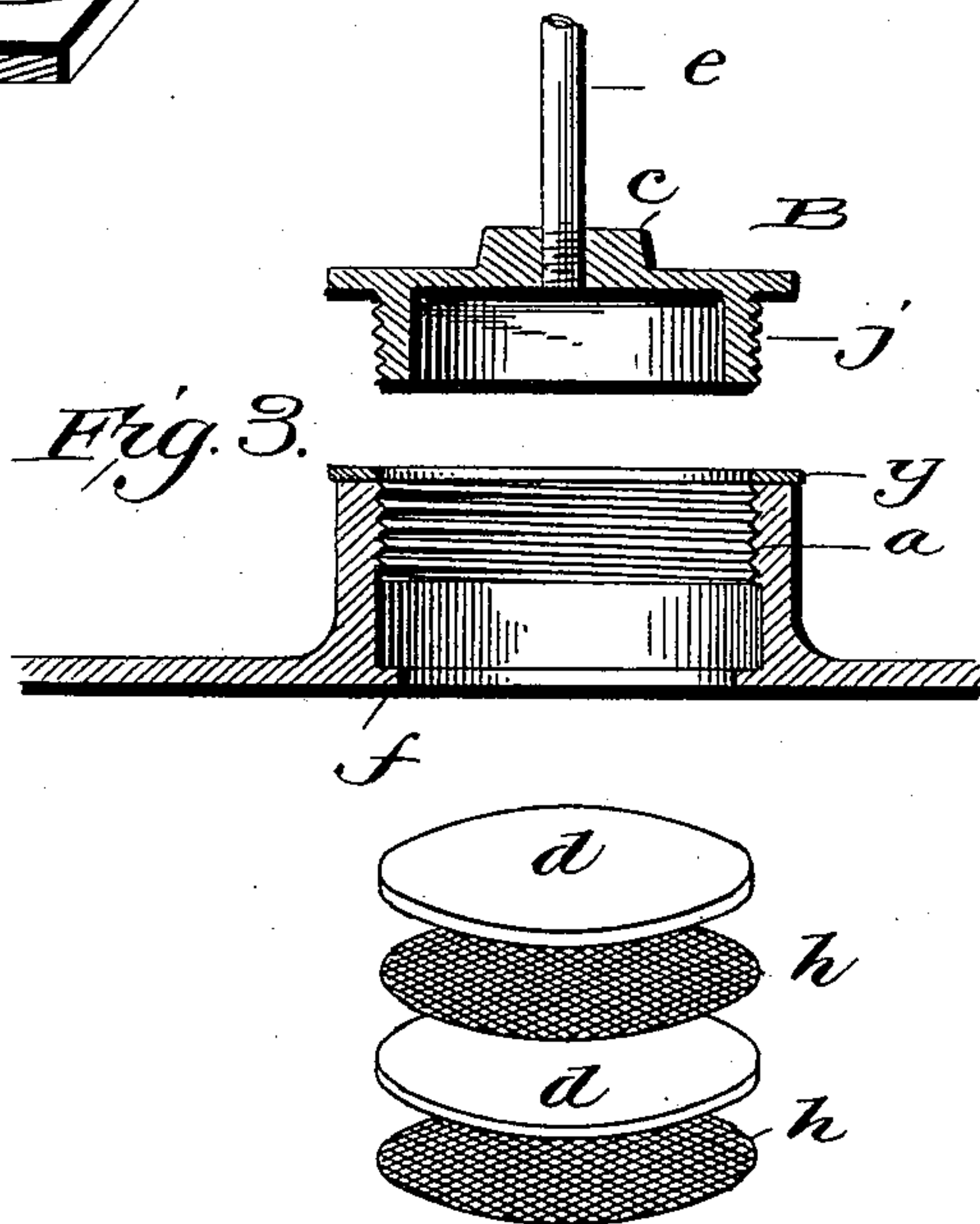
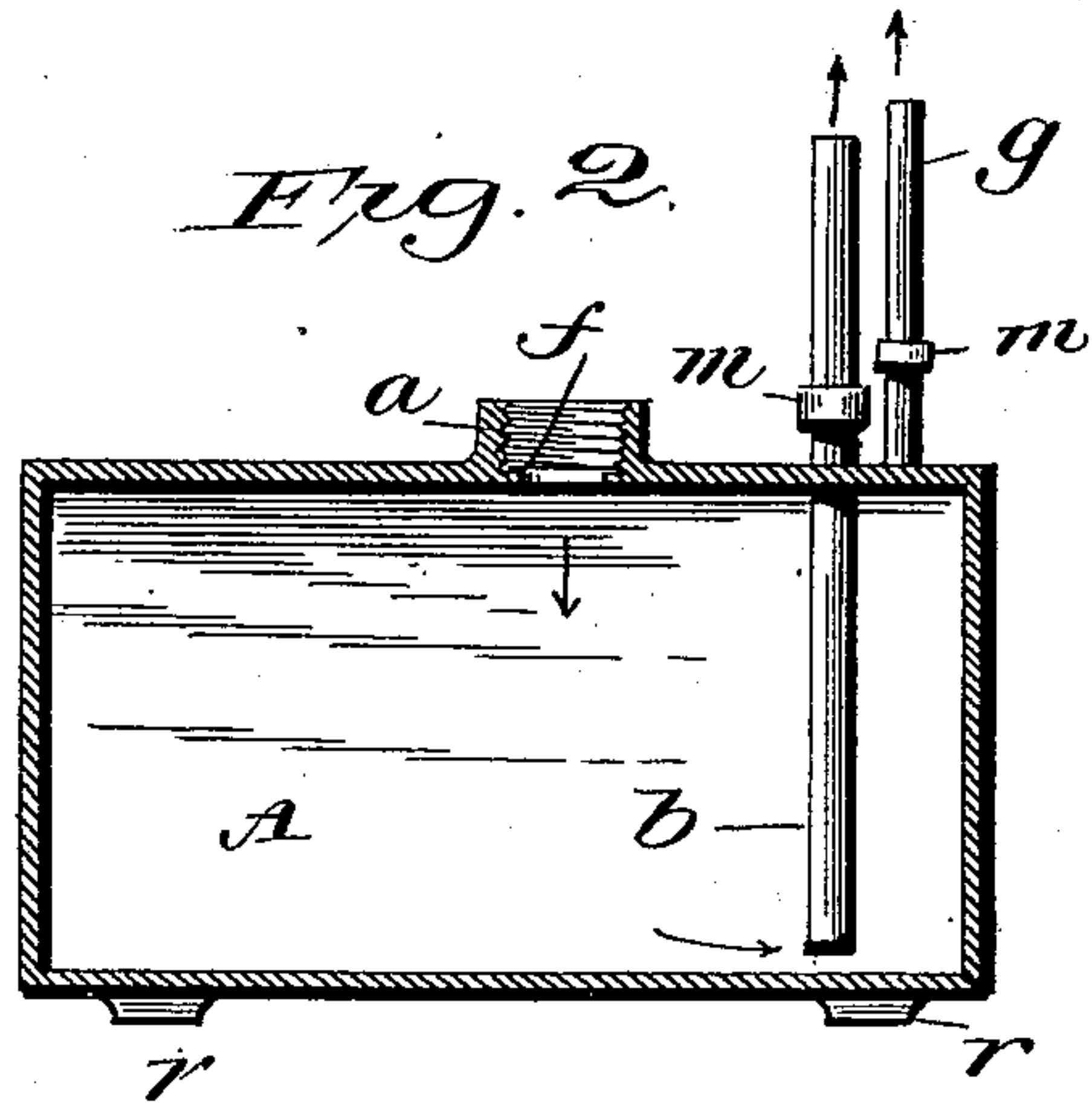
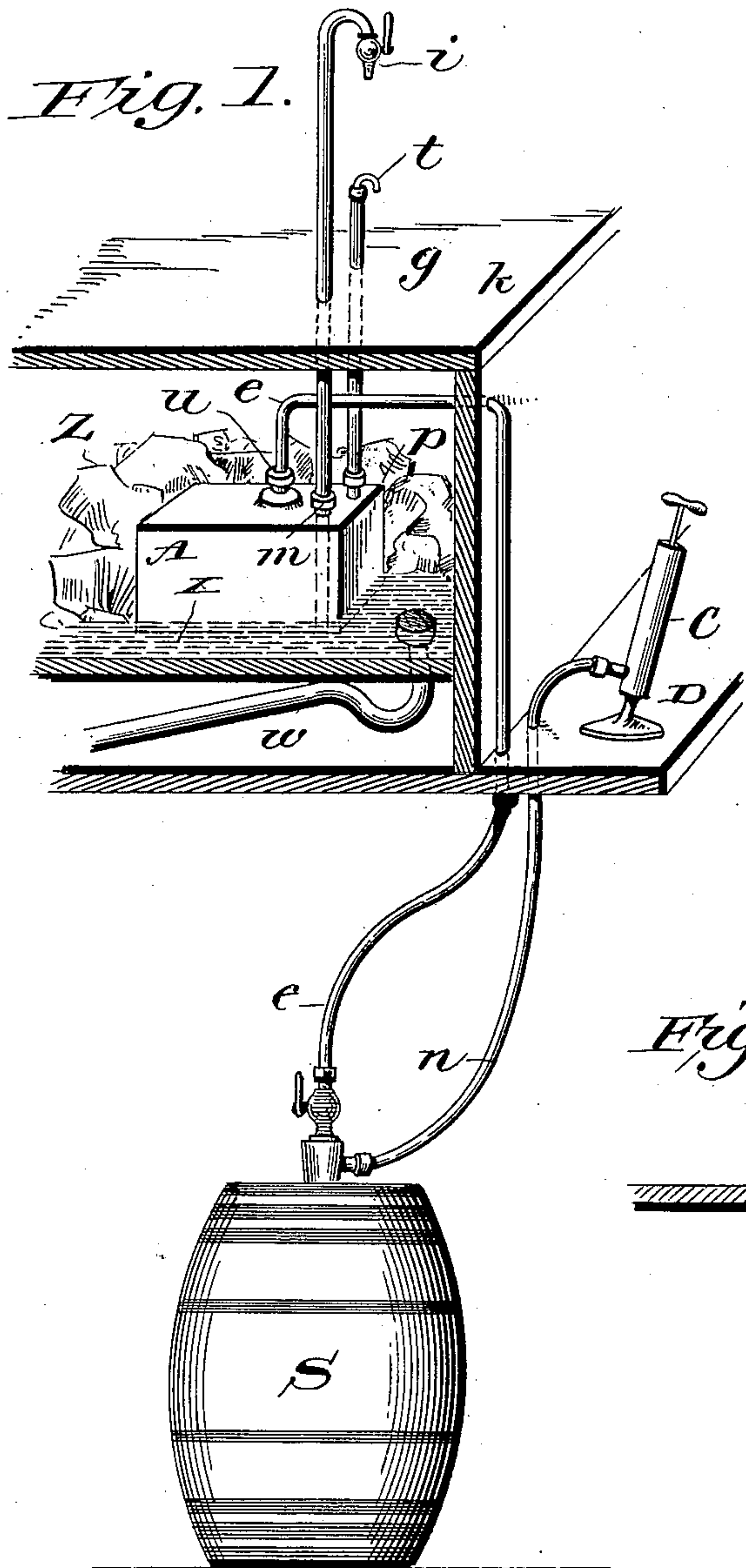


(No Model.)

F. OAKLEY.  
LIQUID COOLER.

No. 606,074.

Patented June 21, 1898.



Witnesses

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Inventor



# UNITED STATES PATENT OFFICE.

FRANCIS OAKLEY, OF NEWPORT, RHODE ISLAND.

## LIQUID-COOLER.

SPECIFICATION forming part of Letters Patent No. 606,074, dated June 21, 1898.

Application filed July 27, 1896. Serial No. 600,643. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS OAKLEY, a citizen of the United States, residing in Newport, in the county of Newport and State of Rhode Island, have invented certain new and useful Improvements in Coolers; and I do hereby declare that the following is a full, clear, and exact description of my invention.

My invention relates to an improvement in coolers used for the purpose of cooling beer, ale, water, or other liquids as they pass from the barrel or other receptacle through the pipe to the faucet.

The object of my invention is to provide a means of cooling and filtering the liquids as below set forth, reference being had to the drawings hereto annexed.

Figure 1 is a perspective view of a cooler and attachments, with parts broken away. Fig. 2 is a vertical sectional view through the cooling-box; and Fig. 3 is an enlarged detail view of the filters, showing same removed from the receptacle designed to hold same, said view showing the screen and filter holders in vertical section.

In the usual manner of drawing beer, ale, and other liquids an air-pump or some other means is employed for the purpose of forcing the liquid through the faucet, and to more particularly illustrate my cooler A in the drawings I employ an air-pipe *n*, leading from pump *c* to barrel *S*.

In carrying out my improvement I do not, as heretofore, cool the liquid by a series of coils of pipe usually leading the liquid from the barrel through the said series of coils packed in ice to the faucet for the reason that the deposit or sediment from the liquid collects in the coils of pipe, thereby making the liquid unhealthful and offensive within a short period of time. I obviate this difficulty by my cooler A acting as a settling-tank and employ cover B to attach to neck *a* of my cooler by means of thread *j* or other suitable detachable fastening, and to more particularly illustrate my cooler (see Fig. 2) I employ thread *j* to fit neck *a*. It being necessary to make an air-tight connection, I use washer *y*, of rubber or some other resilient material, and to clean my cooler I disconnect supply-

pipe *e* (see Fig. 3) at union *u*. I then detach cover B from neck *a* by means of nut *c*. I then remove strainers *h h* and filters *d d*, and the hand can then be inserted through neck *a* and the inside of cooler can be easily and quickly cleaned. I also provide a regulating-pipe *g*, with a coupling *m*, (see Fig. 1,) to connect with petcock *t*, (see Fig. 3,) that the gases generated in cooler A may be released by means of petcock *t* wholly or partially at will, thereby providing a means of drawing the liquid from faucet *i* in a lively or still manner, as necessity requires. I further employ filter *d d*, (see Fig. 2,) made of felt or some other porous material, for the purpose of filtering the liquid as it enters the cooler, and in combination therewith I employ wire screen *h h* or some other percolating material for the purpose of keeping the felt *d d* in a flat position on seat *f*. I further employ outlet-pipe *b*, with coupling *m*, (see Fig. 1,) for the purpose of drawing the cold liquid from or near the bottom of my cooler A, pipe *b* connecting with faucet *i* (see Fig. 3) by coupling *m*. I also provide feet *r r* to the bottom of my cooler that the bottom of my cooler may be elevated from the floor of ice-box *p*, (see Fig. 3), the cooler thereby receiving the cold radiation of water *x*, coming from ice *z*, the waste water from ice making its exit from box *p* by means of waste-pipe *w*.

I claim—

In a cooler, the combination with the box A, mounted on suitable legs within an ice-box, the pipes *b* and *g* communicating with the interior of said box, the internally-threaded neck portion of the box and shoulder *f*, the cap B with integral nut extension *c* which is centrally apertured, the pipe *e* having screw-threaded connection with the said cap in said aperture, of the alternately-disposed screens and filters *h* and *d* respectively, held within the said neck portions and between the shoulder *f* and cap B, and the pump and connection with the supply-tank and box A, all substantially as shown and described.

FRANCIS OAKLEY.

Witnesses:

CLARENCE A. HAMMETT,  
WILLIAM C. SCOTT.