

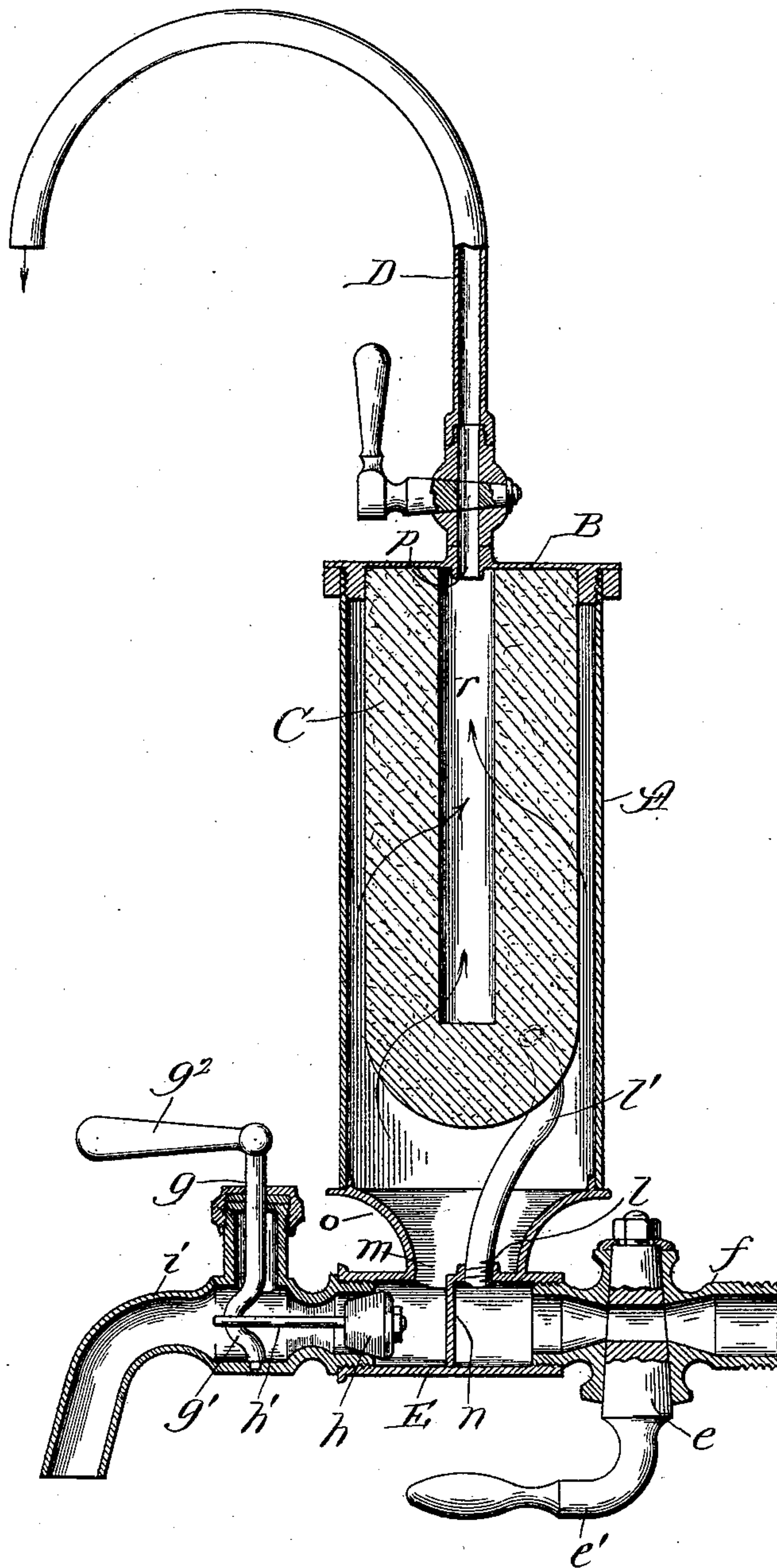
No. 606,804.

Patented July 5, 1898.

O. EASTMAN.  
WATER FILTER.

(Application filed Sept. 1, 1897.)

(No Model.)



Witnesses:

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*Ben Simple Webster*

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*Olaf Eastman*  
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# UNITED STATES PATENT OFFICE.

OLAF EASTMAN, OF CHICAGO, ILLINOIS.

## WATER-FILTER.

SPECIFICATION forming part of Letters Patent No. 606,804, dated July 5, 1898.

Application filed September 1, 1897. Serial No. 650,258. (No model.)

*To all whom it may concern:*

Be it known that I, OLAF EASTMAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Water-Filters, of which the following is a specification.

My invention relates to an improvement in the kind of water-filter which is adapted to be connected with the supply of water to be run through it for filtration to render it fit to drink, but through which water may be taken for purposes other than drinking without first filtering it.

The accompanying drawing shows my improved filter by a view in vertical sectional elevation.

A is the filter-chamber of the cylindrical shape illustrated or of any other desired shape and which may be formed of sheet metal or of other suitable material. From the top or cover B of the chamber (shown as screwed into the latter) there is suspended the filtering medium C, preferably a porous filtering-stone containing a central passage or well *r*, leading to an opening *p* in the cover, from which there extends a suitable faucet D. The base of the chamber A is shown as a hollow neck *o*, terminating in a tube E, which extends at a right angle to the chamber and contains an upright partition *n*, flanking which are openings *m* and *l*, through which the tube communicates with the filter-chamber and which communicate with each other through the latter to enable water entering the tube at one side of the partition *n* to enter the tube at the opposite side of the partition. A pipe *l'* leads from the opening *l* up into the filter-chamber to open against the filtering-stone C therein near its lower end, the pipe being slightly curved toward its upper end about the stone, as indicated, to tend to give to the water which is passed through it under pressure a swirling motion about the stone. The tube E, which thus carries the filter-chamber, forms the body of a faucet, the nozzle *i* of which screws into the forward end of the tube and contains an inwardly-opening valve *h*, seating against the inner end of the nozzle and connected with a stem *h'*, engaging with the

crank *g'* in a spindle *g*, which carries at its outer end the operating-handle *g''*. My invention is not, however, limited to this particular form of valve device. The rear end of the tube E has coupled with it a nipple *f*, containing a valve *e*, shown as an ordinary tapering plug-valve provided with an operating-handle *e'*, and the nipple is adapted to screw into the end of a water-supply pipe, such as the pipe through which water from a water-supply system is led into a room, as a kitchen. Thus my improved filter may be supported on the water-pipe referred to and is intended so to be.

With the valve *e* open (which is its normal condition) and the valve *h* closed on opening the valve of the faucet D the pressure of water which enters the filtering-chamber through the tube E and pipe *l'* will cause it to pass through the filtering medium C into the well *r*, whence it will flow out filtered through the faucet D, which may be termed the "drinking-faucet." By closing the faucet D and opening the valve *h* the water flowing into the chamber A will swirl about the stone C, thereby cleansing it, and from the filtering-chamber this water runs out by way of the opening *m* through the nozzle *i*, whence water is to be taken for other purposes than drinking, as for cooking and washing. The valve *e* is provided to afford by closing it means for shutting off the water-supply when it is desired to open the filter, as for taking out or renewing the filtering medium.

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

In a self-cleaning filter having a chamber A containing a filtering medium C, the combination with said chamber of a faucet device for unfiltered water comprising a tube E containing a partition *n* flanked by openings *m*, *l*, a valve *h* at one side of said partition for controlling the overflow of unfiltered water and a valve *e* at the opposite side of said partition for controlling the supply of water to said chamber, substantially as described.

OLAF EASTMAN.

In presence of—

R. T. SPENCER,  
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