

D. & E. Moore,

Filter.

No. 92,988.

Patented July 27, 1869.

Fig. 1

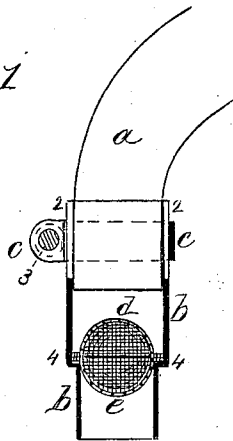
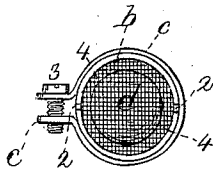


Fig. 2



Witnesses,

Geo. S. Walker

Chas. H. Smith

D. & E. Moore
Edmund Moore

United States Patent Office.

DANIEL MOORE AND EDWIN MOORE, OF BROOKLYN, NEW YORK.

Letters Patent No. 92,988, dated July 27, 1869.

IMPROVEMENT IN FILTERING-TUBES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that we, DANIEL MOORE and EDWIN MOORE, of Brooklyn, in the county of Kings, and State of New York, have invented, made, and applied to use a certain new and useful Improvement in Filters; and we do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making a part of this specification, wherein—

Figure 1 is a vertical section of said filter, as in place for use, and

Figure 2 is a plan of the same.

Similar marks of reference denote the same parts.

Filters have been made to set over the end of a pipe or faucet, and held there against the force of the water, either by a screw-thread on the parts that come together or by the friction of the surfaces in contact.

Our filter is intended to remove animalcules and small substances that may be in the water, and, at the same time, render the flow of water more regular as it is delivered, and prevent the spattering and splashing usual when water, under pressure, is allowed to issue from a cock or faucet.

Our invention consists in a tubular case for the filter, split longitudinally near the end, so as to form segmental springs, to set upon the cock or faucet, in combination with a screw-clamping band, whereby the filter can be securely attached, without injury to the cock or faucet, and without risk of the filter falling off when in use, and breaking the pitcher or vessel receiving the water.

We also make the filtering-diaphragm of two semi-globular strainers of perforated metal or gauze, in order that the rush of water may be so checked and diverted

from its course that the water will not be splashed about as it runs out, but will be delivered from the filter in a steady, solid column.

In the drawing, the red lines at *a* represent a portion of a faucet or bib.

b is the case for the filter, formed with longitudinal incisions *z* near one end, so that the segmental springs thus formed may set around the end of the bib, and be clamped thereto by the band *c* and set-screw, *3*.

A shoulder is made in the tube *b* at *4*, upon which rest the flanges of the perforated or gauze diaphragms *d* and *e*.

These diaphragms are made of a dome-form, standing in opposite positions, so that the rush of water in all directions through the diaphragm *d* will be equalized in the globular space between the two diaphragms, and hence the water will pass off with regularity as it runs through the perforations of the diaphragm *e*, at the same time any animalcules are detained, or other impurities, and the diaphragms can be taken out and washed whenever desired.

What we claim, and desire to secure by Letters Patent, is—

The tubular case *b*, formed with segmental springs, in combination with the clamping-band *c*, and filtering-diaphragm *d e*, as and for the purposes set forth.

In witness whereof, we have hereunto set our signatures, this 30th day of November, A. D. 1868.

DANL. MOORE.
EDWIN MOORE.

Witnesses:

CHAS. H. SMITH,
GEO. T. PINCKNEY.