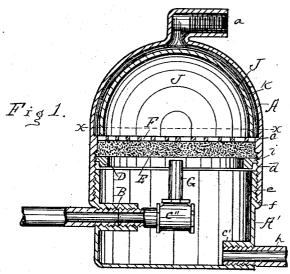
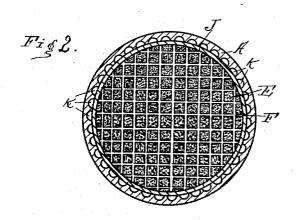
(No Model.)

J. MULLIGAN. WATER FILTER.

No. 548,381.

Patented Oct. 22, 1895.





Lester L. Allen. Aftionini

John Muligan,
INVENTOR

BY R. John Cart
ATTORNEY.

UNITED STATES PATENT OFFICE.

JOHN MULLIGAN, OF DAYTON, OHIO.

WATER-FILTER.

SPECIFICATION forming part of Letters Patent No. 548,381, dated October 22, 1895.

Application filed April 25, 1895. Serial No. 547,202. (No model.)

To all whom it may concern:

Beit known that I, John Mulligan, of Dayton, county of Montgomery, State of Ohio, have invented a new and useful Improvement 5 in Water-Filters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in water-filters; and it consists of the novel fea-15 tures hereinafter specified, and pointed out in

the claim.

The object of the invention is to provide a simple and efficient filter and one that can be had for a nominal sum.

The annexed drawings illustrate the inven-

tion and reference is made thereto.

Figure 1 is a vertical longitudinal section through the middle of the filter. Fig. 2 is a cross-section on the line x x of Fig. 1.

In the specification similar letters of refer-

ence indicate the same parts.

A designates the upper section of the case, which is dome-shaped and has a nozzle or tubular extension projecting at right angles, as at a, to which a pipe may be attached to conduct the filtered water to the faucet. (Not shown.) The lower circular edge of the upper section has a shoulder c and internal screwthreads d, with which the exterior screw-35 threads e on the lower section A' engage, and the upper section when so united abuts with a circular shoulder f on the outside of the section A'.

B and c' designate, respectively, interior 40 nozzles, the former of which receives the supply-pipe, the inner end of which has connected thereto a union c'', to which is attached an upwardly-projecting pipe G. The nozzle c'

receives a pipe h, through which the filter may be drained; or unfiltered water may be 45 passed therethrough. About midway in the case I locate a washer D, that abuts with the upper inner edge of the lower section of the case and has a screw-threaded engagement with the upper section at i. E designates fil- 50 tering material-such, for example, as asbestos-that is mounted above this washer and through which the water that enters through the pipe G is filtered.

The interior surface of the upper section A 55 has a series of corrugations k, against which an earthenware dome J is placed, through which the water is filtered. The dome J, when in position, leaves a series of longitudinal chambers between it and the case A, that 60

tend to preserve the earthenware.

F designates a perforated metallic plate (or it may be a wire grating) that is placed above the asbestos to maintain the latter in a proper position. The filter may be used without this 65 asbestos and plate F, if desired, and the filtering be done through the earthenware before referred to.

Having described my invention, I claim as

The combination with a casing constructed in two sections, the upper section having corrugations on its interior surface, of an earthenware dome inclosed in said upper section forming chambers, a sheet of asbestos, and a 75 metallic plate upon which said earthenware dome rests, a washer engaging with said case upon which the asbestos is supported, substantially as described.

In testimony whereof I have hereunto set 80 my hand this 4th day of April, 1895.

JOHN MULLIGAN.

Witnesses: R. J. MCCARTY, LESTER L. ALLEN.