E. E. BUSCHER.

FILTER.

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1,190,511.

Patented July 11, 1916.

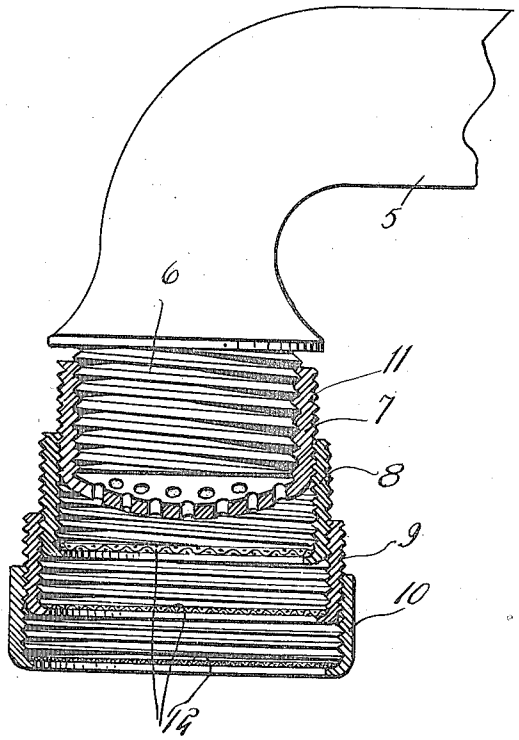


FIG. 1.

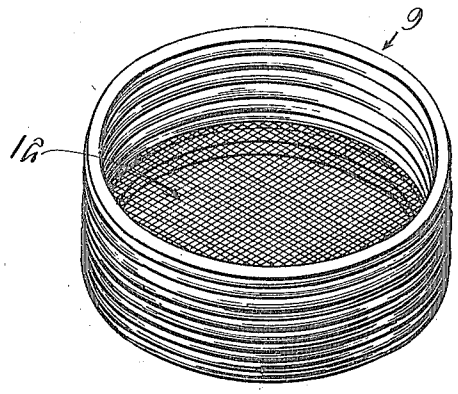


FIG. 2.

Witnesses.
J. C. Simpson.
A. R. Galt.

Inventor
E. E. Buscher,
By Thomas & Daniels
Attorneys.

UNITED STATES PATENT OFFICE.

EDNA E. BUSCHER, OF NEW HARMONY, INDIANA.

FILTER.

1,190,511. Specification of Letters Patent. Patented July 11, 1916.

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To all whom it may concern:

Be it known that I, EDNA E. BUSCHER, a citizen of the United States, residing at New Harmony, in the county of Posey, State of Indiana, have invented certain new and useful Improvements in Filters; and I do hereby 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.

This invention relates to filters, and is adapted particularly for use in connection with hydrants, spigots and other distributing outlets of a water supply system.

The primary object of the invention is to provide a simple and efficient device capable of ready application to a faucet, and which will thoroughly clean the fluid passing through the faucet.

A further object of the invention is to provide a filter of the class described which is composed of elements capable of being readily separated for cleansing purposes, which is of inexpensive construction, which is capable of being readily assembled, and which will prove thoroughly efficient in the attainment of the ends for which it is designed.

With these objects in view, together with others which will appear as the description proceeds, the invention resides in the novel combination and arrangement of parts, all as will be described more fully hereinafter, illustrated in the drawings and particularly pointed out in the claims.

The invention will be best understood by reference to the accompanying drawings, wherein:

Figure 1, is a vertical sectional view taken through a filter constructed in accordance with my invention, and illustrating the application of the same to a faucet, and Fig. 2, is a detail perspective view of one of the filter cups.

Referring now more particularly to the drawings 5 indicates a conventional form of spigot or faucet, the same being provided with a threaded nozzle 6.

The filter which I employ in attaining the desired ends comprises a plurality of strainer members, all being adapted to nest within each other, and to be secured in its entirety over the discharge end of the faucet to thoroughly cleanse the water passing therefrom. In the present instance I employ four of these separable elements, the same being indicated at 7, 8, 9 and 10 respectively. The strainer member 7 is in the form of a cap, having an annular interiorly and exteriorly threaded flange 11 extending from its head, the interior threads of the said flange being adapted to engage with the threads 6 of the said faucet. The head of this cap member is provided with apertures through which the fluid may readily pass.

The members 8, 9 and 10 each comprise annular interiorly and exteriorly threaded rings, each ring being provided at one end with a head formed of wire mesh 12. It is thus seen that a plurality of caps, each having a foraminous head or bottom is provided. The member 8 is of slightly larger diameter than the cap 7 in order that the same may nest upon and thread with the exterior threads of the said member 7. Each of the members 9 and 10 are of slightly increasing diameters, whereby the same may be engaged over each other and over the member 8 to snugly nest each with the other. When properly positioned, it is seen that the filter as an entirety presents four foraminous surfaces, the said surfaces being spaced a slight distance apart and through which water or other fluid may readily flow. The members 8, 9, and 10 are provided with filtering heads formed preferably of close wire mesh, the mesh of the member 10 being extremely fine, while that of the members 9 and 8 respectively are of a trifle coarser grade.

From this description it is apparent that the filter may be quickly and easily assembled upon a spigot or faucet, and when so assembled and attached, will serve as an efficient means for arresting and retaining impurities carried by the water in its flow from the supply system. When the filter needs cleaning, it is but necessary to unscrew the same from engagement with the faucet end, and the various filter members from each other, whereupon the same may be readily cleansed and replaced upon the faucet.

While I have herein shown and described a particular or preferred embodiment of the invention, I wish it to be understood that I need not confine myself to all the precise details of construction herein set forth by way of illustration as modification and variation

may be made without departing from the spirit of the invention or exceeding the scope of the claims.

What is claimed is:

1. In a device of the class described, a plurality of strainer members, an exteriorly and interiorly threaded flange on each of said members, the flange of each member being adapted to be engaged and inclosed by the flange of the next adjacent member, and a strainer in each of said members, substantially as described.

2. In a device of the class described, the combination with a threaded faucet, of a cap, an annular interiorly and exteriorly threaded flange extending from said cap and adapted to engage over the threads of said faucet, said cap being provided with openings, an interiorly and exteriorly threaded ring adapted to engage over and inclose said cap, and a wire gauze closing one end of said ring, substantially as described.

3. In a device of the class described, a cap, a head on said cap, an annular interiorly and exteriorly threaded flange on said cap, the head of said cap being provided with apertures, a plurality of interiorly and exteriorly threaded rings adapted to be nested each with the other and with said cap, and each ring being provided with a diaphragm of wire mesh, substantially as described.

In testimony whereof, I affix my signature, in the presence of two witnesses.

EDNA E. BUSCHER.

Witnesses:

C. P. WOLFE,

EARL T. EAGLESON.