(No Model.)

G. W. SHAWK.

HYDRANT FILTER.

No. 322,486. Patented July 21, 1885.

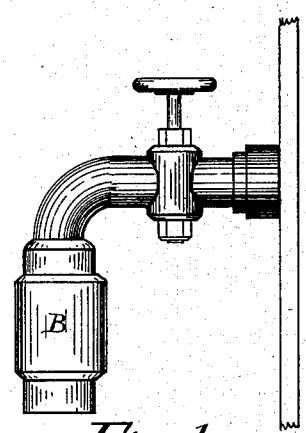


Fig. 1.

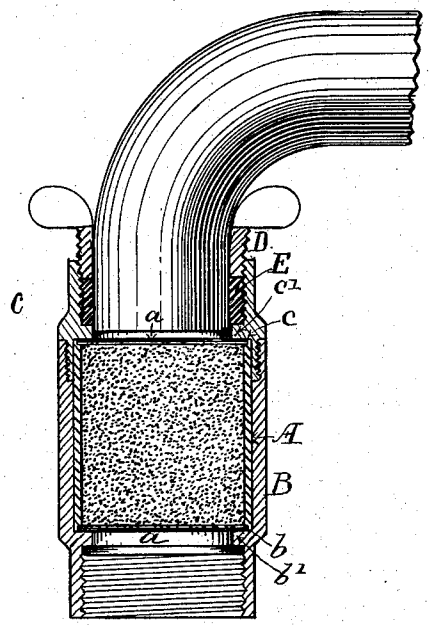


Fig. 3.

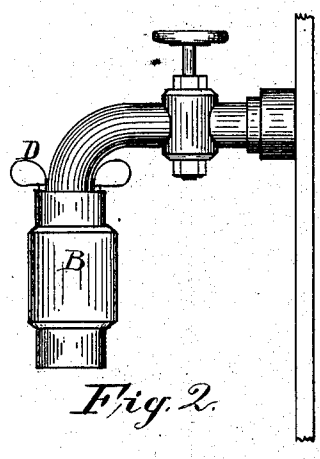


Fig. 2.

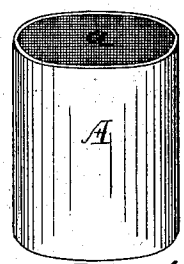


Fig. 4.

Witness.
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UNITED STATES PATENT OFFICE.

GEORGE W. SHAWK, OF CLEVELAND, OHIO.

HYDRANT-FILTER.

SPECIFICATION forming part of Letters Patent No. 322,486, dated July 21, 1885.

Application filed December 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. SHAWK, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Hydrant-Filters, of which the following is a specification.

This invention relates to hydrant-filters, and has for its object to provide an easily-adjusted, separable, and economical device to be attached to faucets for the purpose of filtering the water discharged therefrom.

The invention consists of a cylinder having foraminous ends or heads and containing a filtering material, said cylinder being inclosed in an outer cylinder or casing provided with means of attaching it to the discharge end of either smooth nozzles or screw-threaded nozzles of faucets, the object being to enable it to be readily removed for renewing. It may also be reversed end for end, so that any sediment which accumulates or lodges in or upon the upper head is readily carried off when the device is reversed. It may also be readily taken apart for cleansing, &c. Said device is constructed and operates as hereinafter described and claimed.

In the accompanying drawings, Figures 1 and 2 show two methods of attaching my device to faucets. Fig. 3 is a vertical section of my improved filter, showing interior construction and means of attaching it to a smooth-nozzled faucet. Fig. 4 is a detached view of the internal cylinder.

A is a cylinder having rabbets in the inner edges of its ends, in which are placed disks of wire cloth or gauze, *a*. Within this cylinder is contained the filtering material.

B is an outer cylinder or casing, into which said filtering-cylinder fits, resting at its lower end on a shoulder, *b*, below which said cylinder is slightly reduced in diameter, terminating in a short neck having its interior surface screw-threaded, and has an interior annular flange, *b'*. The other end of said cylinder B has an internal screw-threaded portion inward from the end.

C is an extension-piece, having outer screw-threaded surface to a shoulder, *c*, for screwing it into the cylinder B. Said extension C also terminates with a neck like that at the other end of the cylinder B, also having its interior surface screw-threaded, and is also provided with interior annular flange, *c'*.

D is a hollow thumb-nut working in the neck for compressing a rubber packing-ring, E, the purpose of which is to hug the nozzle of the faucet, which has no screw-threaded surface.

When attaching the device to a nozzle having a screw-thread, the nut and ring are not required.

Having described my invention, I claim—

The tubular part C, having its lower end externally screw-threaded and its upper part internally screw-threaded, in combination with case B, which engages with said lower external screw-threads, a cylindrical filter, A, located within said case and part C, a tubular nut, D, which engages with said upper screw-threads, and an annular packing, E, which is compressed by said nut to clamp part C to the pipe, substantially as set forth.

GEO. W. SHAWK.

Witnesses:

GEO. W. TIBBITTS,

E. W. LAIRD.