J. CORMENY.

STRAINER FOR FAUCETS.

APPLICATION FILED MAY 25, 1915.

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Fig. 1.

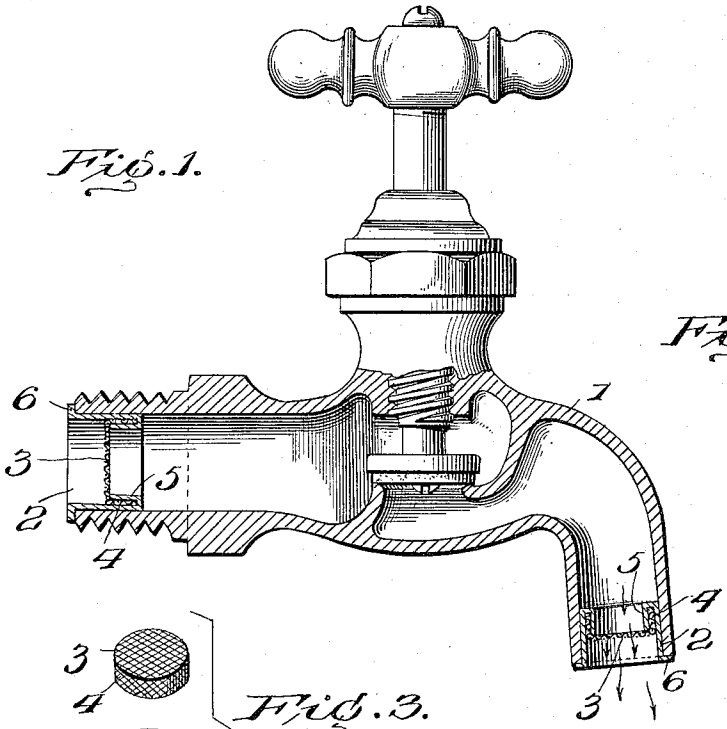
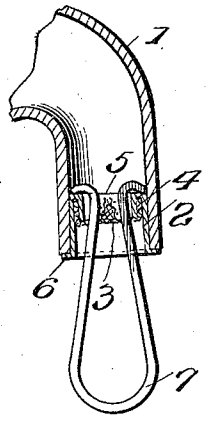


Fig. 2.



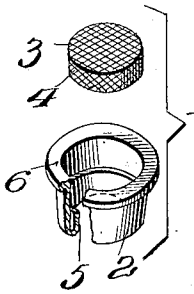


Fig. 3.

Fig. 4.

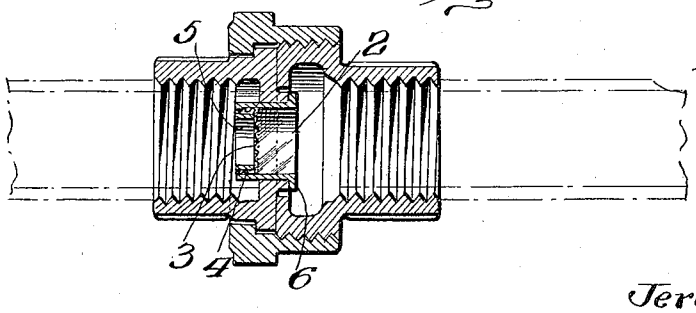
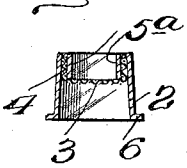


Fig. 5.



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STRAINER FOR FAUCETS.

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Application filed May 25, 1915. Serial No. 30,448.

To all whom it may concern:

Be it known that I, JEREMIAH CORMENY, a citizen of the United States, residing at York, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Strainers for Faucets, of which the following is a specification.

The invention aims to prevent the splutter and spurting of water at the outlet of a water fixture, such as a spigot, as well as to arrest particles of grit, sand and like impurities, and consists of a strainer which may be introduced in the nozzle, or the coupling end of a spigot, or like fixture, or which may be located in the service pipe at any convenient or determinate point.

The invention further consists of a strainer embodying a shell and a cup-shaped sieve, the latter being wholly disposed within the shell and made secure therein, either by recurving an end portion of the shell so as to confine the wall of the sieve, or by a retaining ring forced into the shell so as to clamp the wall of the sieve between the shell and ring.

With these and other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly claimed.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention as claimed may be resorted to when desired.

Referring to the drawings,—Figure 1 is a view of a spigot partly in elevation and partly in section showing a strainer fitted to the nozzle and the coupling end thereof; Fig. 2 is a sectional view of the nozzle of a spigot showing the manner of removing a worn strainer; Fig. 3 is a perspective view of the component parts comprising the strainer, such parts being separated; Fig. 4 is a sectional view of a coupling provided with a strainer of modified form embodying the invention; Fig. 5 is a sectional view of a further modified form of strainer.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings, by the same reference characters.

The numeral 1 designates a spigot or faucet of ordinary construction, the same having a strainer fitted to its nozzle and to its coupling end. It is to be understood that one or the other of the strainers may be omitted, or both used jointly, if desired.

The strainer consists of a shell 2 and a cup-shaped sieve 3. As indicated in the several views the sieve is located wholly within the shell and is secured therein by means of its outer wall or rim 4 which is confined between the inner wall of the shell 2 and a retaining element which may consist of a recurved end portion 5 of the shell or a ring 5^a, as indicated in the modification in Fig. 5. The shell 2 is preferably tapered slightly throughout its length so as to be retained within the fixture by means of a wedging action.

In the modification shown in Fig. 4, the body of the shell is of uniform diameter throughout its length and is provided at one end with an outer flange 6 which constitutes a stop to limit the movement of the strainer when placed in position. The shell may be formed in any manner and preferably consists of a light or thin metal tube which is cut into suitable lengths according to the required size of the strainer. By having the shell formed of light or thin tubing an end portion may be readily recurved to form the confining flange 5 which is clenched after the sieve is placed in position so as to confine or clamp the rim or wall of the sieve and hold the latter securely in place. The outer flange 6 serves to reinforce the shell, to form an extended surface to obtain a purchase upon when it is required to force the strainer into position and to act as a stop to limit the movement of the strainer when pressed home, as indicated in Fig. 4.

The sieve 3 may be of any material which usually consists of wire gauze but it is obvious that material of any nature that will admit of the passage of water may be employed. In this connection it is to be understood that the strainer may be utilized as a filter and in such use filtering material of any nature may be employed in the formation of the strainer. The primary object of the strainer is to remove such impurities from water, such as sand and grit and also to prevent the water flowing from

an outlet from spurting and spluttering and to cause the same to run in a quiet stream.

The strainer will be provided in various sizes according to the particular use and application and is adapted to be placed within a service pipe or fixture. In Fig. 1 the strainer is shown as fitted to the nozzle and to the coupling end of a spigot or faucet and in Fig. 4 the strainer is illustrated as disposed within a coupling. By constructing the shell of the strainer of exceedingly thin material a minimum amount of passage way is obstructed by the strainer when placed in position, and, moreover, a minimum resistance is offered to the flow of the water, hence the strainer when pressed home into place is not liable to be loosened and detached. When the strainer becomes unfit for further effective service by reason of the sieve giving way or becoming choked, the strainer may be removed and for this purpose a tool 7 is employed, as indicated in Fig. 2, the same being substantially of U-shape and having the extremities of its members bent outwardly in opposite directions to engage over the inner end of the shell to facilitate the withdrawal of the latter from the nozzle or other place provided with the strainer.

It is to be understood that the strainer may be removed in any manner and by an extracting device susceptible of such application.

Having thus described the invention, what is claimed as new is:—

A strainer comprising a shell having an outer flange at one end and its opposite end portion recurved, and a cup-shaped sieve arranged within the shell and having its rim or wall confined between the shell and the recurved end portion thereof.

In testimony whereof I affix my signature.

JEREMIAH CORMENY. [L. S.]

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."