

T. RICHARDSON.
STRAINER.

APPLICATION FILED SEPT. 14, 1907. RENEWED APR. 10, 1909.

938,274.

Patented Oct. 26, 1909.

FIG. 1.

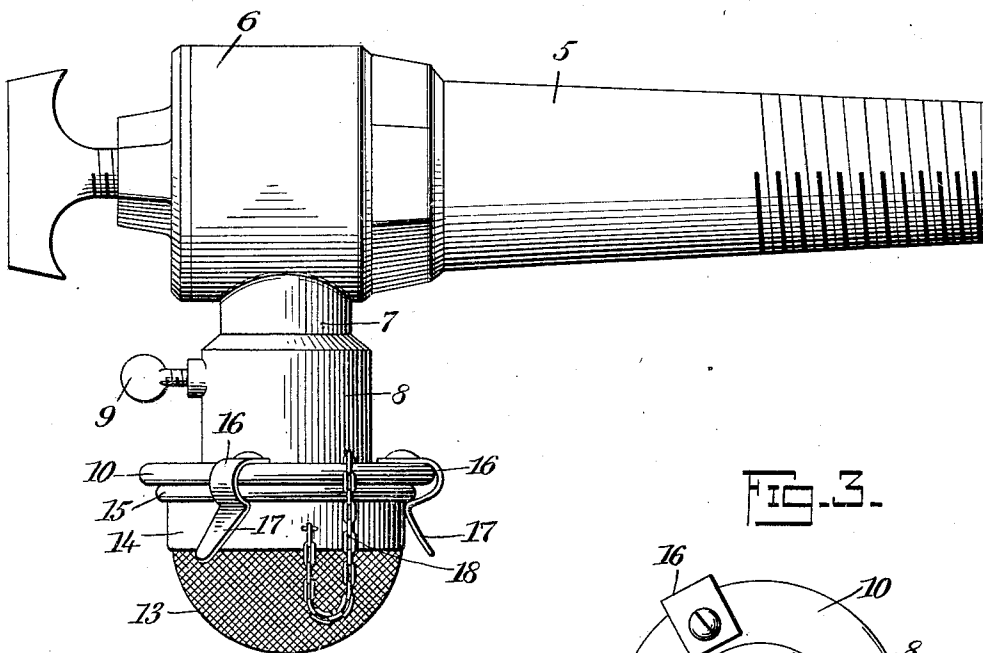


FIG. 3.

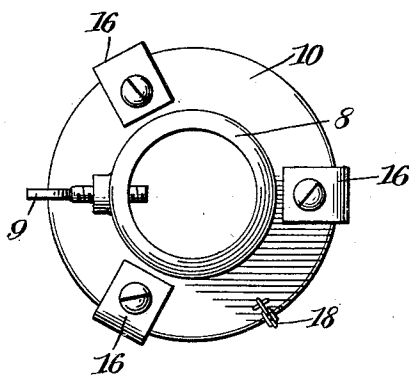


FIG. 2.

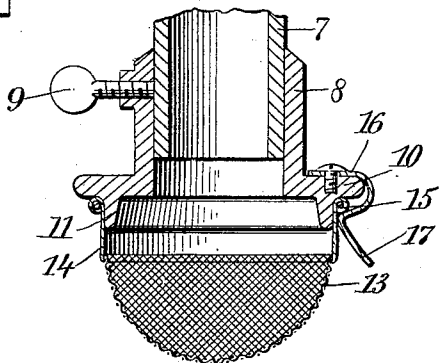
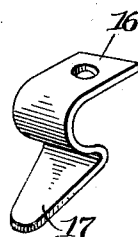


FIG. 4.



WITNESSES

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STRAINER.

938,274.

Specification of Letters Patent.

Patented Oct. 26, 1909.

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To all whom it may concern:

Be it known that I, THOMAS RICHARDSON, a citizen of the United States, and a resident of New Orleans, in the parish of Orleans and State of Louisiana, have invented new and useful Improvements in Strainers, of which the following is a full, clear, and exact description.

This invention has reference to improvements in strainers as are applied to faucets, for straining water and other liquids and thereby removing wigglers, bugs and other solid particles.

The object of the invention primarily is to provide in such a device a detachable straining element, which is easily applied and readily displaced for cleansing and other purposes without removing the device from the faucet.

The invention further resides in certain special features of construction and arrangement of parts which will be fully set forth hereinafter and particularly pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of a faucet with one embodiment of my improved strainer applied thereto; Fig. 2 is a central vertical sectional view through the strainer and a portion of the faucet; Fig. 3 is a plan of the strainer; and Fig. 4 is a perspective view of a spring-clip which is employed for detachably connecting the straining element to the remaining portion of the device.

In Fig. 1 I have shown my device applied to a faucet, which consists of a slightly tapered tubular shank 5 leading into a valve 6, the said valve controlling the passage of the water from the shank of the faucet into the tubular discharge 7. To the discharge 7 of the faucet I apply my improved strainer which comprises a tubular body 8 of sufficient internal diameter to neatly fit over the portion 7, and is affixed thereto by a set-screw 9, the latter being threaded through the side of the body 8. The lower end of the tubular body 8 is constructed with a flange 10 having a depending annular rib 11 formed on its under face. Exteriorly fitting the rib 11 is the straining element of my improved strainer, which is composed of a dished body 13, of fine wire mesh se-

cured at its upper edge to a sheet metal ring 14, the said ring having the top edge thereof constructed with a bead 15.

To the top face of the flange 10 are rigidly fixed a plurality of spring-clips 16, three being shown, all of which are bent to pass under the flange where they are provided with angularly and outwardly-turned fingers 17; the points at which these fingers are turned from the body of the clip serving to engage the bead 15 of the strainer and firmly press it against the flange 10. This construction of the spring-clips 16 permits of the strainer being easily applied and removed for cleansing and other purposes.

In applying the strainer it is only necessary to bring the bead 15 to bear on the under faces of the inclined fingers 17, when the latter will spring outwardly and admit of said bead passing above the angular bends of the spring-clips into contact with the flange 10. By pulling down on the strainer 8, the fingers 17 of the spring-clips will spring outwardly and disengage said clips from the bead of the strainer and permit the separation thereof from the tubular body. In order that the strainer may not be lost when so disconnected, it is attached to the tubular body by a chain or other flexible connection 18.

It is apparent that by making the straining element of my improved strainer detachable, as shown and described, it may be removed and the water or other liquid drawn through the faucet in the ordinary manner without wholly displacing the device.

While the construction as shown and described is the preferred embodiment of my improved strainer, the same may be modified in detail without departing from the nature of the invention as defined in the annexed claims.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a device of the character described, a tubular body having a flanged lower end provided with an annular rib on its under face, a set-screw threaded in the side of said body for attaching it to a faucet, a dished strainer having a bead formed at its upper edge and adapted to fit over said rib, and spring-clips rigidly attached to said flange for detachably connecting the strainer with the body.

2. In a device of the character described,

a tubular body having means for attaching it to a faucet, a dished strainer, and spring-clips for detachably connecting said strainer to the lower end of said body.

5 3. In a device of the character described, a tubular body having means for attaching it to a faucet, a dished strainer having a beaded upper edge, and spring-clips rigidly
10 beaded upper edge of the strainer and detachably connect it to the body.

4. In a device of the character described, a tubular body having a flanged lower end, means for attaching said body to a faucet,
15 a dished strainer having a beaded upper edge, and spring-clips rigidly attached to said flange and curving thereunder for engaging the beaded upper edge of the strainer, and having outwardly inclined fingers.

20 5. In a device of the character described, a tubular body having a flanged lower end provided with an annular rib on its under face, means for attaching the body to a fau-

cet, a dished strainer exteriorly fitting said rib, and spring-clips rigidly attached to the
25 flange of said body for detachably connecting the strainer thereto and having outwardly inclined fingers for the purpose described.

6. In a device of the character described, 30 a tubular body having a flanged lower end provided with an annular rib on its under face, means for attaching said body to a faucet, a dished strainer having a bead formed at its upper edge adapted to fit over said rib, 35 spring-clips rigidly attached to said flange for engaging said bead, and a flexible element joining the strainer to said body for the purpose described.

In testimony whereof I have signed my 40 name to this specification in the presence of two subscribing witnesses.

THOMAS RICHARDSON.

Witnesses:

CHARLES W. WEAVER,
HILLERY MARSH.