

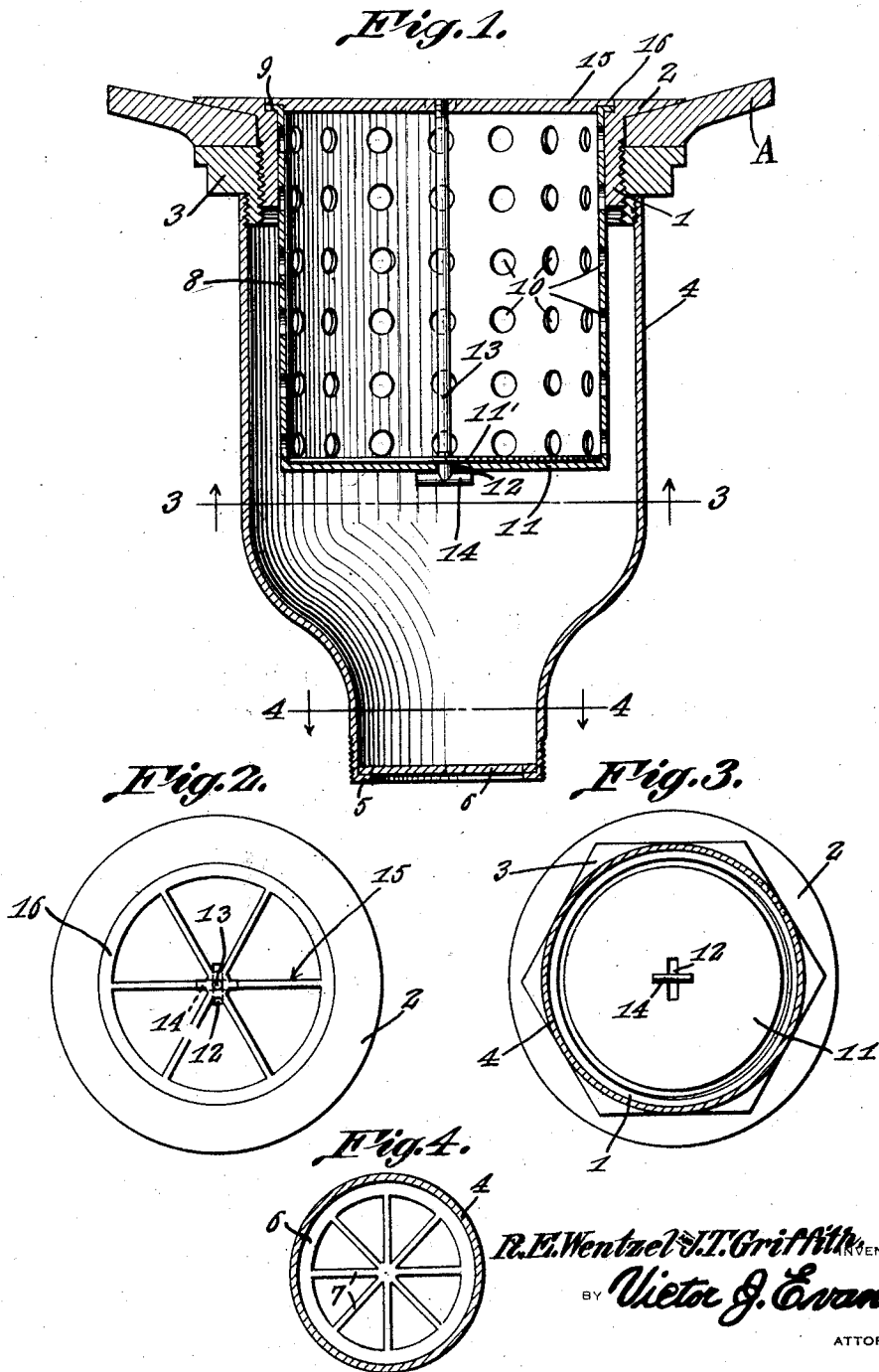
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REFUSE COLLECTOR

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REFUSE COLLECTOR.

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This invention relates to strainers and its general object is to provide a detachable refuse collector for sinks, wash basins, laundry tubs, bath tubs, and like plumbing fixtures that will collect refuse and foreign matter, but will allow free passage of the drain water, with the result the drain pipe of the fixture will be kept open at all times and in a clean and sanitary condition.

Another object of the invention is to provide a refuse collector of the character set forth, that can be secured to plumbing fixtures now in use, as well as to new fixtures which may be especially designed to receive the device.

Another object of the invention is to provide a refuse collector that can be easily and expeditiously removed and associated with the fixture in a quick and expeditious manner and with very little effort, and it is simple and inexpensive to manufacture.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing our invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a vertical sectional view illustrating the application of the device forming the subject matter of the present invention to a plumbing fixture such as a sink.

Figure 2 is a bottom plan view of the device per se.

Figure 3 is a sectional view taken on line 3—3 of Figure 1 looking in the direction of the arrows.

Figure 4 is a sectional view taken on line 4—4 of Figure 1 looking in the direction of the arrows.

Referring to the drawings in detail the reference character A indicates a fragmentary portion of a bottom of a plumbing fixture such as a sink, which is provided with the usual opening as shown. Arranged in the opening is a collar 1 having threads exteriorly arranged thereon, and formed with said collar 1 is a flange 2 having a tapered lower side following the inclination of the bottom of the sink A as shown. Threaded-

ly secured to the collar 1 through the medium of its threads is a ring nut 3 which engages the underside of the sink A for the purpose of securing the device to the sink and to form a water tight connection as will be readily apparent upon inspection of the drawings. The ring nut has threadedly secured thereto and depending therefrom a casing 4 which is considerably reduced at its bottom and terminates at its lower end in an inturned flange 5. The flange 5 supports a spider strainer 6 which includes the usual radiating arms 7.

The collar 1 is provided with an annular recess in its upper edge to accommodate a receptacle 8 which is cylindrical in formation and is provided with a flange 9 received in said recess. The receptacle 8 has formed in its vertical wall a plurality of openings 10 and is provided with a closed bottom 11 having a centrally disposed slot 12 therein through which passes a stem 13 having a cross arm 14 formed with its lower end and which cooperates with the slot 12 for a purpose which will be presently apparent.

Threadedly secured to the upper end of the stem 13 is a spider 15 which also includes radiating arms and the arms have their outer ends integrally formed with an annular rim 16 received in the recess of the collar 1 and is superposed upon the flange 9 of the casing 8 as clearly shown in Figure 1 of the drawings. Secured adjacent to the lower end of the stem in a manner to normally lie upon the bottom 11 is a disk 11' which is adapted for the purpose of removing refuse and the like from the receptacle.

From the above description and disclosure of the drawings it will be obvious that we have provided a strainer for plumbing fixtures of the character as set forth, that will collect refuse and other foreign matter so that such matter cannot stop or clog up the drain pipe of the fixture, and when it is desired to remove the contents of the receptacle 8, the spider 15 is partially rotated until the cross arm 14 is aligned with the slot 12. The spider can then be removed together with its stem 13, disk 11' and cross arm 14 and the disk 11' will of course carry with it refuse and the like that collects in the receptacle. The receptacle 8 can be removed by merely pulling upwardly upon the spider 15, when the stem and its cross arm 14 is arranged in operative position as shown, so

that ready access may be had to the casing whereby it may be thoroughly cleaned as will be apparent. The device may be associated with sinks and the like now in use
5 by merely removing the usual strainer and inserting the casing together with its respective parts in the usual straining receiving opening, but in the manufacturing of new fixtures, the strainer opening may be
10 formed of a size to conveniently receive the device which is associated therewith in the manner set forth and shown. The usual drain pipe is adapted to be threadedly secured to the reduced portion of the casing
15 or may be fixed thereto through the instrumentality of a coupling nut.

It is thought from the foregoing description that the advantages and novel features of our invention will be readily apparent.

20 We desire it to be understood that we may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

25 What we claim is:

1. A device of the character described comprising a casing adapted to be associated with a plumbing fixture such as a sink and disposed below the drain opening thereof,
30 a perforated receptacle arranged through the sink opening and supported in the casing, a spider including a rim arranged over said casing, means normally lying in the bottom of said receptacle to remove the contents thereof, said means being removable by said spider, and means for detachably securing said spider in operative association with said receptacle.

2. A refuse collector of the character described

comprising a casing, a flanged collar adapted to be arranged in the drain opening of a plumbing fixture, a ring nut securing said collar in said opening and threadedly receiving said casing, a receptacle
40 mounted in a recess formed in said collar and being disposed in said casing, a spider for said receptacle a closed bottom for said receptacle which is provided with openings in its side wall, means normally lying in the bottom of said receptacle and removable
45 therefrom by said spider, said means being adapted for removing the contents of said receptacle, and means for detachably securing said spider in operative position.

3. A refuse collector of the character described comprising a collar adapted to be arranged in the drain opening of a plumbing fixture, a ring nut securing said collar in said opening, a casing secured to and depending from said ring nut, a receptacle
50 having a flanged upper end received in an annular recess formed in said collar, said receptacle being provided with openings and a closed bottom formed with a slot, a spider for the top of said receptacle, a stem threadedly secured to said spider and passing through said receptacle, a disk secured to said stem and normally lying upon the bottom of said receptacle, and a cross arm
55 formed with said stem for securing said spider in operative position and cooperating with said slot whereby said spider may be removed together with the disk for removing the contents of said receptacle.

In testimony whereof we affix our signatures.

RALPH E. WENTZEL.
JOHN T. GRIFFITH.