P. LACOSTE.,

SINK STRAINER.

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1,424,022.

Patented July 25, 1922.

Fig. 1.

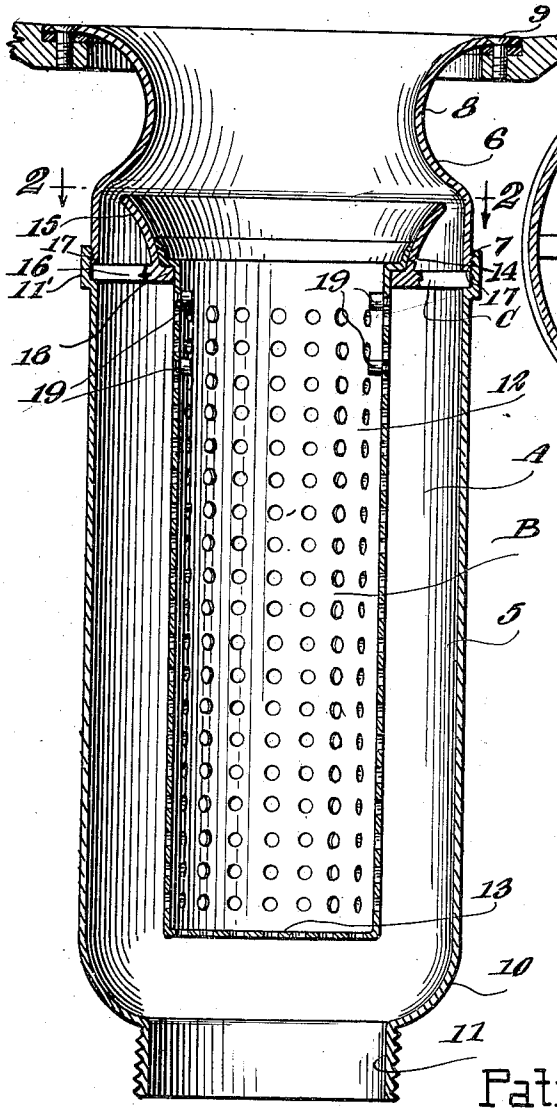


Fig. 2.

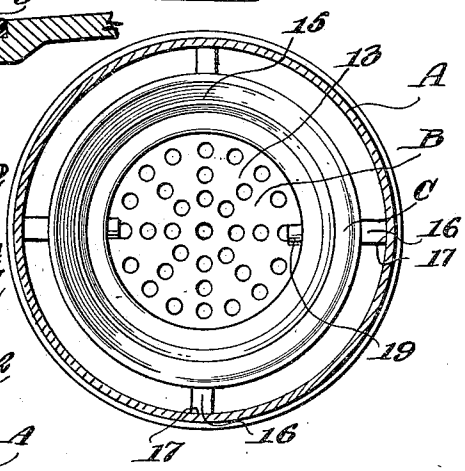
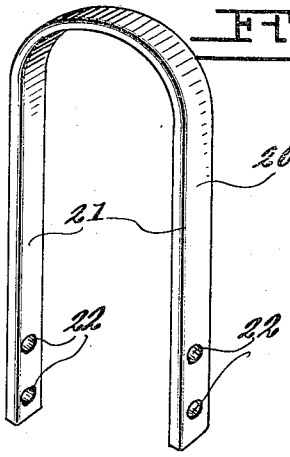


Fig. 3.



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UNITED STATES PATENT OFFICE.

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SINK STRAINER.

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To all whom it may concern:

Be it known that I, PATRICK LACOSTE, a citizen of the United States, residing at San Antonio, in the county of Bexar and State of Texas, have invented certain new and useful Improvements in Sink Strainers, of which the following is a specification.

This invention relates to attachments for drain outlets, such as sinks, wash basins, and the like, and the primary object of the invention is to provide an improved means for effectively preventing particles of dirt and the like from entering into the waste pipe and clogging the same.

Another object of the invention is to provide an improved strainer for drain pipes, which is so constructed and arranged in relation to the drain pipe that the solid matter will fall into the strainer while the waste water will pass around the same, thereby preventing the particles of dirt or the like from following the water into the drain pipe.

A further object of the invention is to provide an improved strainer for waste pipe so constructed as to catch the particles of dirt and solid matter without the passage of waste water therethrough, the strainer being detachably associated with the drain pipe to permit the removal thereof when the strainer becomes filled with solid matter.

A still further object of the invention is to provide an improved strainer for drain-pipes of the above character which is durable and efficient in use, one that is simple and easy to manufacture, and one which can be placed upon the market at a reasonable cost.

Other objects of the invention will appear in the following detail description taken in connection with the accompanying drawings, forming a part of this specification, in which drawings:

Figure 1 is a vertical longitudinal section through the improved drain provided with the improved screen.

Figure 2 is a transverse section taken on the line 2—2 of Figure 1, and

Figure 3 is a detail perspective view of the removable handle for removing the strainer from the drain pipe.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A indicates the casing for the strainer B which is held in place therein by a suitable carrier or support C. The casing A is adapted to be secured to the sink, wash basin or the like, and to the ordinary drain or waste pipe, and the casing forms a part of the drain or waste pipe.

The casing A includes a cylindrical body 5 and an upper relatively short cylindrical section 6. The lower end of the relatively short section 6 is provided with suitable exterior threads 7 for engaging the upper threaded end of the cylindrical body 5. The body 6 adjacent to its upper end is provided with an inwardly extending arcuate bowed portion or bead 8, which extends inwardly of the inner surface of the body 5 for a purpose which will be hereinafter more fully described. The upper end of the bead 8 terminates in an outwardly extending annular flange 9, which forms means whereby the casing A may be secured to the sink or the like. The lower end of the cylindrical body 5 is contracted as at 10 and provided with a suitable threaded extension 11 whereby the same can be connected to the ordinary drain pipe. The upper end of the section 5 is provided with an offset upwardly extending flange 11′, which is internally threaded for the reception of the exterior threaded lower end of the section 6. Owing to the offset portion 11′ formed on the upper end of the lower section 5, the inner surfaces of the upper and lower sections 6 and 5 extend flush with one another.

The strainer B includes a hollow cylindrical perforated body 12, which is positioned within the casing 5 and the same ends or terminates short of the contracted end 10 thereof. The lower end of the strainer is provided with a perforated wall 13, while the upper end of the same is opened and provided with an outwardly and upwardly annular flange 14.

The hanger or support C is provided for detachably holding the strainer B in concentric relation to the casing A and the same includes the upwardly and outwardly flared annular guide 15, which is provided with outwardly extending radially arranged horizontally disposed lugs 16 which are adapted to detachably engage in the recesses 17 formed in the lower edge of the section 6 which rests on the offset portion of the cylindrical body 5 of the casing. When the annular flared guide 15 is placed in position with the legs 16 in the recesses the lower surface of the short section 6 engages the

upper surface of the offset portion and prevents displacement of the strainer. The inner end of the guide 15 is provided with an inwardly extending annular supporting flange 18 upon which is adapted to rest the outwardly extending flange 14 formed on the strainer B.

The upper end of the outwardly flared guide 15 is located beyond the annular arcuately curved bead 8 so that any solid particles of matter flowing over the bead will drop into the guide 15 and then into the strainer.

The inner surface of the strainer B is provided at diametrically opposite positions with inwardly extending pairs of spaced lugs 19 and these lugs form means whereby the strainer B may be readily removed from the casing when the same become filled with solid matter and a handle 20 of inverted U-shape is provided for engaging the lugs 19. The arms 21 of the U-shaped handle 20 is provided with pairs of openings 22 and when it is desired to remove the strainer from the body, the legs are pressed inwardly toward its other end and inserted into the body of the strainer until the lugs 19 ride into the openings 22 at which times the arms 21 are released. Upon upward movement of the handle the strainer will be lifted therewith.

In use of the improved device the water in the sink will follow the curvature of the arcuate bead 8 and flow down the sides of the casing A. Any solid matter carried with the water will fall into the guide 15 when the same reaches the curved portion of the bead. This eliminates the flowing of the water in the strainer and thus prevents the particles of dirt from leaving the strainer which would be liable if the water was flowing therethrough.

From the foregoing description it can be seen that an improved strainer is provided of the above character which is exceptionally simple and durable, and which will effectively prevent the entrance of dirt into the waste pipe.

Changes in detail may be made without departing from the spirit or scope of my invention; but,

I claim:

1. The combination of a body having a drain aperture, of an attachment therefor including a casing arranged to surround the drain aperture, a strainer associated with the casing and spaced from the casing throughout its entire length, and a transversely curved bead formed on the upper end of the casing arranged above the strainer and to partially overhang said strainer.

2. The combination with a body having a drain opening, of an attachment therefor including a casing arranged to surround the drain casing, an annular flared guide carried by the opening and arranged in spaced relation to the inner surface thereof, the casing having an inwardly extending annular curved bead arranged above and outwardly of the guide, and a strainer carried by said guide.

3. The combination with a body having a drain aperture, of an attachment therefor including a casing arranged to surround the drain aperture, the upper end of said casing having an inwardly extending annular bowed bead formed thereon, an upwardly and outwardly flared annular guide carried by the casing and arranged below and outwardly of the bead and in spaced relation to the inner surface of the casing, and a strainer detachably carried by said guide.

4. A catch basin including a cylindrical casing including a pair of sections, the uppermost section having a lower exteriorly threaded terminal arranged to engage the upper end of the lowermost section, the lowermost section having an internally threaded offset portion for the reception of the lower terminal of the upper section, an upwardly and outwardly flared annular guide arranged in the casing, outwardly extending lugs formed on the guide and arranged to detachably engage the offset portion of the lower section, the lower end of the extension edge of the upper section being arranged to engage the upper surface of the offset portion and having recesses formed therein to receive the legs to prevent displacement of the same off of the offset portion, a strainer detachably associated with the guide, the upper end of said upper section being provided with a curved annular bead arranged inwardly of the guides.

PATRICK LACOSTE.