S. E. HORNER.

STRAINER FOR SINKS, BATH TUBS, &c.

APPLICATION FILED FEB. 1, 1908.

926,417. Patented June 29, 1909.

Fig. 1

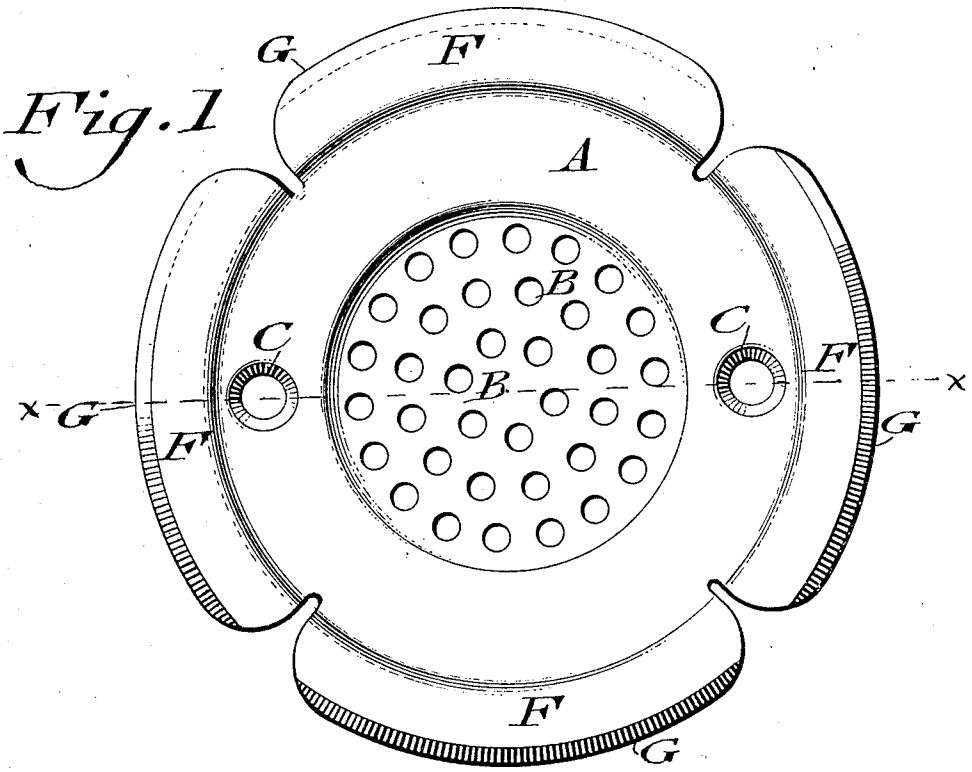


Fig. 2.

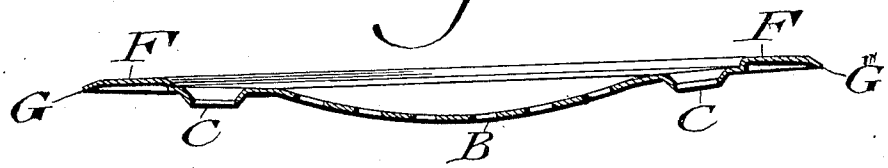
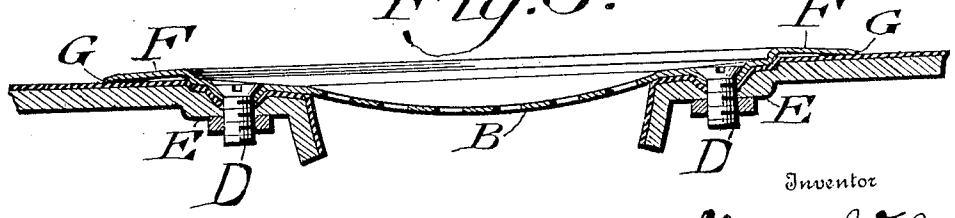


Fig. 3.



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STRAINER FOR SINKS, BATH-TUBS, &c.

No. 926,417. Specification of Letters Patent. Patented June 29, 1909.

Application filed February 1, 1908. Serial No. 413,778.

To all whom it may concern:

Be it known that I, SAMUEL E. HORNER, a citizen of the United States, residing at Ogontz, county of Montgomery, State of Pennsylvania, have invented a new and useful Strainer for Sinks, Bath-Tubs, &c., of which the following is a specification.

My invention relates to a strainer for a sink, bath tub, etc., and consists of a perforated body portion, a flange around the same and a lip on the periphery of the latter integral therewith, said lip extending downwardly from said flange and serving to be compressed against the surface or enamel of the sink, bath tub, etc., and thus make a tight joint therewith, and prevent the entrance of water or fluid thereinto.

For the purpose of explaining my invention, the accompanying drawing illustrates a satisfactory reduction of the same to practice, but the important instrumentalities thereof may be varied, and so it is to be understood that the invention is not limited to the specific arrangement and organization shown and described.

Figure 1 represents a top or plan view of a strainer embodying the invention. Fig. 2 represents a transverse section thereof on line *x*—*x* with the lip and flange shown as continuous. Fig. 3 represents a similar section showing the device in position.

Referring to the drawings:—A designates a plate preferably of metal, the same being perforated as at B for purpose of straining and draining and provided with openings C to receive screws D, whereby the plate may be firmly secured to the base of the sink, the floor of a bath tub or other article of service as at E.

Surrounding the plate is the flange F, and around the latter is the lip G, which is integral with said flange and jointless in its connection therewith and constitutes the periphery of the device, it being noticed that said lip extends angularly in downward direction from the flange and is somewhat resilient in its nature.

It will be seen that when the strainer is applied in position and the screws D are tightened, the plate is firmly connected with the article E. At the same time, the flange F is drawn downwardly and with it the lip G, the latter, owing to its resiliency and downward deflection, being caused to yield outwardly, so that it firmly engages and bites the surface with which it contacts and thereby produces a tight joint between the contiguous parts, said surface in most cases being enamel or other coating, and thus water or fluid is caused to flow from said surface over the tops of the lip and flange to the plate A without liability of entering said joint, leakage, collections, etc., thus being prevented.

It will be noted that the flange F is elevated at its junction with the body portion of the plate, as seen clearly in Fig. 3, so that normally all parts of the flange except the extreme point of the lip G are out of contact with the enamel, thus allowing of the necessary expansion and downward and outward resiliency or yield of the lip.

In the use of the term "perforated body or plate," I include a plurality of perforations or a single opening to receive the usual plug.

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

1. A strainer having a flange elevated at its junction with the strainer body and having an integral lip on the periphery thereof, said lip being deflected downwardly from the adjacent portion of the strainer and outwardly yieldable by downward pressure on the strainer near its periphery.

2. A strainer having an integral lip on the periphery thereof and a flange adjacent said lip, said flange being elevated at its junction with the strainer body, there being openings for the reception of securing means whereby when the strainer is secured in position the flange will be drawn downwardly and the lip outwardly deflected and firmly engaged with the adjacent surface.

3. A strainer comprising a perforated plate with openings for the reception of securing means, a shouldered flange beyond said openings and normally raised at its junction with said plate, and an integral resilient downwardly deflected lip at the periphery of said flange.

4. A strainer having an integral flange normally raised at its junction with the strainer body and around said flange an integral lip extending angularly in a downward direction from said flange and resilient, combined with means for applying pressure to said strainer adjacent said flange to draw said flange downwardly and deflect the lip outwardly.

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