

C. O. SCHOONOVER.
 OUTLET CONNECTION FOR SINKS.
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1,049,611.

Patented Jan. 7, 1913.

Fig. 1.

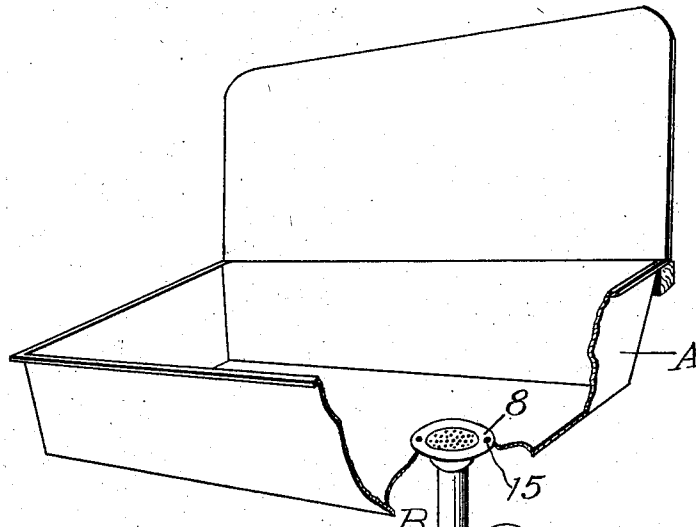


Fig. 2.

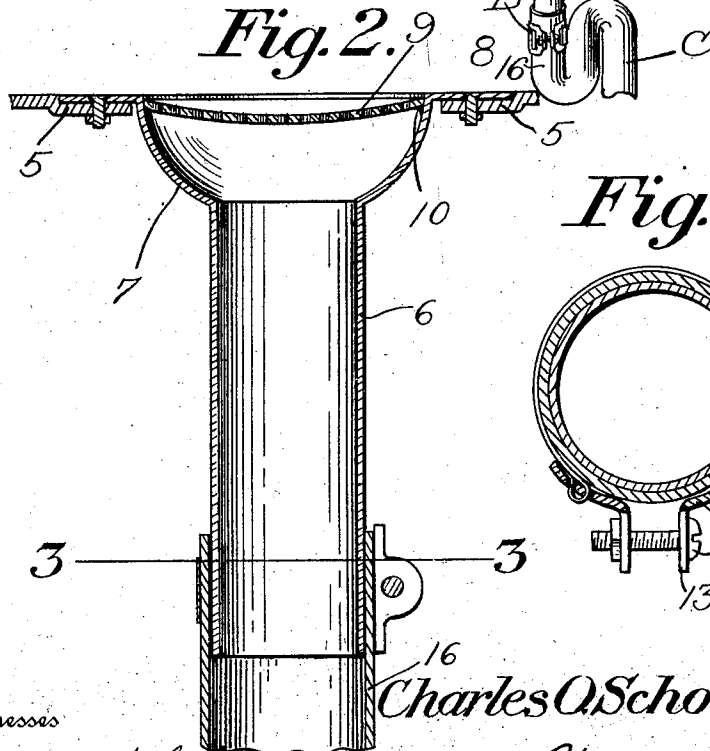
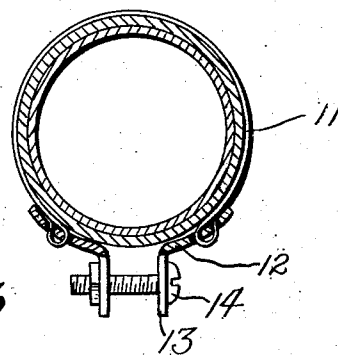


Fig. 3.



Witnesses

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To all whom it may concern:

Be it known that I, CHARLES O. SCHOONOVER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Outlet Connections for Sinks, of which the following is a specification.

This invention relates to kitchen sinks and similar fixtures and it has for its object to provide an outlet connection for the same which shall be simple in construction, easily applied and efficient in operation, and by the use of which wipe joints shall be avoided.

A further object of the invention is to provide a simple and efficient outlet connection embodying in its construction a strainer cup having a seat upon which a strainer may be removably supported.

A still further object of the invention is to provide an outlet connection which may be applied and effectively tightened without the use of screw threaded connections.

Further objects of the invention are to simplify and improve the general construction and operation of this class of devices.

With these and other ends 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 pointed out in the claim.

In the accompanying drawing 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 may be resorted to when desired.

In the drawing: Figure 1 is a perspective view with parts broken away showing a sink equipped with the improved outlet connection. Fig. 2 is a vertical sectional view showing the outlet connection detached from the sink. Fig. 3 is a transverse sectional view taken on the plane indicated by the line 3—3 in Fig. 2.

Corresponding parts in the several figures are denoted by like characters of reference.

The present invention is especially applicable to and adapted to be used in connection with so called flat bottomed sinks, a

specimen of which is shown at A in Fig. 1 of the drawings, said sink having a flat bottom which is not provided with a strainer cup but merely with an aperture which may be surrounded by a shallow seat for the reception of the outlet flange as shown at 5 in Fig. 2.

The improved outlet connection comprises an externally and internally smooth and unobstructed pipe 6 which is preferably made of spun or drawn metal such as brass or copper which may be nickel-plated or otherwise protected against corrosion; said pipe being provided at its upper end with an expanded portion forming a cup-shaped receptacle 7 which constitutes the strainer cup and which is provided at its upper edge with a laterally extending annular flange 8. The strainer 9 is supported in the cup 7 which may be provided adjacent to its upper edge with supporting means for said strainer, said supporting means being in the form of inwardly extending lugs or an annular rib as shown at 10.

B designates a clamping device which has been illustrated as being composed of a flexible metallic strip 11 the ends of which are suitably connected with clamping lugs 12 having extensions 13 for the passage of a connecting bolt 14 whereby the clamping device may be tightened as will be readily understood.

The flange 8 at the upper extremity of the strainer cup is provided with apertures for the passage of connecting members such as bolts 15 whereby it may be secured upon the bottom of the sink.

In practice, the improved connection is seated in the aperture in the bottom of the sink where it is secured by the fastening members 15; packing material of a plastic nature such as putty or white lead being preferably interposed between the flange 8 and its seat. The lower extremity of the pipe 6 is inserted into the connecting pipe 16, which may be one of the vertical branches of a trap as shown at C in Fig. 1; the connecting pipe 16, which may be made of lead or other ductile metal is firmly connected with the pipe 6 by means of the clamping device B by means of which the pipe 16 may be compressed and tightened upon the pipe 6. Plastic packing material may be interposed if desired in order to make a tight joint.

From the foregoing description taken in

connection with the drawings hereto annexed the operation and advantages of this invention will be readily understood by those skilled in the art to which it appertains. The construction is simple and inexpensive, and the device may be very readily applied to flat bottomed sinks and similar structures. The strainer plate may be readily removed thus affording access to the strainer cup whenever desired. The improved outlet connection allows for variation in length, and it may be readily installed without necessitating the cutting of pipes. Disconnection of the parts may be easily effected whenever desired in order to afford access to the trap.

Having thus described the invention, what is claimed is—

The combination with a sink of the flat-

bottom type, said sink having in the bottom thereof an outlet aperture surrounded by a shallow annular seat; of an integral internally smooth and unobstructed outlet pipe expanded at its upper end to form an annularly flanged cup the flange of which engages the shallow seat upon the bottom of the sink and is flush with said bottom, connecting bolts extending through the flange of the cup and through the recessed portion of the sink bottom constituting a seat, and a strainer detachably supported upon and within the cup.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES ORA SCHOONOVER.

Witnesses:

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