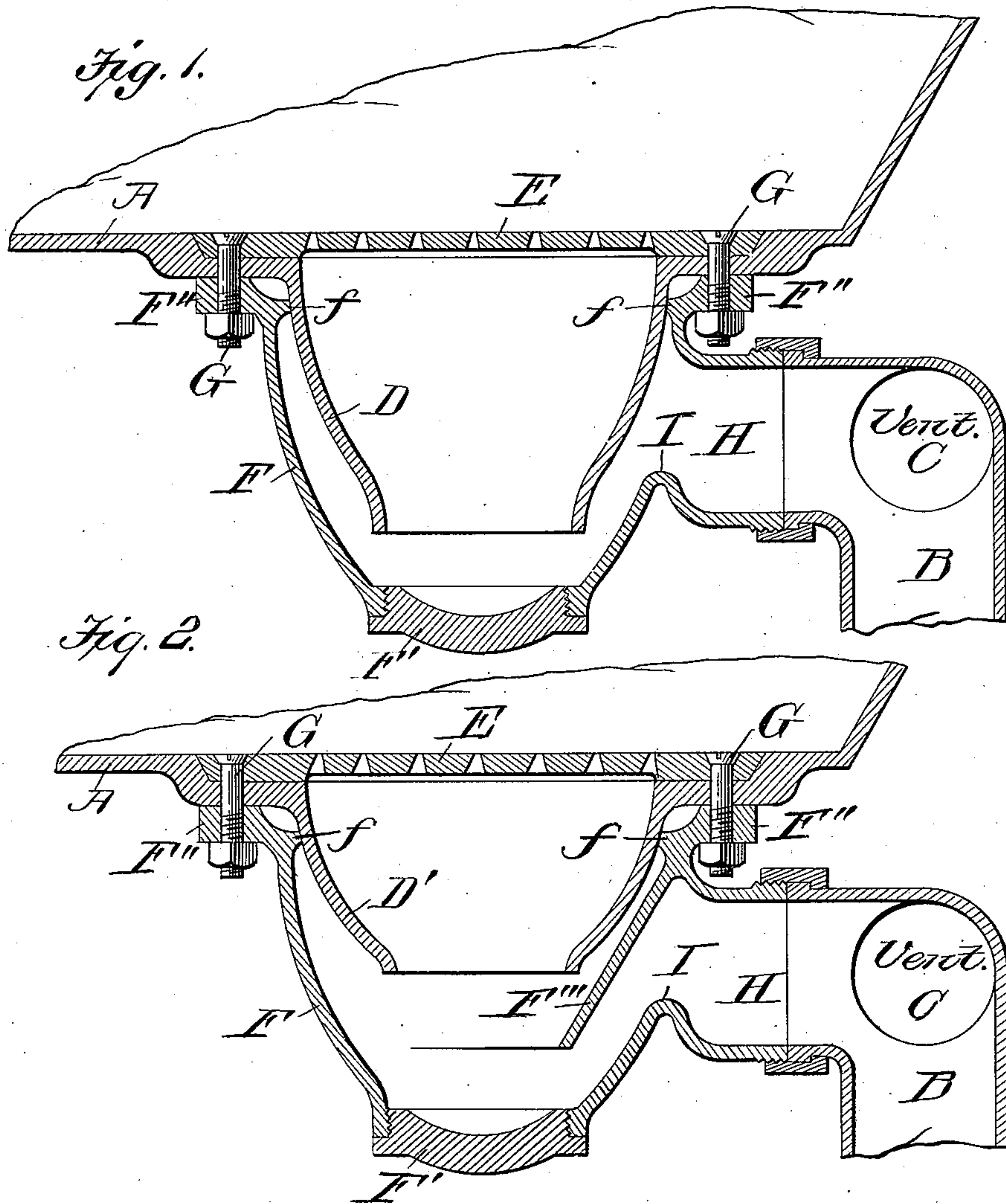


(No Model.)

B. H. SANDERS.  
SINK TRAP.

No. 558,569.

Patented Apr. 21, 1896.



Witnesses  
F. R. Cornwall.  
Hugh K. Wagner.

Inventor;  
Barney H. Sanders  
by Paul Bakewell  
his atty.



# UNITED STATES PATENT OFFICE.

BARNEY H. SANDERS, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE PLEUGER & HENGER MANUFACTURING COMPANY, OF SAME PLACE.

## SINK-TRAP.

SPECIFICATION forming part of Letters Patent No. 558,569, dated April 21, 1896.

Application filed March 18, 1895. Serial No. 542,092. (No model.)

*To all whom it may concern:*

Be it known that I, BARNEY H. SANDERS, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Sink-Traps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, wherein—

Figure 1 is an approved form of my sink-trap. Fig. 2. is a similar view of a slightly different form.

This invention relates to a new and useful improvement in sink-traps, the objects being to construct a trap which may be easily cleaned, and one which may be connected to the sink and waste-pipe without the use of wiped joints.

With these objects in view the invention consists in the construction, arrangement, and combination of the several parts, all as will hereinafter be described, and afterward pointed out in the claims.

In the drawings, A indicates the bottom of a sink, B the waste-pipe, and C the vent-pipe, all of such parts being of any ordinary or approved construction, except as will hereinafter be specified.

Referring now more particularly to Fig. 1, D indicates an inverted-bell-shaped extension formed on the under side of the sink and around the trap-opening, above which, and seated on a suitable shoulder, is a removable perforated plate E, preferably flush with the bottom of the sink.

F indicates the body of the trap-casing, which is formed with an opening in its bottom closed by a plug F', through which opening access may be gained to the interior of the trap for the purpose of cleaning and removing dirt and sediment. Around the inner upper edge of casing F is formed a lip *f*, which lies in close proximity to the base of the inverted-bell-shaped extension when the parts are assembled, while above said lip is formed an annular groove, in which is seated a packing-ring. A flange F'' is provided at the top of this casing, by which it and the plate E are secured in their respective positions on the sink by the bolts G. The bell-

shaped extension, diverging, as it does, from its bottom, will wedge the packing-ring in its seat, causing it to spread and make a tight joint. The lip *f* will also assist in this, and a continued tightening of the bolt will draw the lip up until it contacts with the base of the extension, when it will make a tight joint by wedging.

H indicates the opening leading from the side of the trap to the waste-pipe. The casing at the bottom of this opening is bent up or formed with lip or bridge-wall I, which extends above the bottom line of the extension D. The water-line is determined by the height of this wall, and in operation the bottom of the inverted-bell-shaped extension D is constantly immersed, forming a seal and preventing noxious gases in the waste-pipe from escaping into the room.

When it is desired to dismantle the trap for the purpose of cleaning, it is only necessary to remove the plug F', when the whole of the interior is exposed to a rag or brush, which may be manipulated in and around the extension D and around the interior of the casing. By removing the bolts G plate E may be removed and the hand inserted for the purposes of cleaning. If the trap is uncoupled and removed from the waste-pipe, the shell F may be cleaned on each side of the bridge-wall. In fact, the operation of disassembling and assembling is so simple, due to the absence of wiped and putty joints, that every part of the trap may be exposed to view and cleaned in a very few minutes.

In Fig. 2 the parts are substantially the same as illustrated in Fig. 1, with the exception that the inverted-bell-shaped extension D' is not so long, and the seal is formed by a curtain-wall F''', extending from the interior of the trap-casing over the opening H and down beyond the horizontal plane of the bridge-wall I. This curtain-wall is preferably formed integral with the trap-casing and extends across from side to side, it being slightly bellied to afford reception for the extension D'.

I have shown several forms of attaching the trap-casing to the sink, and am aware that there are many other forms which could be

advantageously used without in the least departing from the nature and principle of my invention.

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

10 1. In a sink-trap, the combination with the sink which is formed with a depending flange around the opening to the trap, of trap-casing formed with a lip near its upper edge and an annular seat above said lip, a pipe leading from the side of the casing, and a wall within the casing forming a seal; substantially as described.

15 2. In a sink-trap, the combination with the sink which is formed with a depending flange around the opening to the trap, of a trap-casing formed with an internal lip near its upper edge and an annular seat above said lip, a pipe leading from the side of the casing, a

plug in the bottom of the casing, and a wall within the casing which forms a seal; substantially as described.

3. In a sink-trap, the combination with an inverted-bell-shaped extension which is 25 formed on the sink, of a trap-casing formed with a lip near its upper edge, and an annular seat above said lip, means for drawing the trap-casing up over the inverted-bell-shaped extension, and a waste-pipe leading 30 from the side of the trap-casing; substantially as described.

In testimony whereof I hereunto affix my signature, in presence of two witnesses, this 9th day of March, 1895.

BARNEY H. SANDERS.

Witnesses:

F. R. CORNWALL,  
HUGH K. WAGNER.