

No. 704,601.

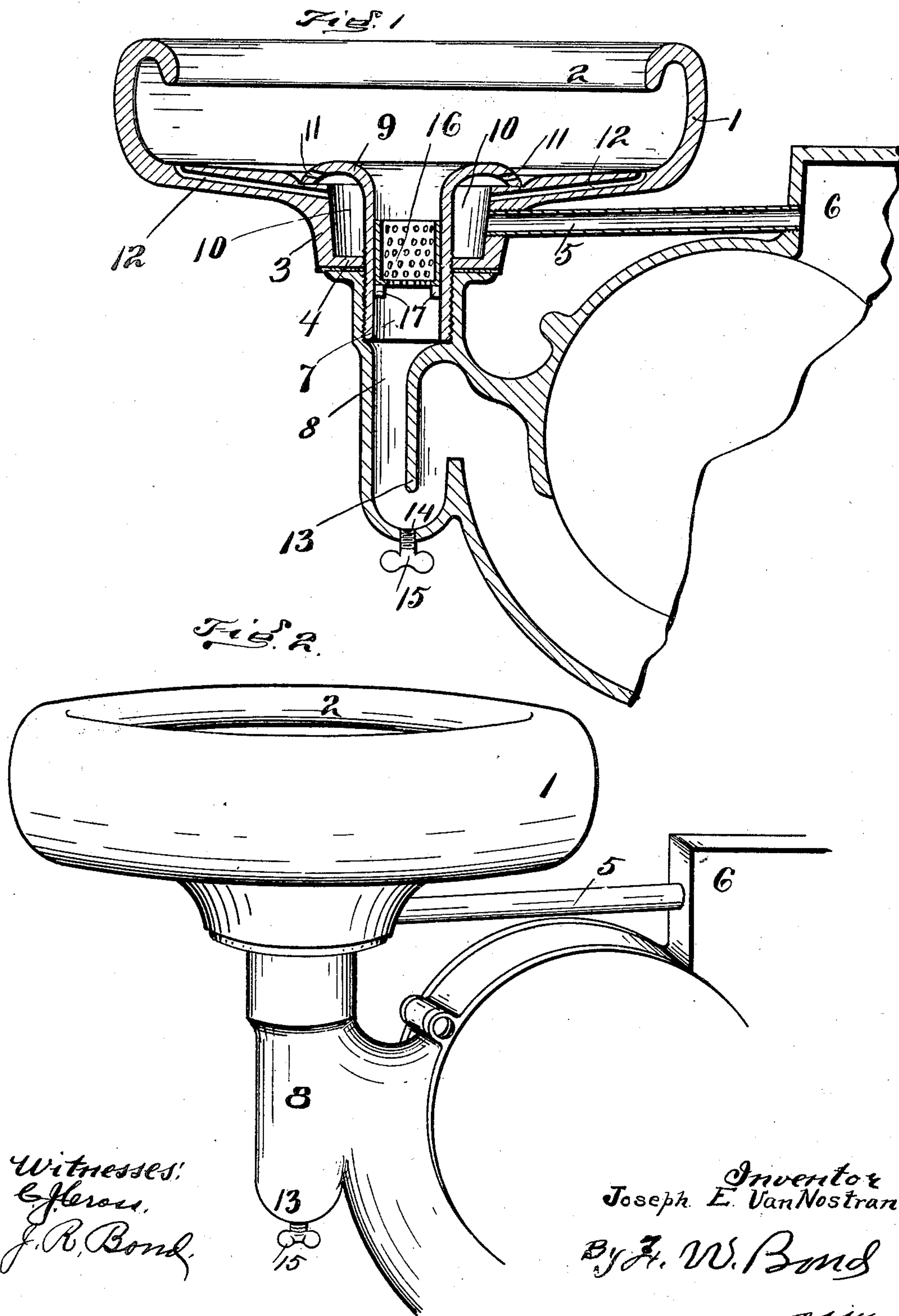
Patented July 15, 1902.

J. E. VAN NOSTRAN.

DENTAL CUSPIDOR.

(Application filed Dec. 21, 1900.)

(No Model.)



Witnesses:  
E. Heron,  
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Inventor  
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By J. W. Bond  
Att'y.



# UNITED STATES PATENT OFFICE.

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## DENTAL CUSPIDOR.

SPECIFICATION forming part of Letters Patent No. 704,601, dated July 15, 1902.

Application filed December 21, 1900. Serial No. 40,632. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH E. VAN NOSTRAN, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Dental Cuspidors; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a vertical section. Fig. 2 is a perspective view.

The present invention has relation to cuspidors designed for use in connection with dental chairs; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in both figures of the drawings.

In the accompanying drawings, 1 represents the bowl, which is preferably of the form shown, and, as shown, it is provided with the intumed flange 2, located at the upper portion or top of the bowl proper. The bottom or under side of the bowl is provided with the flange 3, which flange forms a base or support for the bowl proper. The bottom or lower portion of the flange 3 is provided with the flanged bottom 4. To the flange 3 and at a point intermediate the flange 4 and the bowl proper is connected the supply-pipe 5, which supply-pipe may lead to any source of supply; but in this instance it is shown connected to a chamber, such as 6. Within the flange 3 is located the tube 7, the bottom or lower end of which is screw-threaded upon its outer periphery and is so formed for the purpose of connecting said tube to the top or upper end of the waste-pipe 8, which waste-pipe is screw-threaded upon its inner periphery at its upper portion. The tube 7 extends upward, and its upper end is provided with the outward-extending flange 9, which outward-extending flange is formed of such a size that it will extend over a portion of the bottom of the bowl 1, as illustrated in Fig. 1.

The curved flange 9 is so formed that its ex-

treme upper portion will come a short distance above the bottom of the bowl 1 for the purpose hereinafter described.

The tube 7 is formed of lesser diameter than the inner diameter of the flange 3, so that when the tube 7, together with its flange 9, is placed in proper position with reference to the bowl 1 a chamber 10 will be formed or provided between the inner periphery of the flange 3 and the outer periphery of the tube 7, said chamber being located directly under the flange 9 of the tube 7, so that water will find its way through the apertures 11 or 12.

It will be understood that any desired number of apertures 11 may be provided, so that when water is forced into the chamber 10 it will be delivered upon the bottom of the bowl 1 in fine streams and by the force of the water it will be carried toward the wall or flange of the bowl 1, which in turn will find its way toward the center of the bowl, passing over the top of the flange 9 and escaping through the pipe 7, by which arrangement an outer undergoing current is formed and a return upper current formed, so that whatever finds its way into the cuspidor in use will be carried toward the tube 7 and removed. If in the event it is desired to supply water direct to the outer portion of the bowl, the bottom of the bowl may be provided with a number of passages, such as 12, which passages lead from the chamber 10 to the outer portions of the bottom of the bowl 1; but this is not absolutely necessary to carry out the object and purposes of the present invention, but may be used as a secondary water-supply.

For the purpose of preventing sewer-gas from escaping into the bowl 1 the waste-pipe 8 is provided with the trap 13, by which arrangement a body of water is always present in said trap except when it is desired to remove the water from the trap by means of the aperture 14, which aperture is normally closed by the plug 15.

For the purpose of insuring the return flow of water after it has been forced to the outer portion of the bowl the bottom of the bowl may be inclined toward the flange 9.

For the purpose of providing a catch-basin for anything of value that may find its way into the bowl 1 the perforated cup 16 is pro-



vided, which is located in the tube 7 and held in proper position by means of suitable lugs 17 or their equivalents. It will be understood that the cup 16 will be so connected that it  
5 can be easily removed from time to time.

It will be understood that by my peculiar arrangement as the pipe 7 is turned so as to connect the same to the upper end of the waste-pipe the flange 9 will clamp the bowl,  
10 so as to firmly seat and hold said bowl in proper position.

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

15 1. The combination of a bowl provided with a chambered flange or base located upon the bottom or under side of the bowl, the chamber thereof communicating with the bowl, a supply-pipe leading into the chamber of the  
20 flange, a pipe 7 located in the chamber and supported in fixed position, said portion of the pipe located in the chamber formed of less diameter than the diameter of the cham-

ber and its upper end provided with a curved flange, said curved flange located over a por- 25  
tion of the bottom of the bowl and provided with apertures communicating with the chamber in the flange and the chamber of the bowl, substantially as and for the purpose specified.

2. The combination of a bowl provided with 30  
a chambered flange or base, a supply-pipe leading into the chambered flange, a pipe 7 located in the chambered flange and provided with a curved top and the bottom of the bowl provided with passages extended from the 35  
chambered flange outward and communicating with the bottom of the bowl all arranged, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence 40  
of two witnesses.

JOSEPH E. VAN NOSTRAN.

Witnesses:

F. W. BOND,  
J. A. JEFFERS.