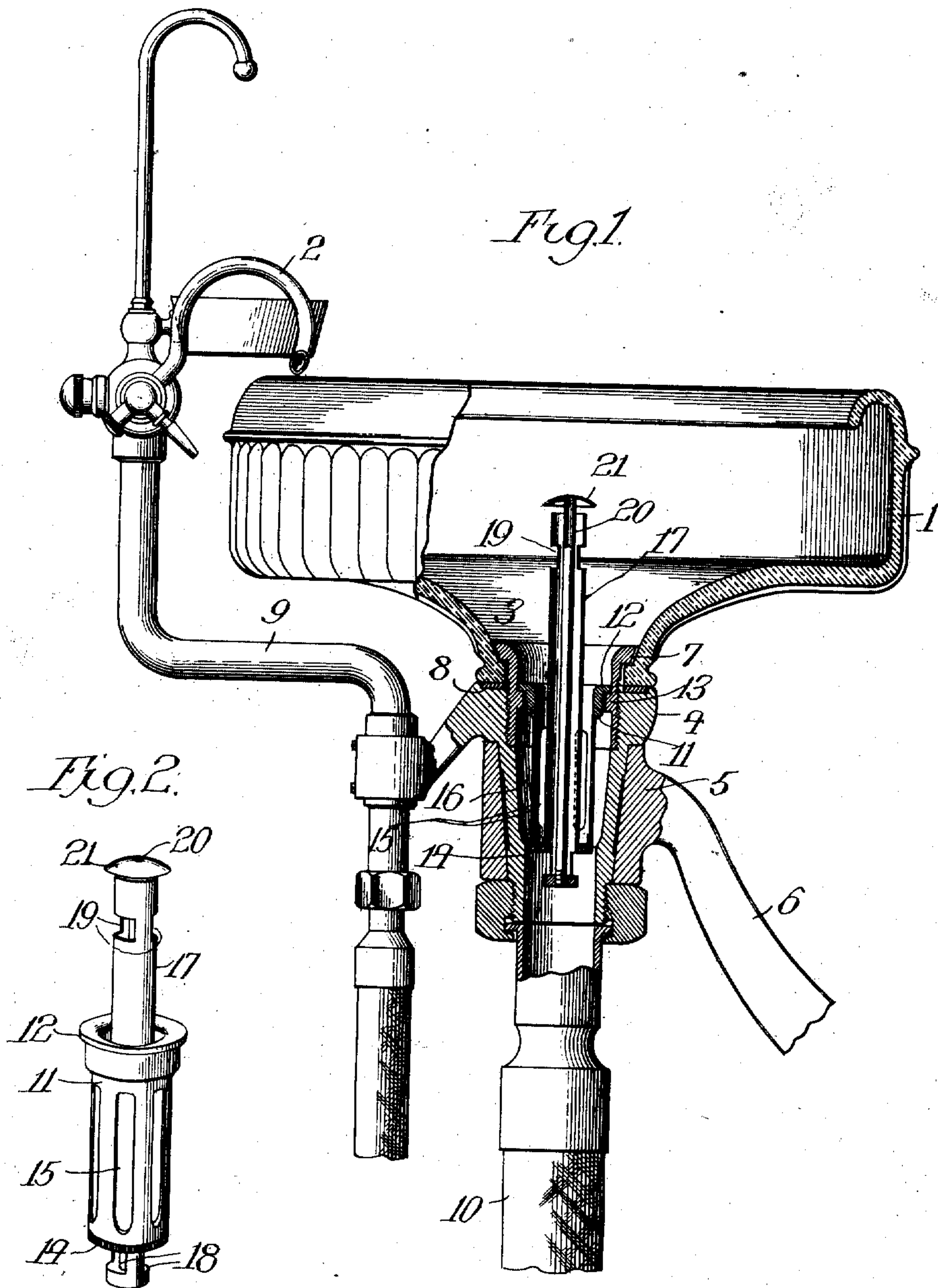


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FOUNTAIN SPITTOON.
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Patented Apr. 25, 1911.



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UNITED STATES PATENT OFFICE.

RUDOLPH F. BIGALKE, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS,
TO A. C. CLARK & COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

FOUNTAIN-SPITTOON.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, RUDOLPH F. BIGALKE, a citizen of the United States, residing at Chicago, Cook county, Illinois, have invented certain new and useful Improvements in Fountain-Spittoons, of which the following is a specification.

My invention pertains to that class of spittoons known as fountain or flushing spittoons commonly used by dentists, physicians, surgeons and the like and the same has relation more particularly to the single bowl type of fountain spittoons.

The object of my invention is to provide a fountain spittoon with an efficient and reliable overflow device which shall prevent overflowing of the bowl in case the usual outlet or drain opening of the bowl should happen to become clogged or closed by cotton or other foreign matter thrown into the bowl.

The various features of novelty and utility of my invention will be apparent from the description hereinafter given.

In the drawing Figure 1 is a section of a single bowl fountain spittoon with a portion thereof in elevation and illustrating my overflow device incorporated therewith; and Fig. 2 a perspective of the overflow device.

Referring to the present embodiment of my invention as illustrated in the drawing, the fountain spittoon comprises essentially as usual the bowl 1 of suitable size and material such as metal, glass or the like and means for supplying water such as the curved pipe 2 connected with a suitable source of water supply. As is well-known this type of fountain spittoon is provided with a central or drain opening 3 formed by depressing the bottom at its central portion and providing an opening thereat. The bowl is secured or clamped in a suitable manner to a supporting sleeve 4 which in the present instance is itself supported within the sleeve portion 5 of the usual bracket or supporting arm 6. In the present instance this clamping is accomplished by means of an externally threaded sleeve or ferrule 7 which engages the internal screw threads formed in the passage or bore through the supporting sleeve 4 whereby the top annular flange of such sleeve or bushing 7 by engaging an internal flange on the bowl, clamps the latter securely upon the support-

ing sleeve 4 or upon an interposed gasket 8. As is usual the supporting sleeve 4 also supports the water-supply pipe 9 which supplies the water to the pipe 2 in the well known manner. It will also be understood that the supporting sleeve 4 is suitably connected to the waste pipe 10 which is usually made flexible.

The fountain spittoon as thus far described is that which is old and well known as the Clark single bowl spittoon and it is in this general form or type of spittoon, that is the single bowl type, that my invention finds useful application. As hereinbefore stated the object of my invention is to prevent overflow of the bowl and consequent flooding in case cotton or the like should become clogged in the outlet or drain opening of the bowl. To this end I suspend or arrange within the drain opening my overflow device which in the present instance extends into and longitudinally of the supporting sleeve 4 as clearly illustrated in Fig. 1. This overflow device as herein illustrated comprises a shell 11 of slightly larger diameter at the upper end and provided at such end with a lateral marginal or annular flange 12 which is adapted to rest upon the shoulder formed by an annular flange 13 projecting inwardly from the sleeve or ferrule 7, whereby such shell is suspended within the drain opening or outlet. The upper end of this shell is normally always open and in communication with the bowl but the lower end is closed by means of a screw plug 14, it being understood that the water draining from the bowl passes to the interior of the shell and through openings or longitudinal slots 15 in the sides of such shell as clearly indicated in Fig. 2, the water then passing into the chamber or passage 16 in the interior of the sleeve 4 from whence it escapes to the waste pipe around the lower end of the overflow device. The overflow pipe 17 is supported near its lower end by the plug 14 and the same extends longitudinally and concentrically of the shell, extending slightly below the lower plane of the shell and a considerable distance thereabove and into the body of the bowl. The lower end of the overflow pipe is closed in suitable manner and the passage therethrough is arranged to communicate with the waste pipe through lateral passages 18 while the upper end is arranged to communicate with the interior

of the bowl not only through its upper end but also by means of the lateral passages 19. An air pipe 20 is arranged centrally of the overflow pipe, the same being supported at its lower end in the closed end of the overflow pipe which the upper end thereof projects beyond the top of the overflow pipe and is surmounted or provided at its upper end with a deflecting cap or hood 21 to prevent the entrance of any foreign matter in the upper end of the overflow pipe.

In practice, the water draining from the bowl passes downwardly through the outlet 3 in the annular passage around the overflow pipe, between such pipe and the shell, then outwardly through the slots or openings 15, into the passage or chamber 16 and thence downwardly to the waste pipe. Any air that may be carried downwardly by the draining water escapes upwardly through the openings 18 and through the overflow pipe. However in case that the drain or outlet passage should become clogged in any manner, the water will accumulate in the bowl until its level reaches the openings 19 in the overflow pipe, whereupon the water will drain downwardly in such pipe and pass therefrom to the waste pipe through the openings 18. Under these conditions, the air carried downwardly by the draining water passing through the overflow pipe is permitted to escape through the air pipe 20, the air passing directly upward from the lower end thereof to the upper end. It will be understood from the foregoing description that under normal conditions, the overflow pipe serves as an air escape pipe but under the conditions named, the same serves as a water drain pipe while the air pipe 20 thereupon acts as the air escape pipe.

By preference and as herein shown my overflow device is made compact and self-contained, the same being an entity as illustrated in Fig. 2 and adapted to be bodily removable from and insertible within the drain opening of the spittoon, with the result that the entire overflow device may be instantly removed for cleansing purposes or for any other reason. Moreover the construction is such that the overflow device will easily find its place when directed into the drain opening by the operator. Furthermore, my new device or spittoon attachment, besides serving the function of an overflow arrangement, also serves the function of a trap with the result that such device is a combined overflow and trap, inasmuch as the foreign matter settles and is collected in the shell while the water draining from the bowl passes through the openings or perforations in such shell.

I claim:

1. In a fountain spittoon, the combination, with the spittoon having an outlet and with the water supply means, of a remov-

able overflow device insertible in the outlet and providing for the usual drain of water for the bowl, said device having a centrally arranged overflow pipe extending upwardly into the bowl above the plane of the outlet for draining the bowl in case of stoppage of said outlet for usual draining through said device, and an air pipe passing through said overflow for relieving the air when the overflow pipe is in operation.

2. In a fountain spittoon, the combination, with the spittoon bowl having an outlet and with the water supply means, of an overflow device for draining the bowl in case of stoppage of said outlet comprising an overflow tube extending into said outlet and an air tube extending through the overflow tube and communicating with the space therebelow.

3. In a fountain spittoon, the combination, with the spittoon bowl having an outlet and with the water supply means, of an overflow device for draining the bowl in case of stoppage of said outlet comprising a perforated shell arranged in and concentric of said outlet, and an overflow tube extending upwardly into the bowl arranged within said shell and communicating with the space therebelow to provide a passage independent of the usual drain through said shell.

4. In a fountain spittoon, the combination, with the spittoon bowl having an outlet and with the water supply means, of an overflow device for draining the bowl in case of stoppage of said outlet comprising a perforated shell arranged in said outlet, and an overflow tube extending upwardly into the bowl arranged together and concentric with the shell and passing through the lower end of the shell to provide a passage independent of the usual drain through said shell.

5. In a fountain spittoon, the combination, with the spittoon bowl having an outlet and with the water supply means, of an overflow device for draining the bowl in case of stoppage of said outlet comprising a shell with lateral openings and closed at its lower end but open at its upper end to communicate with the bowl, and an overflow tube extending upwardly into the bowl arranged within and concentric with the shell and passing through the closed end thereof to provide a passage independent of the usual drain through said shell.

6. In a fountain spittoon, the combination, with the spittoon bowl having an outlet and with the water supply means, of an overflow device for draining the bowl in case of stoppage of said outlet comprising a shell with lateral openings and closed at its lower end but open at its upper end to communicate with the bowl, an overflow tube arranged within the shell and passing

through the closed end thereof, and an air tube arranged within the overflow tube and communicating with the space therebelow.

7. In a fountain spittoon, the combination, with the spittoon bowl having an outlet and with the water supply means, of an overflow device for draining the bowl in case of stoppage of said outlet comprising a shell with lateral openings and closed at its lower end but open at its upper end to communicate with the bowl, an overflow tube arranged within the shell and passing through the closed end thereof, an air tube arranged within the overflow tube and communicating with the space therebelow, and a deflecting cap arranged at the upper end of the air tube.

8. In a fountain spittoon, the combination of the bowl having a central outlet, the water supply means, a bushing or sleeve arranged in said outlet and having an internal annular flange, and an overflow device comprising a shell concentric with the outlet and having a flange resting upon said annular flange and having openings for the usual drain from the bowl, and an overflow pipe passing through said shell and extending upwardly into the bowl, said overflow pipe having a passage independent of the usual drain in said device.

9. In a fountain spittoon, the combination of the bowl having a central outlet, the water supply means, a bushing or sleeve arranged in said outlet and having an internal annular flange, and an overflow device comprising a shell having a flange resting upon said annular flange and having openings for the usual drain from the bowl, an overflow pipe passing through said shell and extending upwardly into the bowl, and an air pipe extending longitudinally through the overflow pipe and communicating with the space therebelow.

10. In a fountain spittoon, the combination of the bowl having an outlet, the water supply means, and a combined overflow and trap device comprising a perforated shell for the usual outlet of water and for the collection of foreign matter, and an overflow tube rising from and passing through said shell to drain the water from the bowl in case the usual drain through the shell is closed, said shell being arranged in said bowl outlet, and said overflow tube extending a considerable distance above the shell whereby when the device is placed in the bowl it will tend to automatically take its place in the bowl opening.

11. In a fountain spittoon provided with water supply means, the combination, with a spittoon bowl having a downwardly tapered bottom provided with a seat at its lowermost portion and an outlet chamber therebelow, of a removable overflow device comprising a lower shell portion provided with openings

for the usual drain of water through said outlet chamber and arranged to be seated in said outlet chamber, and a central overflow pipe extending from a point below said drain openings upwardly for a considerable distance above the shell, whereby when the device is placed in the bowl it will tend to automatically seat itself with the shell portion in the outlet chamber of the bowl.

12. In a fountain spittoon provided with water supply means, the combination, with a spittoon bowl having a downwardly tapered bottom provided with a seat at its lower portion and an outlet chamber therebelow, of a removable overflow device comprising a shell arranged to be seated in said outlet chamber and perforated at its sides for the lateral drain of water therethrough into said outlet chamber, and a central overflow pipe opening below said shell and extending therethrough upwardly for a considerable distance above the shell, whereby when the device is placed in the bowl it will tend to automatically seat itself with the shell portion in the outlet chamber of the bowl.

13. In a fountain spittoon provided with water supply means, the combination, with a spittoon bowl having a downwardly tapered bottom portion provided with a seat at its lowermost portion and an outlet chamber therebelow, of a removable combined overflow and trap device comprising a shell arranged to be seated in said outlet chamber and having a closed bottom portion for the collection of foreign matter and lateral openings thereabove for the lateral discharge of water to the outlet chamber, and a central overflow pipe opening below said shell and extending therethrough upwardly for a considerable distance above the shell, whereby when the device is placed in the bowl it will tend to automatically seat itself with the shell portion in the outlet chamber of the bowl.

14. In a fountain spittoon provided with water supply means, the combination, with a spittoon bowl having a downwardly tapered bottom provided with a seat at its lowermost portion and an outlet chamber therebelow of a removable overflow device comprising a lower shell portion provided with openings for the usual drain of water through said outlet chamber and arranged to be seated in said outlet chamber, a central overflow pipe extending from a point below said drain openings upwardly for a considerable distance above the shell, whereby when the device is placed in the bowl it will tend to automatically seat itself with the shell portion in the outlet chamber of the bowl, and an air tube passing through said overflow pipe for relieving the air when the overflow pipe is in operation.

15. In a fountain spittoon provided with

water supply means, the combination, with a spittoon bowl having a downwardly tapered bottom provided with a seat at its lower portion and an outlet chamber therebelow, of a
5 removable overflow device, comprising a shell arranged to be seated in said outlet chamber and perforated at its sides for the lateral drain of water therethrough into said outlet chamber, a central overflow pipe open-
10 ing below said shell and extending there- through upwardly for a considerable dis-

tance above the shell, whereby when the device is placed in the bowl it will tend to automatically seat itself with the shell portion in the outlet chamber of the bowl, and an
15 air tube opening below the outlet of said overflow pipe and extending upwardly there- through beyond the upper end thereof.

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Washington, D. C."
