R. B. RODGERS.

DRINKING FOUNTAIN.

APPLICATION FILED MAR. 25, 1918.

1,290,785.

Patented Jan. 7, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

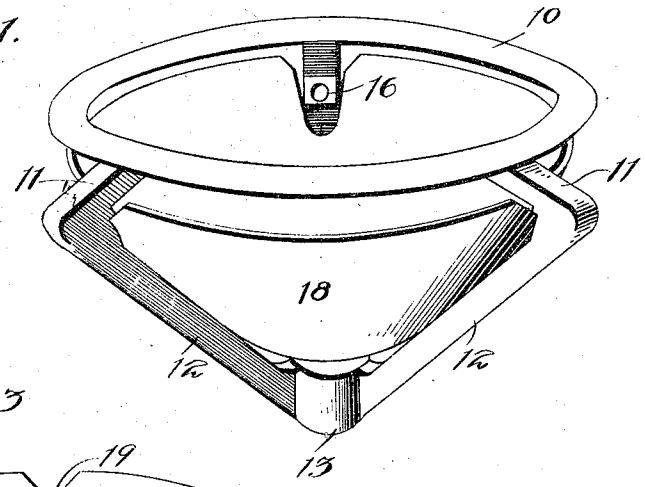


Fig. 3

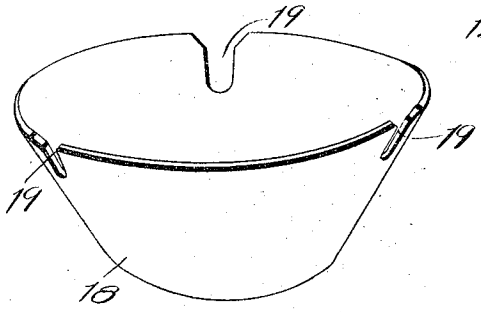
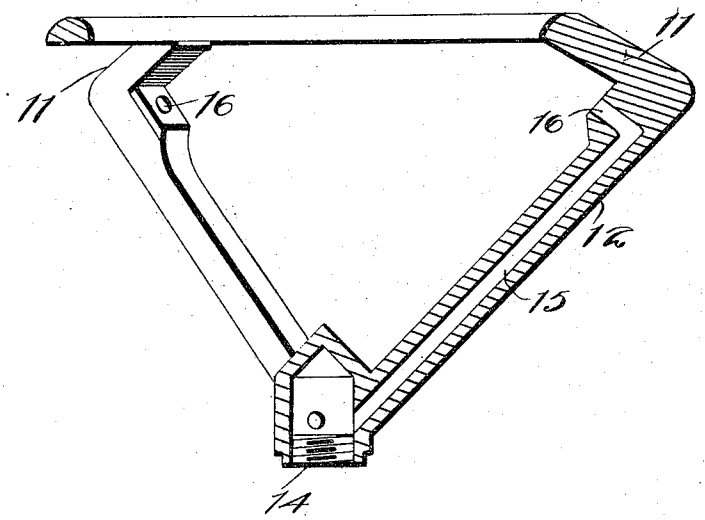


Fig. 2.



WITNESSES

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2 SHEETS—SHEET 2.

Fig. 4.

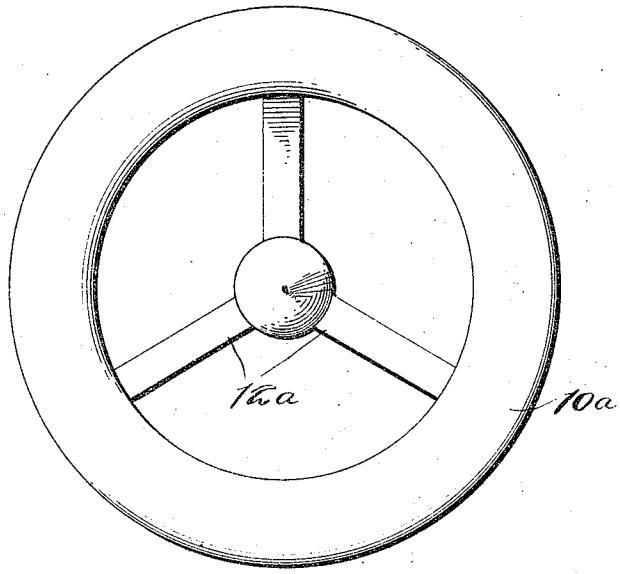


Fig. 5.

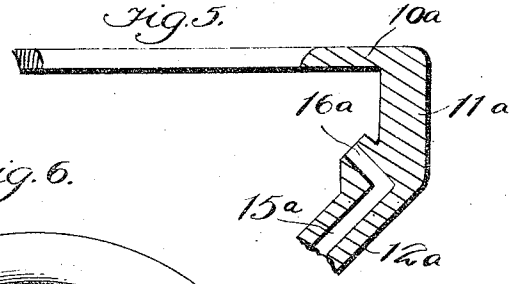


Fig. 6.

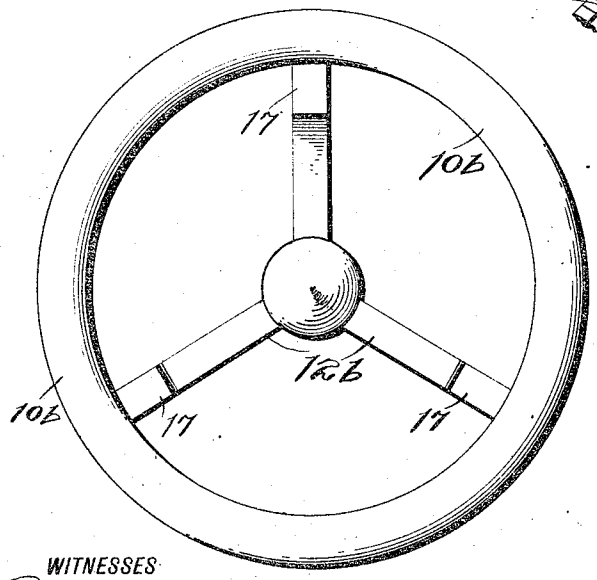
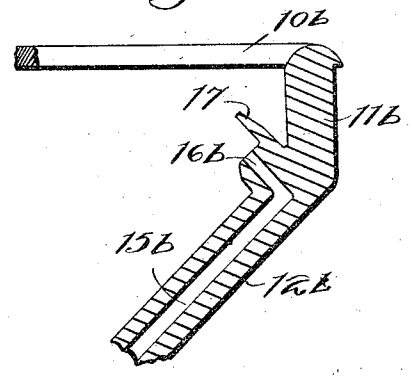


Fig. 7.



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UNITED STATES PATENT OFFICE.

ROBERT B. RODGERS, OF SANTA MONICA, CALIFORNIA, ASSIGNOR OF ONE-HALF TO HORACE M. REBOK, OF SANTA MONICA, CALIFORNIA.

DRINKING-FOUNTAIN.

1,290,785. Specification of Letters Patent. Patented Jan. 7, 1919.

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To all whom it may concern:

Be it known that I, ROBERT B. RODGERS, a citizen of the United States, and a resident of Santa Monica, in the county of Los Angeles and State of California, have made certain new and useful Improvements in Drinking-Fountains, of which the following is a specification.

My present invention relates generally to drinking fountains, and more particularly to a type of fountain capable of very general application, and of connection with any suitable water supply by various means of either permanent or temporary nature, including flexible hose, my object being the provision of a construction of this nature whereby to obviate all danger of contamination of the water supply and in this way prevent the spread of disease, as well as the dissemination of unclean drinking fluid.

As shown in the accompanying drawing, my invention is susceptible of various forms in its detailed construction and generically contemplates the discharge of several individual streams of water so directed with respect to one another as to meet at a given point and produce a bubble at the meeting point from which it will be easy to drink, the outlet orifices through which these streams are discharged being so located as to prevent the flow of fluid into or around the same from the drinkers lips and to protect the same from the accumulation of dirt and dust and other material calculated to contaminate the water supply.

In the accompanying drawings which illustrate the several forms of my invention, and forming a part of this specification:—

Figure 1 is a perspective view of my improved drinking fountain illustrating its preferred form.

Fig. 2 is a vertical section taken therethrough.

Fig. 3 is a detailed perspective view of the spray shield removed.

Fig. 4 is a top plan view of a modified form.

Fig. 5 is a partial vertical section therethrough.

Fig. 6 is a top plan view of another slightly modified form, and,

Fig. 7 is a partial vertical section through the form of Fig. 6.

Referring now to these figures, it will be noted that my invention contemplates the support of an upper annular guard ring 10 upon the upper angular ends 11, of radiating and upwardly diverging arms 12, these arms extending from a lower head 13, disposed substantially in the axial plane of the guard ring 10, and having a threaded socket 14 into which a threaded connecting member of any suitable type, either permanent or temporary in its nature may be secured to connect the head 13 with a suitable source of water supply.

The arms 12 are hollow, having channels 15 upwardly through which the water finds its way from the socket 14, and at their upper ends adjacent their angular extensions 11 these arms have upwardly and inwardly inclined discharge orifices 16, which are in communication with the upper ends of their channels 15 so as to discharge independent streams of water inwardly and upwardly, which streams will meet at a point substantially above the center of the guard ring 10 and there form a bubble, from which it is easy to drink.

In the form of the invention shown in Figs. 1 and 2, the upper extensions 11 of the arms 12 are more or less abruptly angular, and project inwardly and upwardly approximately at right angles to the said arms, so as to extend inwardly above the discharge orifices 16 and effectively protect the latter against falling water and thus from any water dropping from a drinker's mouth. From this it will be obvious that my invention provides against the danger of disease, communication to which those drinking fountains having unprotected discharge orifices are commonly subject.

In the form of the invention shown in Figs. 4 and 5, the upper angular portions 11^a of the arms 12^a having channels 15^a, as seen in Fig. 5, extend approximately in vertical relation, and in this form the guard ring 10^a is considerably widened so that its inner edge extends inwardly beyond the extensions 11^a to a point materially beyond the vertical plane of the discharge orifices 16^a. Thus, in this form the discharge orifices are protected by the upper guard ring alone instead of by the combined action of the guard ring 10 and the angular extensions 11 of the arms, as in Figs. 1 and 2.

In Figs. 6 and 7 the guard ring 10^b is similar to the guard ring 10 of Figs. 1 and 2, and the upper angular extensions 11^b of the

arms 12^b, as seen in Fig. 7, are similar to the extensions 11^a of the arms 12^a of the form shown in Figs. 4 and 5.

The discharge orifices 16^b of the form of Figs. 6 and 7, communicating with the channel 15^b, and the arms 12^b, are protected by inwardly and upwardly inclined extension lips 17, these extensions projecting from the arms 12^b at points adjacent the extensions 11^b thereof, and immediately above the said orifices.

By reference to Fig. 3, it will be noted that the shield 18 there shown, which is substantially in the form of an inverted frustum of a cone, may be utilized in connection with either of the forms of my invention previously described, being shown in place in connection with Fig. 1 alone however.

This shield may extend within the fountain against the inner faces of the several arms, as in Fig. 1, and may be secured in any suitable manner to the arms, the upper edge of the shield in this case having slots 19 at spaced points, through which the streams of drinking water from the discharge orifices of the arms may pass. However. a shield of similar shape may be utilized outside of and secured to the said arms in case it is necessary to extend the upper edge thereof above the guard ring.

It is obvious that in either of the forms of my invention, which I have thus fully described, I provide against the discharge of unclean drinking water and eliminate the danger of spreading of diseases, and that I accomplish these advantages as well as the formation of a bubble from which it is easy to drink, by a rigid structure which avoids all movable parts, is practically foolproof, and extremely simple and inexpensive and will be durable in use.

I claim:—

1. A drinking fountain comprising a head having a downwardly opening threaded socket for connection with a suitable source of water supply, supporting arms extending radially and inclined upwardly from the said head and provided with angular extensions at their upper ends, a guard ring carried by said extensions, said arms having longitudinal channels communicating at one end with the socket of the head, and having angular upwardly and inwardly inclined discharge orifices, the latter of which are located adjacent the said extensions of the arms and communicate with the other ends of the channels, for the purpose described.

2. A drinking fountain comprising a lower centrally disposed head and an upper guard ring, and having a plurality of upwardly inclined supporting arms connecting the head and the ring, and radiating from the former, said arms having upper angular portions adjacent to the ring and longitudinal fluid channels communicating at their lower ends with the head and being provided with angular discharge orifices communicating with the upper ends of the channels, and located adjacent to the lower ends of said angular portions for the purpose described.

3. A drinking fountain comprising a lower centrally disposed head having a socket, arms radiating from the head and inclined upwardly with respect thereto, a guard ring connected to the upper ends of the said arms, said arms having longitudinal channels communicating at the lower ends with the socket of the head, and upper angular discharge orifices communicating with the upper ends of the said channels, and a frusto conical shield supported against the said arms, for the purpose described.

4. A drinking fountain comprising a lower hollow central head, arms radiating from and inclined upwardly with respect to the said head and having longitudinal channels communicating at their lower ends with the hollow of the head, said arms having upwardly and inwardly inclined discharge orifices adjacent their upper end, communicating with the upper ends of the said channels, said arms also having upper inwardly projecting angular extensions above the said discharge orifices, and a guard ring connected to and supported by the said angular extensions of the arms, as described.

ROBERT B. RODGERS.