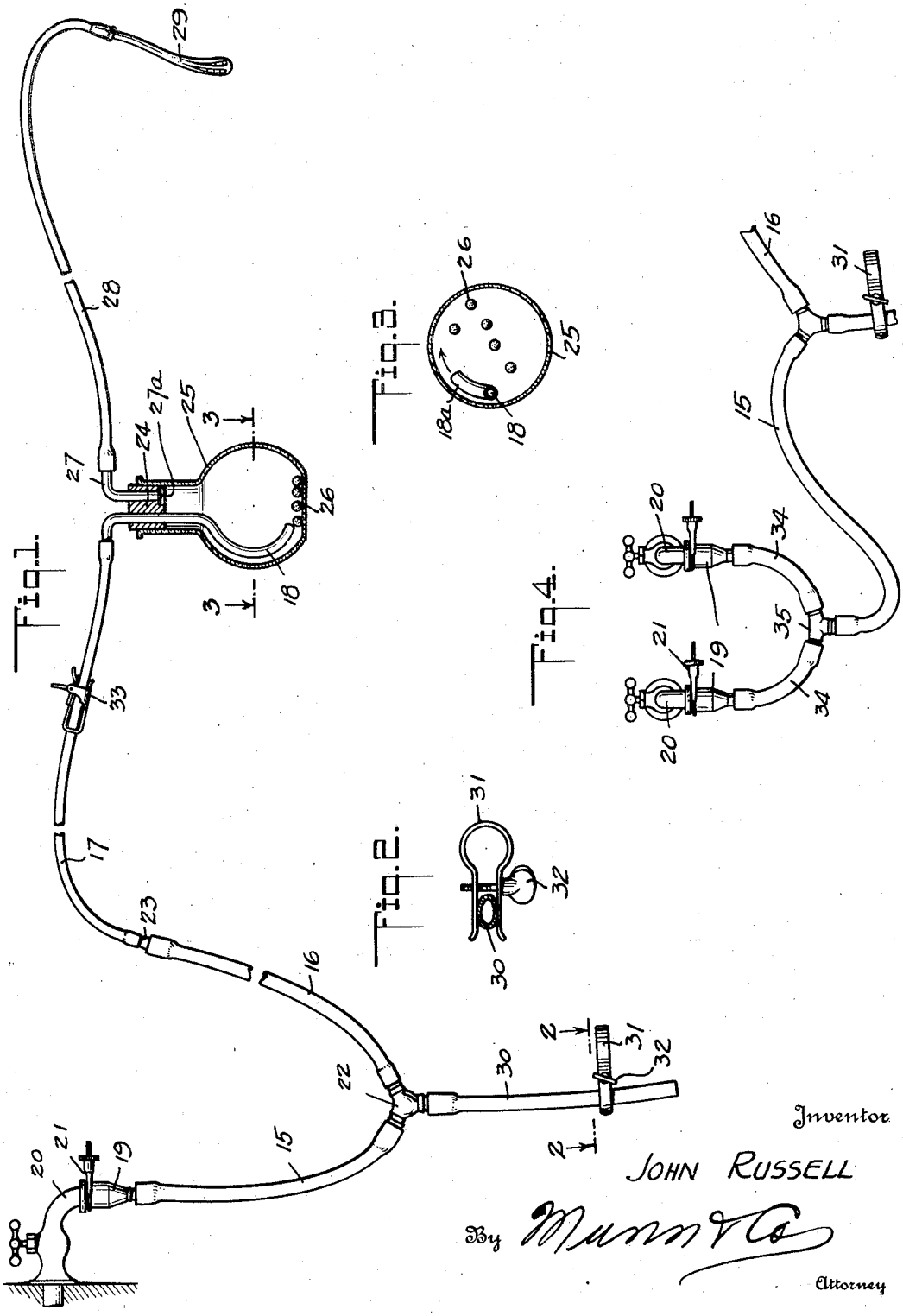
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J. RUSSELL

FOUNTAIN SYRINGE

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UNITED STATES PATENT OFFICE.

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FOUNTAIN SYRINGE.

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My invention relates to fountain syringes, and a purpose of my invention is the provision of a fountain syringe of extremely simple and durable construction which is readily applicable to one or two hydrant faucets to utilize the water and pressure thereof in applying medicaments interiorly of the body, my invention including means by which the water pressure can be regulated as desired, and any desired medicament used and thoroughly intermixed with the water before the solution is discharged from the syringe.

I will describe only one form of fountain syringe embodying my invention and will then point out the novel features thereof in claims.

In the accompanying drawings,

Figure 1 is a view showing in side elevation and partly in section one form of fountain syrange embodying my invention in applied position to a hydrant faucet;

Figure 2 is a transverse sectional view taken on the line 2—2 of Figure 1;

Figure 3 is a horizontal section taken on the line 3—3 of Figure 1;

Figure 4 is a view showing my fountain syringe modified to permit its adaptation to two hydrant faucets.

Referring specifically to the drawings, in which similar reference characters refer to similar parts in each of the views, my invention, in its present embodiment, comprises a water supply pipe made up of four sections indicated at 15 to 18, inclusive, the section 15 being provided at its free end with a compressible connector 19 adapted to receive the nozzle of the hydrant faucet 20 and secured thereto by a conventional form of constrictable band 21. The opposite end of the pipe section 15 is connected to the section 16 through the medium of a three-way connector 22 formed of metal or other suitable material, while the pipe section 16 is connected to the section 17 through a rigid pipe section 23. The section 17, in turn, is connected to the pipe section 18, the latter being formed of rigid material, such as glass or the like, and shaped to extend through a stopper 24 of a container 25, the latter being preferably formed of transparent material, such as glass. As clearly shown in Figure 1, the pipe section 18 extends downwardly into the container with its discharge end, indicated at 18ª (Figure 3), so disposed as to discharge water circumferentially within the container for the purpose of creating a whirling motion of the water to effectively dissolve pieces of medicament 26 disposed in the bottom of the container, and thereby form a medicinal solution which is discharged from the container through an L-shaped pipe 27 extending through the stopper 24 and connected to a flexible discharge pipe 28 having on its free end a dilating nozzle 29.

The three-way connection 22 is designed for the purpose of connecting a branch pipe 30 to the water supply pipe in a manner to permit the discharge from the water supply pipe of a portion of the water traversing the latter and in such manner that the quantity and pressure of water supplied to the container 25 can be regulated as desired. To this end the branch pipe 30 is provided with a valve 31 which, as clearly shown in Figure 2, is made up of a U-shaped body formed of resilient metal to provide parallel jaws capable of being contracted by a screw 32 to constrict the pipe 30 to various degrees whereby the amount of water discharged from the pipe can be controlled as desired.

In practice, the pipe section 15 is connected to the faucet 20 so that when the faucet is open water will be supplied to the water supply pipe and ultimately discharged into the container 25, the amount of water actually discharged being controlled in part by the valve 31 and in part by a valve 33 mounted on and operable to constrict the pipe section 17. As the water is discharged circumferentially in the container 25, the medicament 26 will be dissolved and thus intermixed with the water to form a solution which is ultimately discharged from the nozzle 29, as will be understood.

My invention provides a fountain syringe which, in its association with a hydrant faucet, utilizes the water pressure for syringing purposes and in a manner to cause a thorough intermixing of the water with a suitable medicament to form an antiseptic solution which possesses a pressure capable of being varied as desired to supply the solution interiorly to various parts of the body.

In Figure 4, I have shown a pipe section 15 with branch pipes 34 connected thereto by a three-way connector 35, the branch pipes 34 being each provided with a con-

strictable nozzle 19 and constricting means 21 whereby the two sections can be connected to two faucets 20. This construction permits the association of the syringe with a pair of hydrant faucets where one faucet delivers cold water and the other hot, and by regulating the two faucets it will be understood that water of the desired temperature may be supplied to the pipe section 15 and ultimately to the nozzle 29, so that the medicated solution discharged from the latter may be of the temperature desired.

It is to be noted that the inlet end of the pipe 27 is provided with a screen 27^a to prevent the passage of solid particles of the medicament into the pipe.

Although I have herein shown and described only one form of fountain syringe embodying my invention, it is to be understood that various changes and modifications may be made therein without departing from the spirit of the invention and the spirit and scope of the appended claims.

I claim as my invention:

1. A fountain syringe comprising a medicament container, a nozzle carrying discharge pipe, a pipe for supplying water to the container to mix with the medicament in the container and deliver a medicated solution to the discharge pipe, the second pipe being adapted for connection to a faucet, means for venting the water from the water supply pipe, means for manually controlling the venting means to regulate the pressure of water supplied to the container, and a valve between the venting means and the container for controlling the quantity of water supplied to the container and to permit cutting off of the water from the container to allow reloading of the latter with medicament.

2. A fountain syringe comprising a medicament container, a nozzle carrying discharge pipe, a pipe for supplying water to the container to mix with the medicament in the container and deliver a medicated solution to the discharge pipe, the second pipe having two branch pipes adapted for connection, respectively, to hot and cold water faucets, a vent pipe for venting water from the water supply pipe, means for manually controlling the vent pipe and to regulate the pressure of water supplied to the container, and a valve between the venting means and the container for controlling the quantity of water supplied to the container and to permit cutting off of the water from the container to allow re-loading of the latter with medicament.

3. A fountain syringe comprising a medicament container, a nozzle carrying discharge pipe of flexible material, a flexible pipe for supplying water to the container to mix with the medicament in the container and deliver a medicated solution to the discharge pipe, the second pipe having two branch pipes adapted for connection, respectively, to hot and cold water faucets, a flexible vent pipe for venting water from the water supply pipe in advance of the container, a valve for constricting the vent pipe to regulate the amount of water vented and normally tending to open, and a second valve on the water supply pipe for constricting the latter at a point between the vent pipe and container for the purpose described.

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