July 6, 1937. H. A. MULLETT 2,085,824

WASHFOUNTAIN

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FIG. 1.

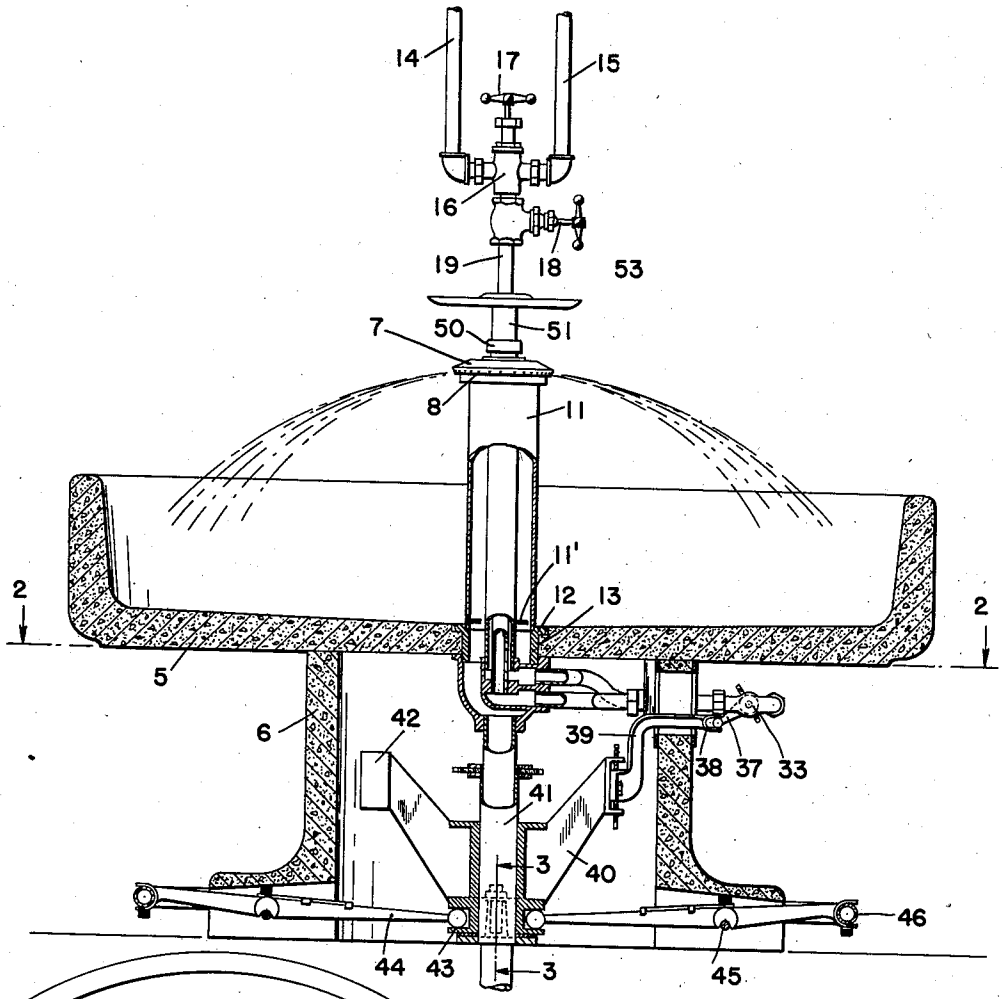
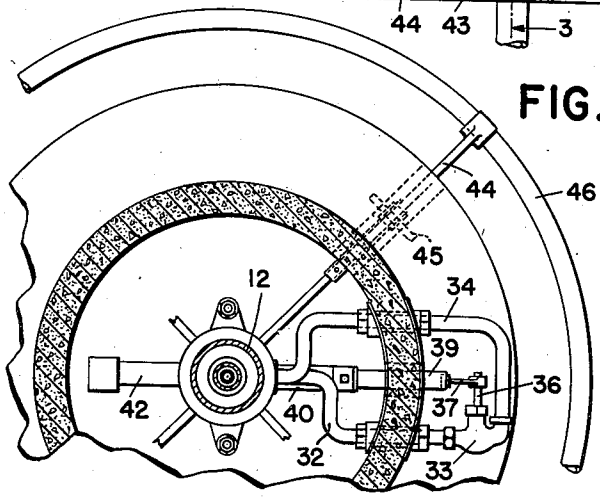


FIG. 2.



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FIG. 4.

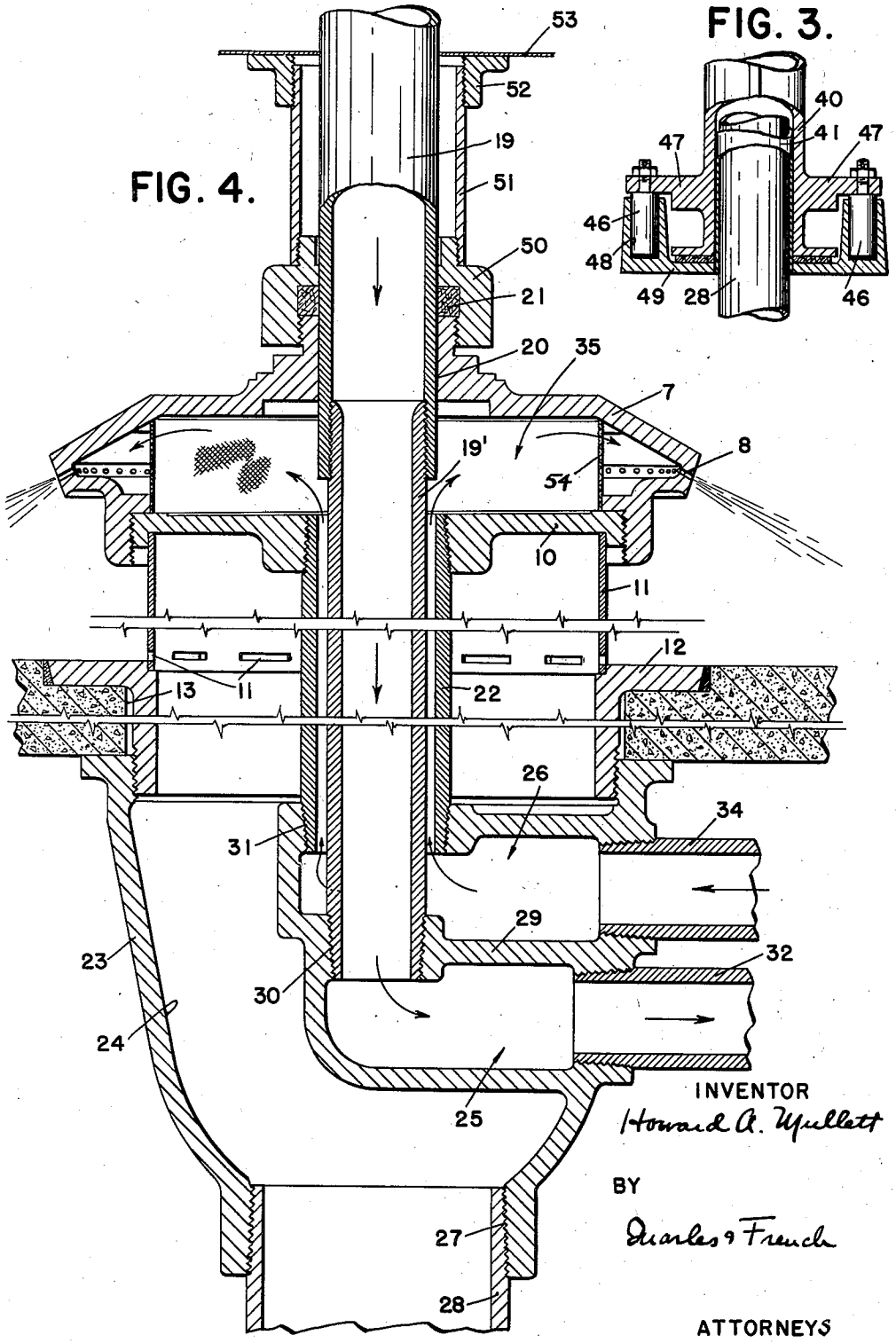


FIG. 3.

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UNITED STATES PATENT OFFICE

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WASHFOUNTAIN

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Application March 5, 1937, Serial No. 129,154

4 Claims. (Cl. 4—191)

This invention relates to improvements in foot controlled washfountains.

Sanitary washfountains such as shown in the prior U. S. Patents No. 1,574,700 to Schlesinger et al., dated February 23, 1926, and U. S. Patent No. 2,040,266 to Howard A. Mullett et al., dated May 12, 1936, permit a group of persons to wash at the same time from a fountain which discharges a plurality of radially extending sprays into the common wash basin. In these fountains the supply of water to the sprayhead is controlled by a foot operated valve operable from any position about the fountain and serving to conserve the supply of water. In this type of fountain as heretofore constructed the water supply has been brought in from below the fountain, and the object of the present invention is to provide a foot valve controlled group washfountain in which the water supply pipes may be brought in from the top of the fountain and the installation simplified and the costs of installation reduced.

A further object of the invention is to provide a washfountain of the type above described in which a single fitting serves both as a drain conduit and an inlet and outlet supply conduit for the water controlled by the foot operated valve.

The invention further consists in the several features hereinafter set forth and more particularly defined by claims at the conclusion hereof.

In the drawings:

Fig. 1 is a vertical sectional view through a washfountain embodying the invention;

Fig. 2 is a detailed sectional view taken on the line 2—2 of Fig. 1, parts being broken away;

Fig. 3 is a detailed sectional view taken on the line 3—3 of Fig. 1;

Fig. 4 is an enlarged detailed sectional view of certain of the parts shown in Fig. 1, parts being broken away.

Referring to the drawings, the numeral 5 designates a basin which may be of circular, semicircular, or other suitable form mounted on a support or pedestal 6.

The water may be supplied to the basin by any suitable spraying device or series of spray nozzles. By way of illustration I have shown the spraying head 7 similar to that of the prior U. S. Patent No. 1,592,159, dated July 13, 1926, to Louis Schlesinger et al., wherein the water is discharged through a series of radially and downwardly extending jet orifices 8 which are arranged about the periphery of the head and adapted to discharge outwardly and downwardly within the confines of the basin. This sprayhead has a base portion 10 and is supported in a central position above the bottom of the basin by a tubular member 11 interposed between said base portion and a spud 12 mounted in a recessed opening 13 in the bottom of the basin. The lower end of the member 11 is provided with a series of slots or openings 11' to provide a drain from the basin to the fitting 12.

A hot water pipe 14 and a cold water pipe 15 come in from above the basin and connect with a casing 16 of a suitable mixing valve 17 to furnish tempered water to a supply conduit having a regulating valve 18 therein and including a pipe 19 passing down through a central opening 20 in the sprayhead and having a gland packing 21 about the same at this point. This pipe 19 connects with another section of pipe 19', and a pipe 22 surrounds this last named section and is secured at its upper end to the base portion 10 of the head.

A fitting 23 is formed to provide a drain conduit 24 and water supply conduits 25 and 26, the upper end having threaded connection with the lower end of the fitting 12 and clamping the basin between it and said fitting 12, the lower end 27 being threaded for connection to a waste pipe 28, the conduits 25 and 26 extending laterally from the central portion of the fitting 23 and being parallel to each other and separated by a partition 29.

The lower end of the pipe 19' has threaded connection at 30 with the inner end of the conduit 25, and the lower end of the pipe 22 has a similar connection at 31 with the inner end of the conduit 26.

The conduit 25 connects by piping 32 with one side of a shut off valve 33 while piping 34 connects the other side of this valve with the conduit 26. Thus the tempered supply water is led from the top down through the spray head and drain fitting to the valve 33 and thence up through the drain to the sprayhead chamber 35.

The valve 33 may be of any suitable construction which, on rotation of the stem 36, will produce an opening or closing of the valve and is operated by a foot control mechanism including an arm 37 having an end which works in the slotted end 38 of an arm 39 adjustably secured to a main member 40 which in the case of a full circular fountain is vertically slidably mounted on a guide 41 secured to the drain pipe 28 and having a counter weighted arm portion 42. This member is generally similar to that of the prior Patent No. 1,574,700 and similarly connected by an

annular groove 43 with treadle levers 44 pivoted intermediate their ends at 45 and having one of their ends working in said groove and the other secured to a circular operating bar 46 whereby downward movement of said bar at any point will serve to raise the member 40 and arm 39 and thus swing the arm 37 to turn the stem 36 to open the valve, and release of pressure on said bar will permit the weighted member 40 to act on said arm 37 to close the valve.

In order to present too abrupt closure of the valve a dashpot mechanism has been incorporated in the present control mechanism comprising a pair of pistons 46 secured to oppositely disposed arms 47 on the member 40 and working in cylindrical chambers 48 formed in a base fitting 49.

The nut 50 for the gland packing 21 is here shown as carrying a tube 51 connected to the base 52 of a soap dish 53.

A screen 54 is shown as mounted in the chamber 35 of the sprayhead to prevent foreign matter from clogging the spray orifices.

In use the mixing valve 17 may be adjusted to regulate the desired mixture of hot and cold water, and the amount of water furnished to the sprayhead 7 is determined by the adjustment of the valve 18 while the shut-off valve 33 is opened and closed by the user's or users' operation of the treadle bar 46.

For semi-circular fountains the treadle operating mechanism shown in the Patent No. 2,040,266 may be used.

I desire it to be understood that this invention is not to be limited to any particular form or arrangement of parts except in so far as such limitations are included in the claims.

What I claim as my invention is:

1. In a group type washfountain, the combination of a basin, spraying means supported above the basin for directing water toward the outer portion of the basin, a foot-controlled valve below the basin for controlling the flow of water to said spraying means, a conduit for supplying water to the valve from a point above the basin and a conduit for supplying water from the valve to said spraying means, said conduits having concentric portions, said basin having a drain opening through which said concentric portions extend.

2. In a group type washfountain, the combination of a basin, spraying means supported above the basin for directing water toward the outer portion of the basin, a foot-controlled valve below the basin for controlling the flow of water to said spraying means, said basin having a drain opening, a drain fitting connected with said drain opening and having laterally extending water supply passages connected respectively to opposite sides of said valve, one of said passages being connected with a water supply above the basin, the other of said passages being connected with said spraying means.

3. In a group type washfountain, the combination of a basin, a spraying head mounted above the basin for directing water toward the outer portion of the basin, a foot-controlled valve below the basin for controlling the flow of water to said spraying head, said basin having a drain opening, a drain fitting connected with said drain opening and having laterally extending water supply passages connected respectively to opposite sides of said valve, water supply piping extending from above the basin through the spraying head to one of said passages, and piping concentric with said last named piping connecting the other of said passages with said spraying head.

4. In a washfountain of the type above described, the combination with a basin, a spraying means supported above the basin for directing water toward the outer portion of the basin, a valve controlling the flow of water to said spraying means, foot-operated mechanism connected to said valve for opening and closing the same including a weighted reciprocatory member, and dashpot means acting an said member to retard the closing of said valve.

HOWARD A. MULLETT.