April 28, 1925.

1,535,964

A. J. TIZLEY

FOUNTAIN

Filed April 17, 1923

2 Sheets-Sheet 1

Fig. 1.

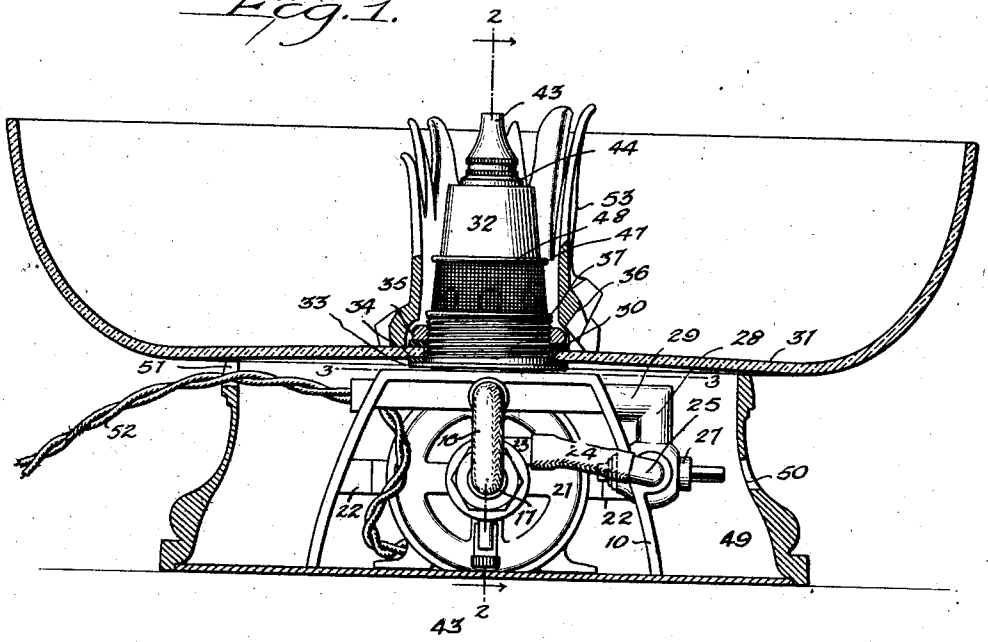
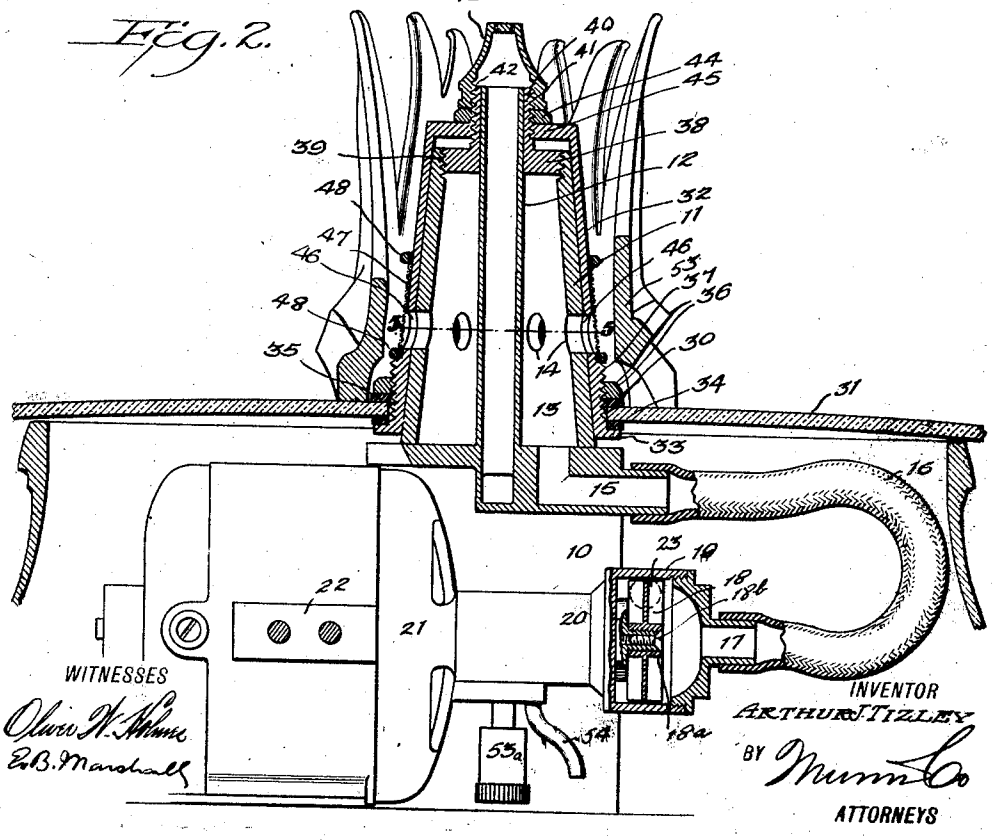


Fig. 2.



WITNESSES

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Fig. 3.

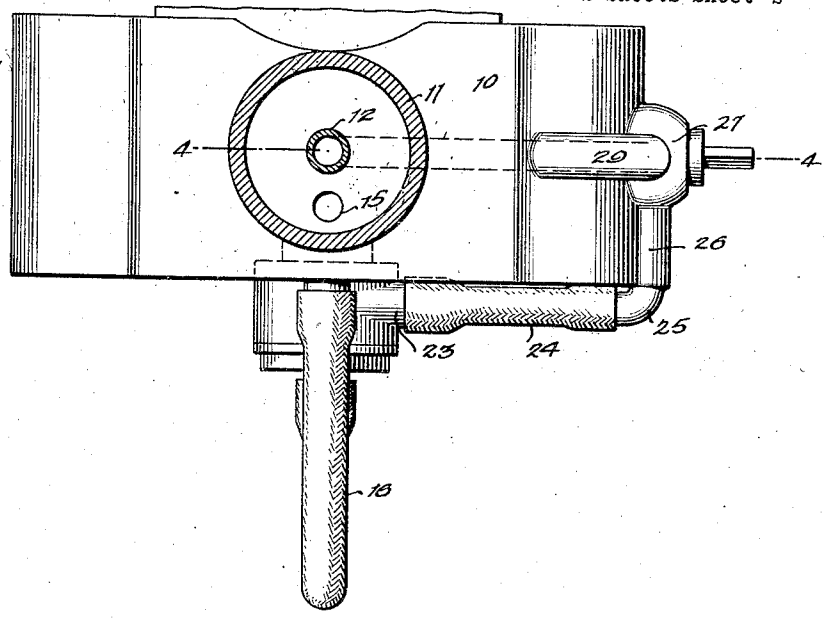


Fig. 4.

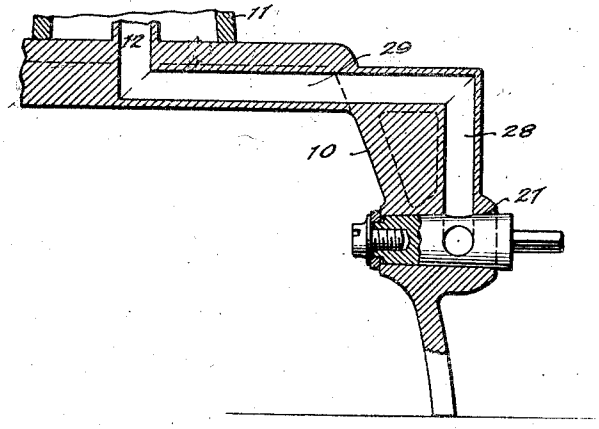
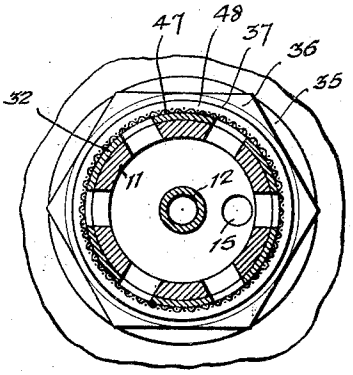


Fig. 5.



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Patented Apr. 28, 1925. 1,535,964

UNITED STATES PATENT OFFICE.

ARTHUR J. TIZLEY, OF BROOKLYN, NEW YORK, ASSIGNOR TO EDWD. F. CALDWELL & CO., INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

FOUNTAIN.

Application filed April 17, 1923. Serial No. 632,718.

To all whom it may concern:

Be it known that I, ARTHUR J. TIZLEY, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented a new and Improved Fountain, of which the following is a full, clear, and exact description.

My invention has for its object, to provide a fountain having means by which it may be conveniently secured in an opening in a bowl or basin and a pump with driving means therefor.

Another object of the invention is to provide as a unit, a fountain having a spraying outlet leading from a pump, an inlet leading to the pump from the bowl in which the unit may be introduced and a motor for driving the pump. This unit may be secured in an opening in a bowl by means provided when the fountain may be operated as may be desired.

Additional objects of the invention will appear in the following specification in which the preferred form of the invention is described.

In the drawings, similar reference characters refer to similar parts in all the figures in which,

Figure 1 is an elevation showing in section my invention as applied to a bowl;

Figure 2 is an enlarged sectional view on the line 2—2 of Figure 1;

Figure 3 is an enlarged sectional view on the line 3—3 of Figure 1;

Figure 4 is a fragmentary sectional view on the line 4—4 of Figure 3; and

Figure 5 is a sectional view on the line 5—5 of Figure 2.

By referring to the drawings it will be seen that a supporting member 10 is provided to which is secured by welding or other means a cylindrical vertically extending portion or member 11. Within this cylindrical extending member 11, there is an outlet 12 which also forms a part of the supporting member 10. The space between the outlet 12 and the cylindrical portion 11 of the support 10 serves as an inlet 13 which is fed from the ports or openings 14. The bottom of this inlet 13 extends horizontally at 15 in a portion of the support 10 and is connected by a tube or other similar means 16 with a pump inlet 17, communicating with the rotary pump 18 disposed in a casing 19 secured to a bearing 20 in which a shaft is disposed the shaft communicating with the rotary pump 18. The bearing 20 is secured to an electric motor frame 21 the motor serving to rotate the shaft on which the rotary pump is mounted. This motor frame 21 is secured by brackets 22 to the support 10.

The casing 19 has an outlet 23 which is connected by a tube or other similar means 24 with a port 25 communicating with the horizontally extending passage-way 26 leading to the valve 27 and from thence upwardly at 28 to the horizontal passage 29 which communicates with the outlet 12.

The valve 27 is provided to regulate the flow of a fluid from the pump to the outlet 12.

It will be understood that the support 10 together with the motor, pump, the cylindrical vertically extending portion 11 of the support and the outlet 12 form a complete unit which may be introduced into an opening 30 in a bowl or basin 31 and that leakage between the cylindrical portion 11 of the support and the bottom of the bowl or basin 31 may be prevented by any well known means.

I prefer to secure the cylindrical vertical portion 11 of the support 10 in the opening 30 in the following manner: A cylindrical or conical member 32 is provided which should be of the same shape as the cylindrical portion 11 so that the cylindrical portion 11 when ground will fit the cylindrical or conical member 32 and prevent any leakage therebetween.

This cylindrical or conical member 32 has at its bottom an outwardly extending flange 33, a gasket 34 being disposed between the said flange 33 and the bottom of the basin or bowl 31, a similar gasket 35 being disposed around the cylindrical or conical member 32 above the bottom of the basin or bowl and the gaskets 34 and 35 being pressed against the bottom of the basin or bowl 31 by means of the nut 36 which meshes with the thread 37 on the cylindrical or conical member 32. It will be understood that by this means any leakage between the cylindrical or conical member 32 and the bottom of the basin or bowl 31 is prevented.

The cylindrical vertical portion 11 of the support is provided with a cap 38 which is preferably secured to the cylindrical por-

tion 11 by threads 39. This cap 38 has an upwardly extending portion 40 with an outer thread 41 with which meshes an inner thread 42 on a nozzle 43, the nozzle serving to press a gasket 44 against an inwardly extending shoulder 45 on the cylindrical or conical member 32. It will be understood that by the means described, the vertically extending portion 11 of the support 10 will be held in position relatively to the cylindrical or conical member 32 and with the outlet 12 in position to communicate with the nozzle 43. The cylindrical or conical member 32 has ports 46 disposed at the ports 14. A cylindrical strainer 47 is disposed around the cylindrical or conical member 32 at the ports 46, this strainer 47 having rings 48 at its upper and lower edges the said rings serving to hold the body of the strainer in position, the lower ring 48 resting against the threads 37.

The support 10 is preferably disposed in a decorative cup or base 49 which will serve to prevent any leakage reaching the table or other piece of furniture on which the fountain is disposed and this base 49 also serves as a means of assisting in the support of the basin or bowl 31.

The base 49 should be provided with an opening 50 through which a key may be disposed to turn the valve 27 as may be desired and the base should also be provided with another opening 51 through which the wires 52 may be disposed which lead to the motor. An ornamental member 53 may be disposed around the cylindrical or conical member 32 as illustrated in Figures 1 and 2 of the drawings.

The rotary pump 18 is preferably mounted on extension 18^a of the shaft, the extension 18^a having a threaded opening in which a machine screw 18^b is disposed, the screw 18^b pressing against the hub of the rotary pump to hold the rotary pump in position to rotate with the shaft of the motor. A grease-cup 53^a is provided for the bearing 20 and a drip 54 is also provided for the said bearing to prevent any moisture from reaching the motor through the said bearing.

It will be understood that the motor frame with the motor may be readily freed from the brackets 22 and that the tube 16 may be freed from the inlet 17 and the tube 24 from the outlet 23 which makes it possible to remove the motor for repairs should this become necessary.

Having thus described my invention which I claim as new and desire to secure by Letters Patent is:

1. In a fountain a hollow member having means by which it may be secured to a bowl at an opening therein and provided with an inlet and a shoulder, a support having a vertically extending portion disposed within the hollow member and having an inlet at the first mentioned inlet and a threaded portion, an outlet extending upwardly from the support within its vertically extending portion and a nozzle having a thread meshing with the thread on the vertically extending portion which may be moved in the direction of the shoulder.

2. In a fountain a hollow member having means by which it may be secured to a bowl at an opening therein and provided with an inlet and a shoulder, a support having a vertically extending portion disposed within the hollow member and having an inlet at the first mentioned inlet and a threaded portion an outlet extending upwardly from the support within its vertically extending portion, a nozzle having a thread meshing with the thread on the vertically extending portion which may be moved in the direction of the shoulder, a motor driven pump secured to the support and means for connecting the pump with the outlet and with the vertically extending portion.

3. In a fountain a hollow member having means by which it may be secured to a bowl at an opening therein and provided with an inlet, a support having an extending portion and an outlet disposed therein, the extending portion fitting the hollow member and having an inlet at the first mentioned inlet, a cap secured to the top of the extending portion of the support and having a threaded portion at the outlet and a nozzle having a thread meshing with the threaded portion of the cap and pressing against the hollow member for securing the parts in place.

4. In a fountain a hollow member having means by which it may be secured to a bowl at an opening therein and provided with an inlet, a support having an extending portion and an outlet disposed therein, the extending portion fitting the hollow member and having an inlet at the first mentioned inlet, a cap secured to the top of the extending portion of the support and having a threaded portion at the outlet, a nozzle having a thread meshing with the threaded portion of the cap and pressing against the hollow member for securing the parts in place, a motor driven pump secured to the support and means for connecting the pump with the cylindrical portion of the support and with the outlet.

ARTHUR J. TIZLEY.