

Oct. 2, 1928.

1,685,830

T. SCHIDORSKY

WATER FOUNTAIN

Filed Dec. 13, 1926

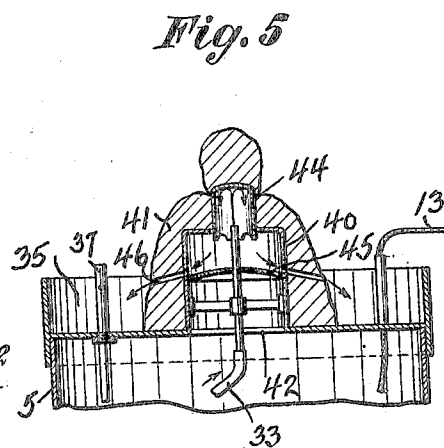
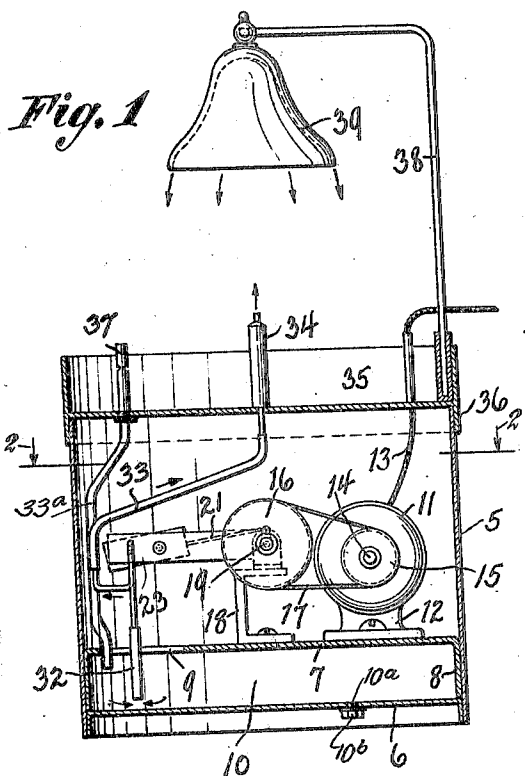
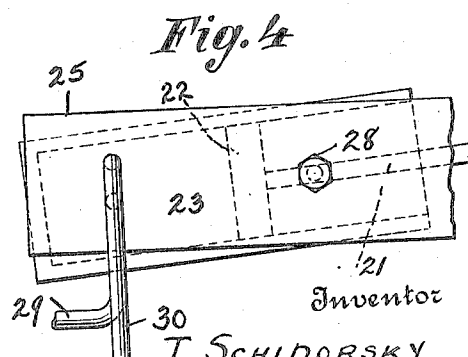
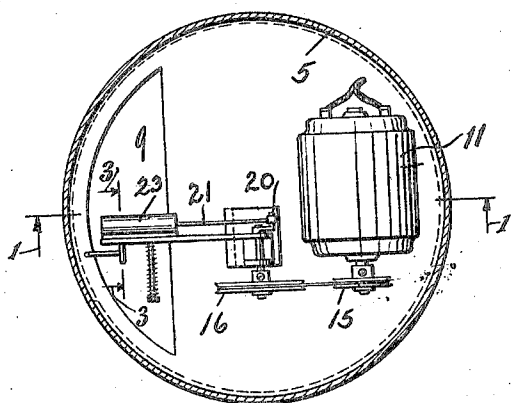
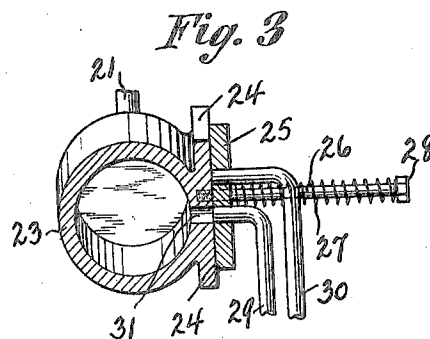


Fig. 2



Inventor

T. SCHIDORSKY,

By his Attorney
Aaron R. Applebaum.

Patented Oct. 2, 1928.

1,685,830

UNITED STATES PATENT OFFICE.

THEODORE SCHIDORSKY, OF NEW YORK, N. Y.

WATER FOUNTAIN.

Application filed December 13, 1926. Serial No. 154,609.

This invention relates to water fountains and more particularly to a novel and improved portable container wherein a definite volume or quantity of water or liquid may be pumped and sprayed to produce a natural effect.

One of the objects of my invention is to provide a container or receptacle with a concealed power driven pump constructed and arranged in relation to a water or liquid compartment whereby a definite volume or quantity of said water or liquid may be forced upwardly in a natural stream and sprayed on the top of the container or receptacle and returned to said compartment to complete the cycle.

Another object of my invention is to construct a portable fountain having a motor driven pump arranged in proximity to a concealed water compartment located in the bottom of a receptacle whereby the water may be forced upwardly in a continuous stream, sprayed over a definite area in the top of the receptacle and subsequently returned to the water compartment producing a novel mechanical, ornamental and natural effect for different purposes.

To enable others skilled in the art to more fully comprehend the underlying features of my invention that they may embody the same in the many practical advantages for which it is intended and to the various uses and purposes to which it is capable, reference is had to the accompanying drawing showing a preferred embodiment thereof, wherein

Fig. 1 is a vertical sectional view taken on the line 1—1 of Fig. 2.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a detail view partly in section of the pump cylinder taken substantially on the line 3—3 of Fig. 2.

Fig. 4 is a detail view showing the oscillating pump cylinder and the feed conduits or pipes.

Fig. 5 is a partial, sectional view of a modified form of water spray for the top of the receptacle.

Referring now to the drawings wherein like reference characters designate corresponding parts throughout the several views, 5 designates an annular casing or receptacle having a flanged bottom 6 soldered or connected thereto in any suitable manner. Within the casing or receptacle, I provide

a false bottom 7 having a vertical flange 8 of considerable height and provided with a segmental opening 9 for the introduction and passage of water or other liquid into the compartment 10 thus formed between the false bottom and the lower portion of the casing or receptacle. An outlet or drain pipe 10^a may be suitably threaded and provided with a threaded cap 10^b which may be removed when desired to drain the water compartment without removing the false bottom.

For convenience of assembly, the false bottom is adapted to be removably positioned within the casing to support a small motor 11 on a base 12 and which motor may be driven through any outside source of power from an electric socket, (not shown) a cord conductor 13 being connected to the motor in the manner well understood. On the motor shaft 14 is a pulley wheel 15 which cooperates with a second pulley wheel 16 and endless pulley 17, also supported on the false bottom by means of a bracket or support 18. The last mentioned pulley wheel communicates motion and power to an auxiliary or driven shaft 19 mounted in suitable bearings, said shaft having a crank 20 to which is connected a piston rod 21. The piston rod and piston head 22 operate in an oscillating pump cylinder 23 provided with side flanges 24 held in contact with a flat plate 25 supported on the bracket or support 18 by means of a horizontal rod 26 being held in frictional contact therewith by a coiled spring 27 retained thereon by the nut 28. Passing through the flat plate 25 through two openings are the conduits 29, 30, the conduit 30 being adapted to register with an opening 31 in the pump cylinder upon each oscillation thereof by the crank 20 which draws the liquid up through that portion of the conduit 32 extending within the water compartment and forces it through the bent pipe 33 where it is directed in a jet through the pipe fitting 34. An overflow flexible pipe 33^a leads from a pipe fitting 37 to the bottom chamber 10 whereby a continuous circulation of water is accomplished.

The above structure and mechanism is located within the body of the receptacle or casing, the top of which is provided with an open, annular water tank 35 with a depending flange 36 which fits over the top of the said receptacle or casing. When the

said water tank 35 is filled, the pipe fitting 37 may be unthreaded and the water flows or trickles down into the lower compartment 10 to be pumped upward as above described to complete the cycle. In this connection it may be pointed out that the capacity of the water tank and lower compartment 10 is substantially the same so that an overflow is avoided.

10 In order to produce the fountain or spraying effect, I have provided the apparatus with a standard 38 extending above and over the water tank and which supports a bell-shaped hollow receptacle 39 open at its bottom and located directly over the fitting 34. Consequently, it will be seen that as the water is forced upwardly into the receptacle 39 it will flow back and downwardly into the water tank in a shower or spray and will
20 return to the lower compartment as above described.

In the form of the invention shown by Fig. 5, the tank 35 is provided with a different type of spraying device comprising a
25 hollow shell 40 positioned within an ornamental object 41 such as a mound and disposed over the opening 42 of the tank. A pipe fitting 43 is adapted to direct the jet of liquid to the top portion 44 of the hollow shell where the water may flow to the curved plate 45 and through suitable openings 46 radially of the mound on and within the tank. This effect is quite natural particularly when the mound is designed
35 and ornamented.

While I have shown and described my invention with some degree of particularity, it will be recognized by those skilled in the art that many changes may be made in the
40 specific details shown and described. I therefore do not wish to be limited and restricted to the exact mechanical details here illustrated but reserve the right to make such changes and modifications in the structure as may fairly fall within the scope

of the subject matter now being claimed. Having shown and described my invention what I claim as new and desire to secure by Letters Patent is:

1. A portable fountain of the class described comprising a casing having a removable false bottom forming a liquid compartment with the bottom of said casing, a drainage outlet for said compartment, a motor and a pump driven from the motor
50 mounted on said false bottom, said motor, pump and false bottom being removable as a unit, a removable liquid tank interfitting with the top of the casing and supported thereby, conduits connecting the intake of the pump with said liquid compartment and the outlet of the pump through the top of
60 said water tank whereby the liquid may be forced in a jet above said tank, and a return conduit from the said liquid tank to the bottom compartment.

2. A portable fountain of the class described comprising a casing having a removable false bottom forming a liquid compartment with the bottom of said casing, a drainage outlet for said compartment, a motor and a pump driven from the motor
70 mounted on said false bottom, said motor, pump and false bottom being removable as a unit, a removable liquid tank interfitting with the top of the casing and supported thereby, conduits connecting the intake of the pump with said liquid compartment and the outlet of the pump through the top of
75 said water tank whereby the liquid may be forced in a jet above said tank, and a return conduit from the said liquid tank to the bottom compartment, a standard supported by the liquid tank and a belt shaped member suspended from the standard in the
80 path of the jet for producing a spray within the said tank.

In testimony whereof I affix my signature.

THEODORE SCHIDORSKY.