M. I. WHEELER.

BATHING POOL.

APPLICATION FILED JUNE 20, 1921.

1,438,800. Patented Dec. 12, 1922.

Fig. 1.

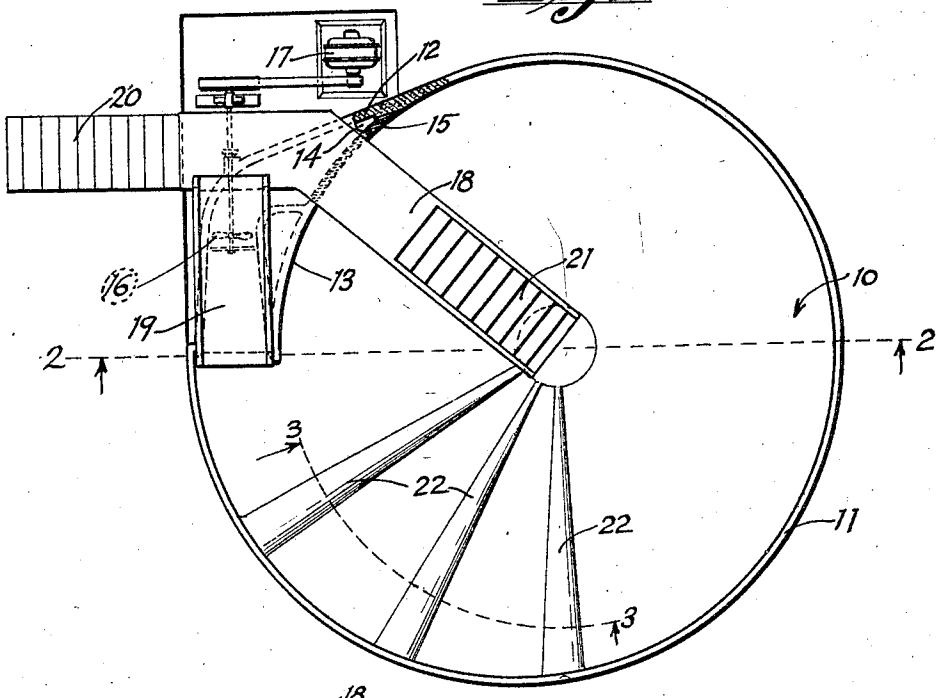

Fig. 2.

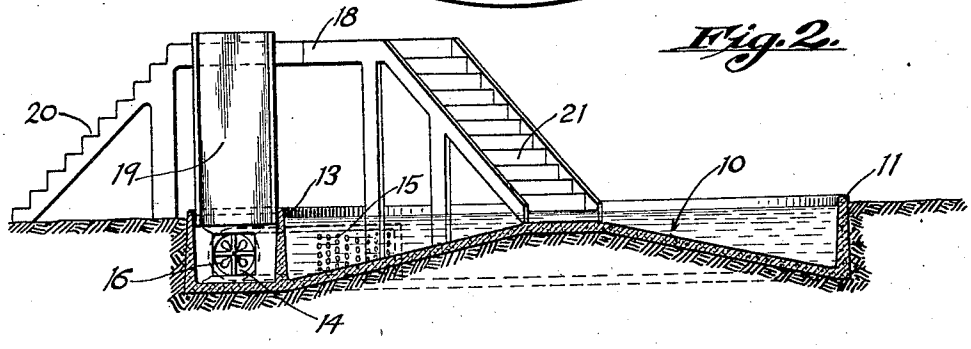

Fig. 3.

Inventor

MILTON I. WHEELER.

BY Hazard & Miller

Attorneys.

Patented Dec. 12, 1922. 1,438,800

UNITED STATES PATENT OFFICE.

MILTON I. WHEELER, OF LOS ANGELES, CALIFORNIA.

BATHING POOL.

Application filed June 20, 1921. Serial No. 479,040.

To all whom it may concern:

Be it known that I, MILTON I. WHEELER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Bathing Pools, of which the following is a specification.

My invention relates to a bathing pool, the principal object of my invention being to construct the pool so that the body of water therein is given a whirling movement, so that bathers or occupants of the pool are carried around within the pool by the current of whirling water thus providing amusement for the users of the pool, and which amusement feature is enhanced by the provision of a chute or slide that is adapted to be traversed by the users of the pool, and which will direct them into the whirling current of water.

A further object of my invention is to provide simple and efficient means for imparting to the whirling body of water an undulatory or wave-like motion.

With the foregoing and other objects in view, my invention consists in certain novel features of construction and arrangement of parts that will be hereinafter more fully described and claimed and illustrated in the accompanying drawings, in which:

Figure 1 is a top plan view of a bathing pool embodying the principles of my invention.

Fig. 2 is a cross section taken approximately on the line 2—2 of Fig. 1.

Fig. 3 is a detail cross section taken approximately on the line 3—3 of Fig. 1.

The form of pool illustrated in the accompanying drawings includes a bottom 10 preferably composed of concrete or like water proof material, and said bottom being surrounded by an upright wall 11 thereby forming a shallow structure that is adapted to contain a substantial volume of water.

The pool, as illustrated, is substantially round or circular when viewed in plan, although this particular form is not essential, inasmuch as the structure might be oval or polygonal in outline. Further, the bottom 10 of the pool may be highest at its center and gradually increase in depth toward the retaining wall 11, as illustrated, or said bottom may be substantially flat or slightly inclined from one side to the other.

A relatively short portion of the wall 11 is extended outward, as designated by 12, and arranged within the pool, and spaced apart from this portion of the wall is a substantially curved partition 13 thereby forming a chamber 14, one end of which is open and communicates directly with the space within the pool adjacent to the wall 11 thereof. Formed through the partition 13 adjacent to the point where the same unites with the outwardly projecting portion 12 of the retaining wall 11, is a series of relatively small openings 15 which permit the ready passage of water from the main chamber of the pool into the rear end of chamber 14.

Disposed within the chamber 14 at a suitable point to the rear of its open forward end is a water current producing device 16 that may be of any desired form, for instance a centrifugal pump, or a bladed impeller, and said current producing apparatus being operated in any suitable manner, preferably by means of a motor 17 that is located externally of the tank or pool structure.

Disposed above the rear portion of the chamber 14 that is occupied by the current producing device, is an elevated platform 18, and leading downwardly therefrom into the space within the pool immediately above and in front of the mouth or open end of chamber 14, is a chute or inclined surface 19 through which the bathers or users of the pool may slide downwardly and thus enter the water within said pool at a point where it forcibly emerges from chamber 14.

If desired suitable steps 20 may lead upwardly to platform 18 from the exterior of the pool, and a series of steps 21 may be arranged between the elevated center of the bottom of the pool and said platform. Suitable means may be arranged on the bottom 10 of the pool to impart undulatory movement to the whirling body of water therein. such means preferably taking the form of radially disposed ribs, such as 22, that may be formed on the bottom 10 at suitable distances away from the open end of chamber 14.

As pump or impeller 16 is operated, water will be forced forwardly through the open end of chamber 13 thereby setting up and maintaining whirling movement of substantially all of the water within the pool, and which movement or current of the water naturally follows the retaining wall 11 of the pool structure and gradually decreases in

force as it reaches the rear portion of the partition 13, and which rear portion is perforated in order to permit the water to enter the rear portion of chamber 14 and be drawn forwardly therethrough by the pump or impeller 16.

The bathers enter the pool by traversing the chute or slide 19, the lower end of which terminates at a point immediately above and in front of the open forward end of chamber 14, and at which point the current of the whirling water within the pool has the greatest force.

Upon entering the swiftly moving water the bathers are carried around with the current and which latter is given wave-like motion in passing over the ribs or projections 22, and thus a novel and pleasing pastime is provided for the bathers.

Upon reaching that portion of the pool that is opposite to the chamber 14 through which the water is forced by impeller 16, the diminished flow or current of the water will permit the bathers to walk to the relatively shallow central portion of the pool, and by ascending steps 21 they may pass to the upper end of the slide or chute 19 and again enter the pool by traversing said chute or slide.

While I have shown and described the means for imparting movement to the water located adjacent to the edge of the body of the water, it will be understood that the water impelling or moving means may be located at any point in said body of water, for instance at or near the center thereof, and that said impelling means may take any suitable form, either a bladed wheel or jets of water or air.

The arrangement of the slide with relation to the water impelling means is such as to afford safety for persons entering the pool through the slide, for as they pass into the swiftly moving water at the lower end of the slide, they are instantly carried away from said slide thereby eliminating the possibility of injuries resulting from contact between a person traversing the slide and a person in the water adjacent to the lower end thereof. In other words, the swiftly moving water instantly carries the bathers away from the lower end of the slide so that it will be impossible for them to be struck by persons entering the pool through the slide.

A bathing pool of my improved construction is relatively simple, may be made in various sizes and shapes to suit conditions and requirements, and provides a novel form of entertainment for its users.

It will be readily understood that minor changes in size, form and construction of the various parts of my improved bathing pool may be made and substituted for those herein shown and described without departing from the spirit of my invention, the scope of which is set forth in the appended claims.

I claim as my invention:

1. In a bathing pool, a substantially circular container, the bottom of which gradually inclines from the outer edge of the container to the center thereof, an elevated platform and a series of steps leading from the raised center of the bottom of said container upwardly to said platform.

2. In a bathing pool, a substantially circular container, the bottom of which gradually inclines from the outer edge of the container to the center thereof, an elevated platform, a series of steps leading from the raised center of the bottom of said container upwardly to said platform, means arranged tangentially to the edge of said container for imparting whirling movement to the body of water within said container, and a slide leading from the elevated platform downwardly into said container adjacent to its edge.

3. In a bathing pool, a container having a substantially circular retaining wall, the bottom of which container gradually inclines from said retaining wall toward the center and means for imparting impelling force to the water within the pool adjacent the edge thereof whereby whirling motion is imparted to substantially all of the water within the container.

4. In a bathing pool, a container having a substantially circular retaining wall, the bottom of which container gradually inclines from said retaining wall toward the center, and an arched passageway leading from the elevated center of the container to a point on the exterior of said container.

5. In a bathing pool, a container having a substantially circular retaining wall, the bottom of which container gradually inclines from said retaining wall toward the center, an arched passageway leading from the elevated center of the container to a point on the exterior of said container, and a chute leading from the upper portion of the arched passageway downwardly into said container.

6. A bathing pool comprising a main chamber, a relatively short chamber tangentially arranged at the side of said main chamber, both of which chambers are adapted to contain water, means within the secondary chamber for effecting a forcible flow of water through said secondary chamber and ribs on the bottom of the main chamber in front of said relatively short chamber.

7. A bathing pool comprising a main chamber, a relatively short chamber tangentially arranged at the side of said main chamber, both of which chambers are adapted to contain water, means within the secondary chamber for effecting a forcible

flow of water through said secondary chamber, ribs on the bottom of the main chamber in front of the short chamber, and a slide leading into the main chamber of the pool at a point adjacent to the forward end of the secondary chamber and to the rear of said ribs.

8. A bathing pool having a curved retaining wall, means within said pool and disposed tangentially with respect to the curved wall thereof for imparting impelling force to the water within said pool whereby whirling motion is imparted to substantially all of the water within said pool and a series of radially disposed ribs on the bottom of the pool in front of said impelling force imparting means.

9. In a bathing pool, a substantially circular container, an elevated platform, a series of steps leading from the center of the container and upwardly to the platform, means arranged tangentially to the edge of the container for imparting whirling movement to the body of water within the container, and a slide leading from the platform downwardly into said container adjacent the edge thereof.

10. In combination, a bathing pool substantially circular in form having a relatively deep portion at its edge, means arranged tangentially of the pool edge and communicating with the deep portion for imparting whirling movement to the body of water within the pool, and an inclined slide positioned above the pool at the deep portion thereof.

11. In combination, a bathing pool substantially circular in form having a relatively deep portion at its edge, means arranged tangentially of the pool edge and communicating with the deep portion for imparting whirling movement to the body of water within the pool, and an inclined slide positioned above the pool and having its lower end disposed adjacent said means so that a person moving down the slide will enter the deep portion of the pool where the whirling motion is greatest.

12. A bathing pool having a spirally disposed relatively deep portion at the edge thereof, a chamber in circuit communication with one end of the portion, and means within the chamber for creating a current in the body of water contained in the pool outwardly from the chamber to the deep portion.

13. A bathing pool having a spirally disposed and relatively deep portion at the edge thereof, and means for creating a current in the body of water contained in the pool through the deep portion.

14. A bathing pool having a spirally disposed and relatively deep portion at the edge thereof, and means for creating a current in the body of water contained in the pool through the deep portion from the outer end thereof to the iner end.

15. A bathing pool having a spirally disposed and relatively deep portion at the edge thereof, and means in tangential communication with the outer end of the portion for creating a current in a body of water contained in the pool through the deep portion.

16. In combination, a bathing pool having a relatively deep portion at its edge, means arranged tangentially of the pool edge and communicating with the deep portion for imparting whirling movement to the body of water within the pool, and an inclined slide positioned above the pool at the deep portion thereof.

17. In combination, a bathing pool having a relatively deep portion at its edge, means arranged tangentially of the pool edge and communicating with the deep portion for imparting whirling movement to the body of water within the pool, and an inclined slide positioned above the pool and having its lower end disposed adjacent said means so that a person moving down the slide will enter the deep portion of the pool where the whirling motion is greatest.

In testimony whereof I have signed my name to this specification.

MILTON I. WHEELER.