United States Patent

[11] **3,585,960**

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[54] **WATER CYCLE**
1 Claim, 4 Drawing Figs.

[52] **U.S. Cl.** **115/23**
[51] **Int. Cl.** **B63h 16/12**
[50] **Field of Search** 115/23, 22.3, 50; 9/25

[56] **References Cited**

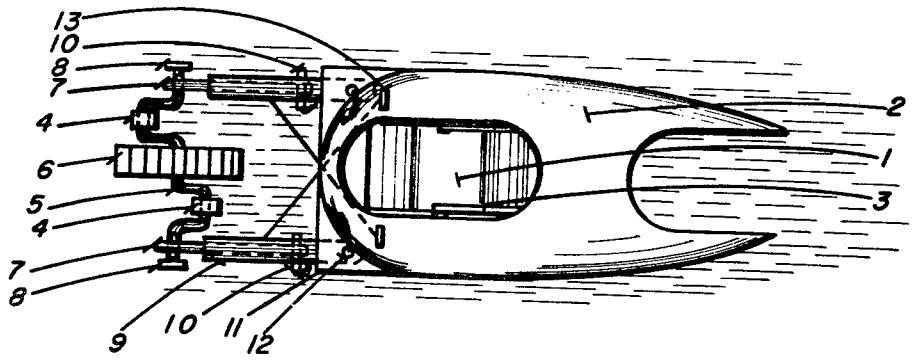
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Primary Examiner—Andrew H. Farrell

ABSTRACT: This invention relates to a new manually propelled watercraft with a hull either solid or hollow to act as a pontoon and platform with a paddle wheel, to provide a means for propelling the watercraft, detachably secured to the hull by means of two so spaced arms attached to the hull by means of laterally spaced pivot pins thus allowing horizontal movement of the arms thus providing one means of guidance.

Another means of guidance is accomplished with ropes or wires attached to either a rudder at the aft end of the hull or to each arm at the forward part of the hull and running through the hull to the operator.



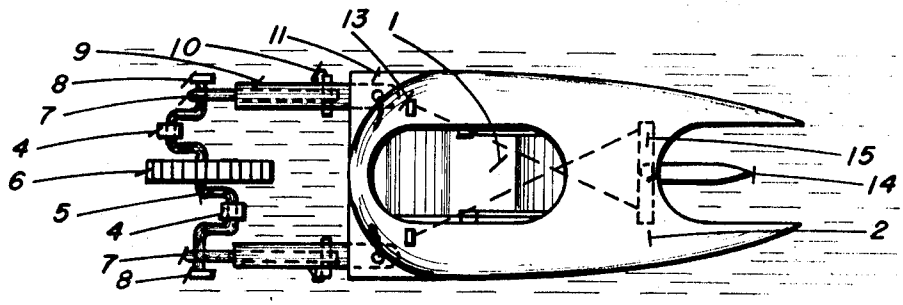


fig. IV

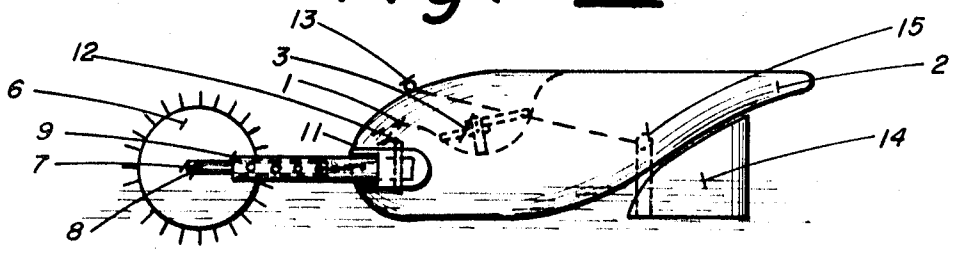


fig. III

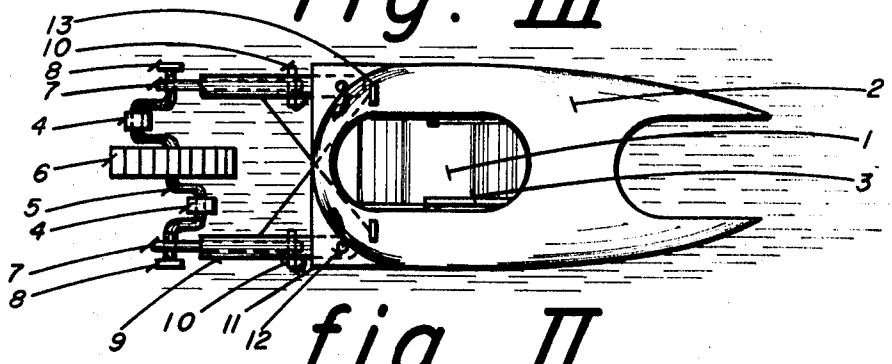


fig. II

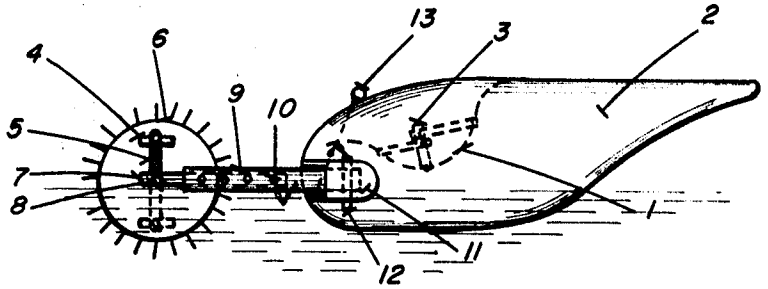


fig. I

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WATER CYCLE

The new Water Cycle; of which all parts are made of any type of floatable material such as plastic, wood, styrofoam, nylon, is safe and for all age groups, requires no swimming ability, and may be used in any body of water.

With the above and other objects in view as may appear hereinafter reference is drawn to the accompanying drawing in which:

FIG. 1 is the front view of the Water Cycle with the tope or wire, connected to the arms of the Water Cycle, steering mechanism.

FIG. II is the top view of the Water Cycle with the rope or wire, connected to the arms of the Water Cycle, steering mechanism.

FIG. III is the front view of the Water Cycle with the rope or wire, connected to a rudder of Water Cycle, steering mechanism.

FIG. IV is the top view of the Water Cycle with the rope or wire, connected to the rudder of the Water Cycle, steering mechanism. FIGS. I and II are of one type model of the Water Cycle and FIGS. III and IV are of another type model of the Water Cycle.

The Water Cycle operation is as follows:

The operator shall board the Water Cycle in a position desired on the seat **1**, made of any floatable material preferable of molded plastic or nylon webbing on light alloy metal frame, mounted on the flotation collar **2**, made of any floatable material preferable of molded plastic or styrofoam shaped in any desired form such as a boat, plane, duck, fish, or any pleasable form, and adjusts the seat **1** to a comfortable position with the adjusters **3**, made of a light weight metal or molded plastic. The Water Cycle is now ready for operation.

The operator shall now place the feet or arms, depending on the desired position selected, on the peddles **4**, made of molded rubber or molded plastic, mounted on the shaft **5**, made of light weight metal or plastic, and pump the peddles **4** which turns the shaft **5** which turns a paddle wheel **6**, made of any floatable material such as molded plastic or styrofoam, mounted on the shaft **5**.

The shaft **5** is mounted through a hole in the extension arm **7**, made of molded plastic, with caps **8**, made of molded plastic, mounted to the end of the shaft **5** to hold the shaft **5** in place.

The extension arm **7** is for adjustment to the length of the operators arms or legs and is mounted in the hollow arm **9**,

made of molded plastic. The operator adjusts the extension arms **7** and locks them in place in the arm **9** with locking pins **10**, made of solid plastic. The arms **9** are mounted in the swivel housing **11**, made of moulded plastic moulded to the flotation collar **2**. The swivel pins **12**, made of solid plastic, hold the arm **9** in place. Thus the whole front assembly parts **4** thru **10** move freely from side to side.

To guide the Water Cycle there are three methods that can be used. The first method can be used in any model of the Water Cycle such as shown in either FIG. I and II or FIG. III and IV and is accomplished by applying pressure to the side of either the extension arm **7** and/or the arm **9** in the direction desired, or pressure may be applied on the shaft **5** and/or the peddles **4** in the direction desired, with either the operators arms, hands, legs, or feet depending on the selected position of the operator.

The next two methods for guiding the Water Cycle are found on different models as shown on either FIGS. I and II or FIGS. III and IV.

The second method as shown on FIGS. I and II is accomplished by pulling on ropes or wires **13**, made of nylon or piano or spring wire, which are attached to the arms **9**. The operator pulls the rope or wire **13** on the side opposite the desired direction the operator select to go.

The third method as shown on FIGS. III and IV is accomplished by pulling on ropes or wires **13**, made of nylon or piano or spring wire, which is attached to the rudder **14**, made of molded plastic or styrofoam and connected to the flotation collar **2** with the rudder pin **15** made of solid plastic. The operator pulls the rope or wire **13** on the side opposite the desired direction the operator selects to go.

While a particular embodiment of this invention has been shown and described, it is not intended to limit the same to the exact details of the construction and materials set forth, and it embraces such changes, modifications and equivalents of the parts and their formation and arrangements as come within the purview of the appended claim; be it known that the claim set forth by the said inventor, Shirley Dolores Shuler is as follows:

I claim:

1. A manually propelled watercraft having a hull, a paddle wheel detachably secured to said hull by means of a pair of arms which are attached by a pair of laterally spaced pivot pins to said hull to permit a horizontal swinging movement of said arms and paddle wheel relative to said hull.