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SWIMMING DEVICE

Filed August 24, 1925

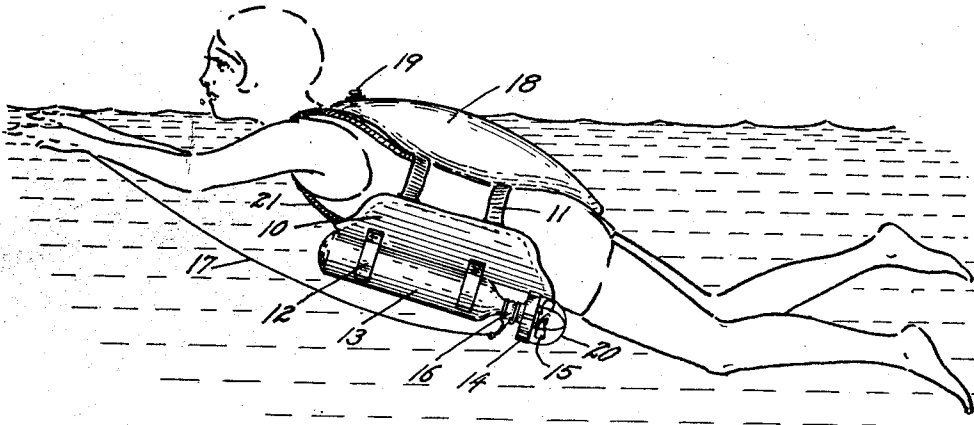


FIG 1

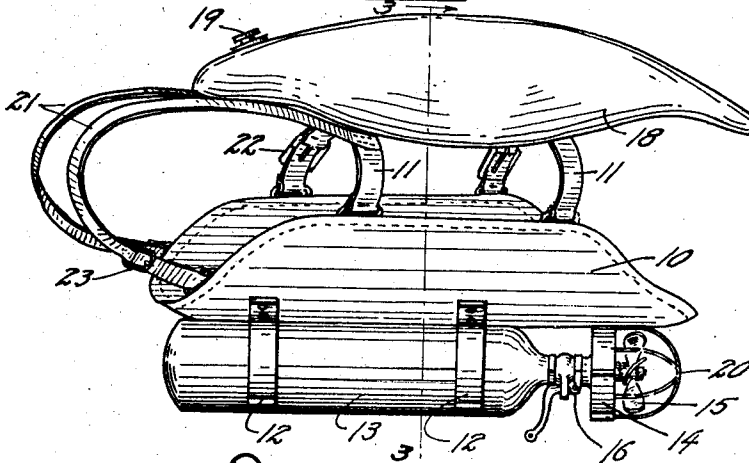


FIG 2

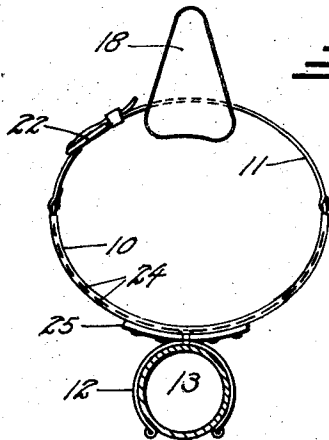


FIG 3

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SWIMMING DEVICE.

Application filed August 24, 1925. Serial No. 51,935.

This invention relates to a device for propelling a bather through the water, and has for its principal object the provision of a self actuated power device which may be worn by the bather and which will act under his control, to propel him through the water and support him on the surface thereof.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:—

Fig. 1 is a view illustrating the invention in use.

Fig. 2 is a detail view of the entire device.

Fig. 3 is a vertical section through the same, taken on the line 3—3, Fig. 2.

The invention comprises a breast plate 10 adapted to be held over the front of the bather by means of body straps 11. Carried in spring clips 12, upon the breast plate 10, is a pressure container 13 to which is attached an expansive fluid turbine 14 connected to drive a propeller wheel 15.

The container 13 may contain compressed air, liquid carbon dioxide gas, or similar pressure means. The flow of gas to the turbine 14 is controlled by means of a valve 16 operated by the bather through the medium of a cord 17.

To support the weight of the apparatus while the bather is standing, shoulder straps 21 are provided. Secured to the body straps along the bather's back is a float 18, formed of sheet rubber or air tight fabric, which is inflated through a filling valve 19.

The turbine 14 may be of any of the usual expansive fluid types such as a bladed rotor driven by means of an air blast from a nozzle or a rotating pressure chamber type. The air is discharged directly into the water. A protective wire guard 20 is placed around the propeller 15.

The container 13 may be quickly removed from the spring clips 12 for refilling or re-

placement with a freshly charged one when it becomes discharged. Removal of the container 13 also results in the removal of the turbine and its guard 20. The turbine may be unscrewed from the valve 16 and replaced on a charged container.

The float 18 is yieldable so that it will readily conform to the contour of the bather's back and not interfere with swimming. Buckles 22 and 23 are provided in the body and shoulder straps 11 and 21, respectively, to allow for ready adjustment.

The spring clips 12 engage and hold the container by their inherent elasticity. The clips are secured to base strips 25 which are riveted or otherwise secured to the breast plate 10.

The breast plate 10 is preferably formed of fabric, reinforced by flexible corset stays 24, and serves to maintain the container in alignment with the axis of the bather's body.

The float 18 is preferably made streamline in contour so as to not interfere with the travel through the water.

While a specific form of the improvement has been described and illustrated herein, it is desired to be understood that the same may be varied, within the scope of the appended claims without departing from the spirit of the invention.

Having thus described the invention, what I claim and desire secured by Letters Patent is:—

1. A propelling device for bathers comprising, a power reservoir; means for attaching said power reservoir to a bather; and a propeller connected so as to be operated from said power device to propel said bather in the water.

2. A propelling device for bathers comprising, a power reservoir; means for attaching said reservoir to a bather; a motor carried on said reservoir and operated therefrom; a propeller driven by said motor and valve means for controlling the power supply to said motor and arranged to be operated by said bather.

3. A bathing device comprising straps arranged to surround the body of a bather; a breast plate secured to said straps and arranged to be carried over the front of said bather; a pressure reservoir secured to said breast plate; a turbine motor supported from said breast plate and adapted to be

driven from said reservoir and a propeller arranged to be driven by said turbine for propelling said bather through the water.

4. A bathing device comprising straps arranged to surround the body of a bather; a breast plate secured to said straps and arranged to be carried over the front of said bather; a pressure reservoir secured to said breast plate; a turbine motor supported from said breast plate and adapted to be driven from said reservoir and a propeller arranged to be driven by said turbine for propelling said bather through the water; and a float secured to said straps so as to support said bather on the surface of the water.

5. A bathing device comprising straps arranged to surround the body of a bather; a breast plate secured to said straps and arranged to be carried over the front of said bather; a pressure reservoir secured to said breast plate; a turbine motor supported

from said breast plate and adapted to be driven from said reservoir and a propeller arranged to be driven by said turbine for propelling said bather through the water; and a float secured to said straps so as to support said bather on the surface of the water, said float being of greater length than width and adapted to be secured substantially along a medial line along the back of said bather.

6. A propelling device for bathers comprising a pressure container; a valve secured to one extremity of said container; a turbine motor carried on the extremity of said valve; a breast plate adapted to be attached to said bather; and means carried by said breast plate for detachably engaging said container.

In testimony whereof, I affix my signature.

WORTH R. BARRINGER.