

F. W. BROWN.
AQUATIC TOY.
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1,244,948.

Patented Oct. 30, 1917.

Fig. 1.

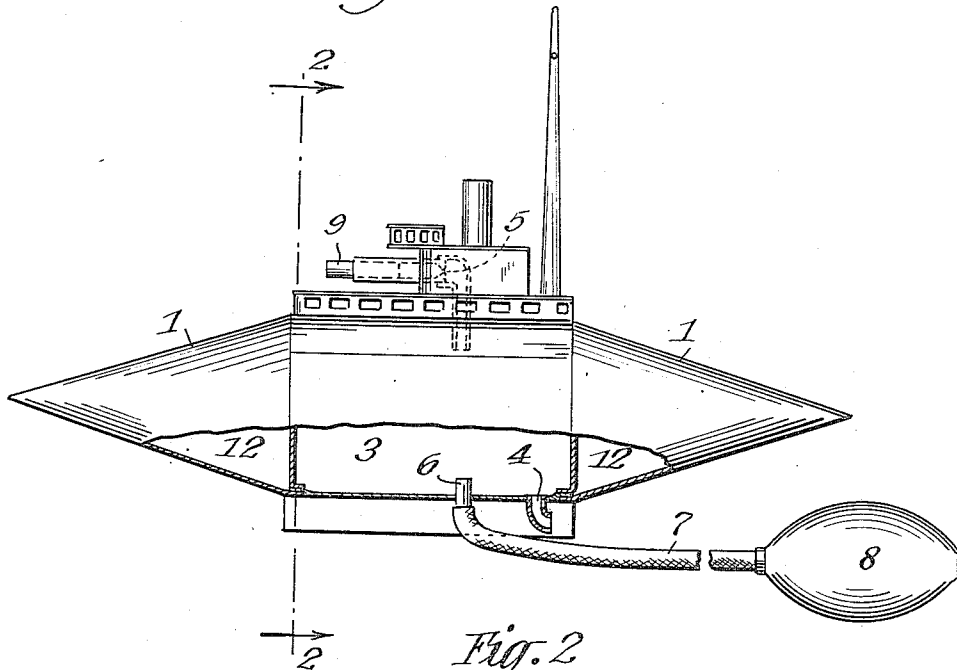
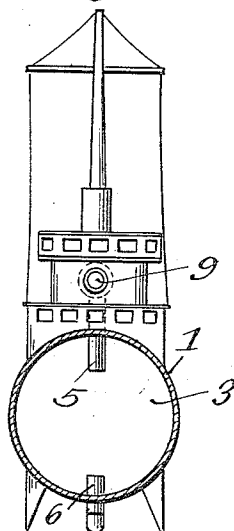


Fig. 2.



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AQUATIC TOY.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FREDERICK W. BROWN, a citizen of the United States, residing at the borough of the Bronx, city of New York, county of New York, State of New York, have invented a certain new and useful Aquatic Toy, of which the following is a specification.

My invention relates particularly to a submergible aquatic toy.

The objects of this invention, in whatever form it is embodied, are to provide a buoyant toy with a self-filling tank which, on being filled with water, causes a gradual submergence of the toy, and with externally controlled and operated means for discharging water from the tank, whereby to raise the toy to a floating position when desired.

In carrying out the invention the external appearance of the toy may assume a variety of different shapes and forms. For example, the body may be made to simulate a figure in a diving suit, or any other submersible object.

In the particular embodiment of the invention, which is illustrated and described in this application, the body of the toy is formed to represent a submarine boat.

The invention consists in the novel features of construction, arrangement and combination of parts hereinafter described and claimed.

In the accompanying drawings illustrating the preferred embodiment of this invention, Figure 1 is a side elevation, partly in section, thereof, and Fig. 2 is a section on line 2, 2.

1 indicates the body of the toy, which, in the present case, is formed to represent the hull and superstructure of a submarine boat, having a weighted keel to maintain it in an upright position. Air chambers 12 are located in the fore and aft parts of the hull to increase the buoyancy of and to give longitudinal stability to the body.

Contained in the body is a closed tank 3 provided with a duct 4 through which water flows in filling or discharging the tank. An air vent 5, preferably having an opening of smaller area than the opening of the duct

4, communicates with the tank. The tank is also provided with a nipple 6 to which is secured the lower end of a flexible tube 7, having at its upper end a rubber bulb 8, of the syringe type, or equivalent air pumping means. A removable stopper 9 is provided to close the mouth of the air vent 5 when desired. In the present form of the invention, the mouth of said vent is shaped to represent a cannon or torpedo tube and the stopper, which fits into the bore thereof, to represent a projectile. The stopper is preferably made of rubber or other material which will not swell or shrink when wetted, so as to avoid possibility of the stopper binding in the vent. When the tank 3 is empty and the stopper 9 is in the vent 5 the toy will float on the surface of the water. By pressing the bulb 8, air may be forced through the vent so as to eject the stopper in the manner of a projectile.

The manner in which the invention operates is as follows. When the toy is placed in water and the stopper of the air vent is removed, the tank 3 will fill itself with water and thereby cause the body to gradually submerge. By forcing air into the tank, by means of the bulb 8, the water contained therein will be expelled, thereby permitting the body to rise to its normal floating position. Where the opening of the air vent 5 is smaller than that of the duct 4, it is not necessary to put the stopper in the vent in order to raise the toy, but by closing the vent the tank can be discharged more rapidly.

Various changes and modifications may be made in the invention as described herein without departing from the scope of the invention as defined in the claims.

What I claim is:

1. An aquatic toy comprising a buoyant body containing a tank provided with an air vent and a duct for admission and discharge of water, a removable stopper for the air vent, and externally controlled means communicating with the tank for expelling water therefrom by means of air pressure.

2. An aquatic toy comprising a buoyant body containing a tank provided with an air vent and a duct for admission and discharge

of water, a removable stopper for the air vent, and externally operated pneumatic means communicating with the tank for expelling water therefrom and for ejecting the stopper from the air vent.

5 3. An aquatic toy comprising a buoyant body containing a tank provided with an

air vent and a water duct, the orifice of the vent being smaller than that of the duct, and an externally disposed pneumatic device communicating with the tank for expelling the contents thereof when desired. 10

FREDERICK W. BROWN.