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REMOTELY CONTROLLED PNEUMATIC SKIN DIVER TOY

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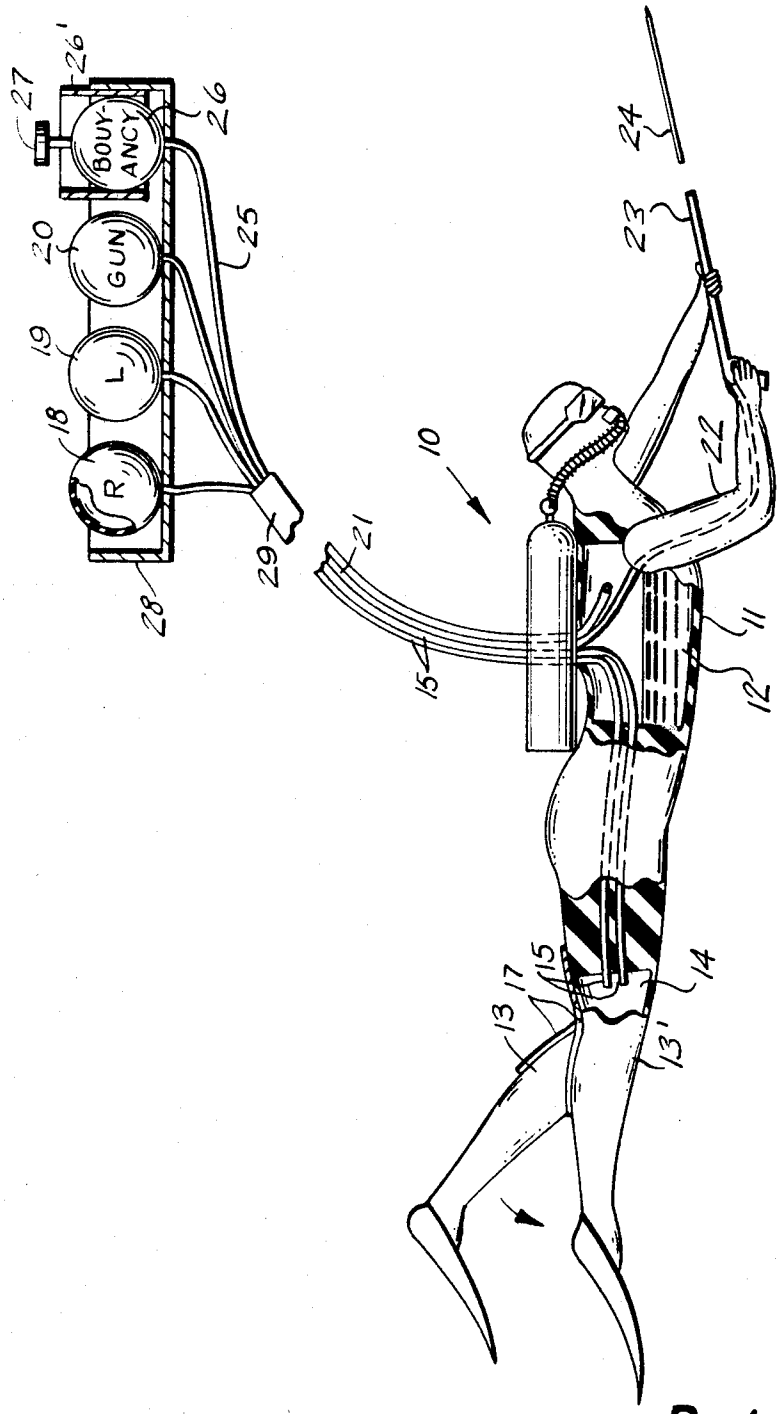

INVENTOR.

Paul E. Beatty, Sr.

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REMOTELY CONTROLLED PNEUMATIC SKIN DIVER TOY

Paul E. Beatty, Sr., 4713 Dohn Road, Louisville, Ky. 40216

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ABSTRACT OF THE DISCLOSURE

A hollow submersible body having hollow inflatable legs attached thereto where springs are attached to the legs to urge them to first position at one air pressure and the legs move to a second position at a different air pressure to propel the body. The body can include ballast means to selectively control the overall average density of the body.

It is therefore the main purpose of this invention to provide a skin diver toy which will be novel and will simulate a scuba diver which will utilize air and cause the legs to function as a real scuba diver's legs do to propel the toy forward.

Another object of this invention is to provide a skin diver toy which will have air lines within the body of the toy to increase or decrease the air within the device for controlling the forward motion, a spear gun, and the buoyancy of the toy within the water.

Still another object of this invention is to provide a skin diver toy which the child may easily operate by squeezing different rubber balls to control the actions of the toy.

Other objects and advantages of the invention will become apparent from a consideration of the following detailed description taken in connection with the accompanying drawing wherein a satisfactory embodiment of the invention is shown. However, it is to be understood that the invention is not limited to the details disclosed but includes all such variations and modifications as fall within the spirit of the invention and the scope of the appended claims.

In the drawing:

The drawing is the sole view of this invention shown partly in section.

According to this invention, a skin diver toy **10** is provided with a hollow body **11** which contains a quantity of water which will give ballast to toy **10**. Body **11** is made of plastic or other suitable material and is provided with a pair of hollow legs **13** and **13'** which have compartments **14** on the interior in which a pair of tubes extend to allow air to be forced into legs **13** and **13'** to force them downwards to a horizontal position with respect to the travel of the toy **10**. A strip **17** on the back of the joint area of legs **13** and **13'** is inherently springy and provides a means of returning the legs **13** and **13'** to their normally bent position. A rubber ball **18** or **19** provides control means for the air entering legs **13** and **13'**. By squeezing ball **18** or **19** the respective attached legs **13** or **13'** are forced downward by the air pressure being received within the compartment **14** and when the pressure is released from ball **18** or **19** the strips **17** normally spring the legs back to a bent position. A ball

20 provides air under pressure to a flexible tube **21** which is secured within the arm **22** of toy **10** and to the spear gun **23**. When ball **20** is squeezed air travels through tube **21** and into spear gun **23** thus discharging a spear **24**. A flexible tube **25** is secured at one end to a ball **26** which is confined within a box **26'** and a rotatable screw device **27** provides a means of squeezing ball **26** to obtain a desired depth of toy in the water when the air is received within the body **11** above water **12** contained within body **11**.

It will be noted that all the controlled rubber balls **18**, **19**, **20**, and **26** may be confined within a hollow box **28** and a sleeve **29** may be used to tie all the air lines together.

What I now claim is:

1. A submersible toy comprising: a hollow body of selected shape to be submerged in a liquid; hollow flexible leg means connected to and extending from said body; spring means affixed to said leg means to urge said leg means to first position at first gas pressure in said leg means; pressurization means to selectively change gas pressure in said leg means so said leg means moves from said first position to at least one second position in response to said change in pressure so said body is moved through said liquid in response to movement of said leg means; and, ballast means to selectively control the average density of said body so said body can be selectively submerged in said liquid.

2. A skin diver toy, comprising, a hollow plastic scuba diver shaped body, a plurality of hollow rubber balls, a plurality of flexible tubes interconnecting said balls and hollow compartments on said diver, a pair of spring strips on said diver, and ballast means for keeping said toy submerged, said body of said device is provided with a pair of hollow legs, and the backs of said legs are provided with spring strips which are secured to the back of the legs and thus provides a means for returning the legs to a bent position after air has been released from within the hollow compartments of said legs.

3. A skin diver toy, comprising, a hollow plastic scuba diver shaped body, a plurality of hollow rubber balls, a plurality of flexible tubes, a pair of spring strips on said diver, and ballast means for keeping said toy submerged, said tube enters into a hollow compartment of each of said legs of said toy and the other ends of said tubes are secured to hollow rubber balls, said rubber balls providing a means for exerting air under pressure into said hollow compartments to straighten said legs to provide forward propulsion for said toy.

4. A skin diver toy, comprising, a hollow plastic scuba diver shaped body, a plurality of hollow rubber balls, a plurality of flexible tubes, a pair of spring strips, and ballast means for keeping said toy submerged, a hollow rubber ball is secured to a tube and provides a means of introducing air into the cavity of the body of said toy, said cavity containing water for ballast and said air in said ball providing buoyancy for said toy allows more or less air to enter into the body cavity of said toy to raise or lower said toy within the water.

5. A skin diver toy comprising, a hollow plastic scuba diver shaped body, a plurality of hollow rubber balls, a plurality of flexible tubes, a pair of spring strips and ballast means for keeping said toy submerged, all of said

tubes secured to said balls are received within a sleeve thus confining the flexible tubes connected to said balls in order that they do not tangle or whip around and said balls are received within a box while said ball providing buoyancy air is received within a confined compartment and screw means above said ball allows for said ball to be depressed and the air to remain constant at a given pressure within the body cavity of said toy.

References Cited

UNITED STATES PATENTS

2,297,727	10/1942	Svoboda et al.	46—92
2,920,419	1/1960	Giannone	46—92

LOUIS G. MANCENE, *Primary Examiner.*

R. F. CUTTING, *Assistant Examiner.*