

Oct. 19, 1926.

1,603,513

M. CARTER

FLUID HOLDING TOY
Filed June 12, 1926

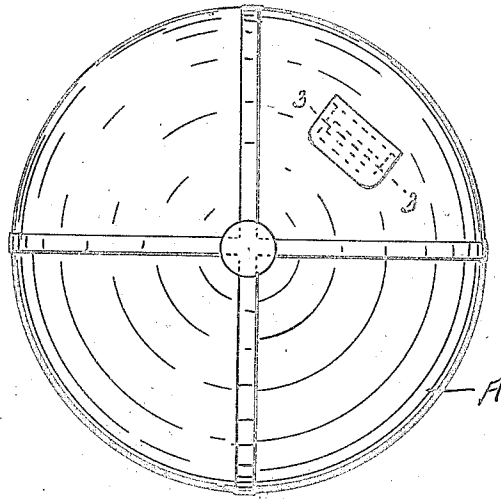


FIG. 1

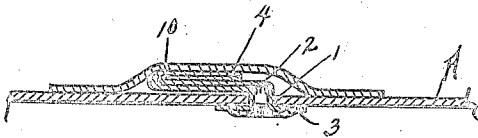


FIG. 3

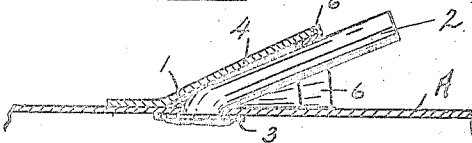


FIG. 4

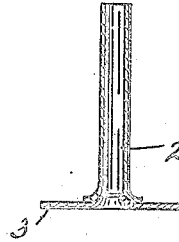


FIG. 2

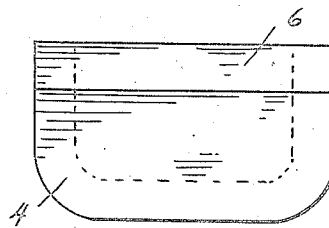


FIG. 5

Inventor

Mitchell Carter

By

R. M. Thomas
Attorney

UNITED STATES PATENT OFFICE.

MITCHELL CARTER, OF SALT LAKE CITY, UTAH.

FLUID-HOLDING TOY.

Application filed June 12, 1926. Serial No. 115,484.

REISSUED

My invention relates to toys and has for its object to provide a new and economically constructed pneumatic toy for children which may be given the form of a ball, animal or fish.

A further object is to provide a new and economically constructed ball for children which can be built out of old inner tubes or sheet rubber, and which will hold the air as long as is desired or which may be inflated and deflated at will.

A still further object is to provide a ball for indoor play which is not hard and will not be too heavy for any child to play with, and a ball which can easily be repaired when punctured, without much expense, and which will not ruin the ball for future use, as is the case with most soft rubber balls which are filled with air or gas.

These objects I accomplish with the toy illustrated in the accompanying drawings in which similar numerals and letters of reference indicate like parts throughout the several views and as described in the specification forming a part of this application and pointed out in the appended claims.

In the drawings of which I have shown the best and most preferred way of making a pneumatic ball, Figure 1 is a side elevation of the ball; Figure 2 is a section of the tube used to inflate the ball; Figure 3 is a section on line 3—3 of the tube and closure portion of Figure 1; Figure 4 is a section of the rubber tube for the ball, showing the tube in place therein and ready for inflation of the ball; Figure 5 is a plan view of the cover portion of the ingress and egress opening.

In the drawings I have shown the soft rubber ball as A, in which I cut a small hole 1, through which a tube 2 of similar rubber is passed and a small circular portion 3 of rubber is then attached to the inner end of the tube 2 by any desirable cement and the inner face of the said portion 3 is then secured to the inner side of the ball by the same means, as shown in Figure 4. A cover 4 is then attached to the outside of the ball by similar cement, as shown in Figures 3, 4 and 5, on three of its edges, and said cover 4 has a reinforcement 6 secured along its free side to make it conform tightly with the adjacent perimeter of the ball when it has been inflated. The ball A, as shown and when it is made of old inner tubes, is made of four

portions cut so that when pieced together they will form a sphere, and the portions are then secured together by strips of rubber and cement to form an air-tight ball. The ball can be constructed of old inner tubes and is very lasting when used indoors or out. When punctured the ball can be fixed by fitting a small patch over the hole and cementing it in place.

To inflate the ball the tube 2 is drawn out from under the cover 4 and air introduced into the interior of the ball. When sufficient air has been blown into the ball the tube 2 is then bent back upon itself, as at 10 in Figure 3, and pushed under the flap cover 4. The stretching of the rubber, both of the ball and the cover, will draw the cover down closely to the face of the ball and when the tube is pushed under the cover with a fold still in the tube the cover will press tightly against it and, with the pressure of the air on the inside of the ball, the tube will be compressed so tightly that air will not escape therefrom. When the ball is desired deflated, the tube is drawn from under the cover 4 and the air is allowed to escape.

Having thus described my invention, I desire to secure by Letters Patent and claim:—

1. In a toy of the class described the combination of a plurality of pieces of rubber cut and secured together to form a sphere, having an opening through its wall; a tube in said opening; a holding portion secured to said tube and then to said sphere; a cover over said tube secured to said sphere on three of its edges; and a reinforced strip along the free edge of said cover.

2. An inflatable and deflatable toy made of soft rubber and having a hole in its wall; a soft rubber tube passed through said hole with its end portion secured to the inner face of said toy; a soft rubber cover for said hole and tube with its edges secured to the body of said toy except for a portion of one edge to hold the tube when folded upon itself against the body of the inflated toy.

3. An article made of soft rubber and having a hole through its wall; a soft rubber tube having one end outwardly flanged; a reinforcing member secured to the flange of said tube and to the wall of said article and having a hole therein in alignment with the hole in the wall and with the interior of the tube, with the free end portion of said tube

extended through the hole in the wall of said article; a cover member made of soft rubber secured to the exterior of said article and covering said hole and said tube when the tube is bent upon itself and inserted between said cover member and the exterior of said article; and a reinforcement member for a

portion of the edge of said cover member secured to the inner face of said cover member and with its end portions secured to the exterior wall of said article.

In testimony whereof I have affixed my signature.

MITCHELL CARTER.