F. PASTOR.

TOY BALLOON.

APPLICATION FILED JUNE 6, 1917.

1,350,935. Patented Aug. 24, 1920.

FIG. 1.

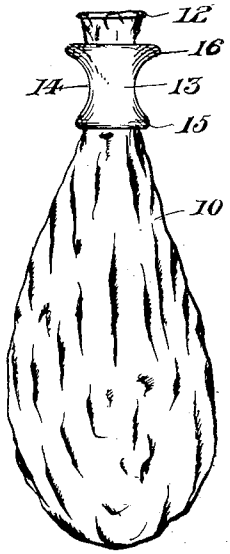
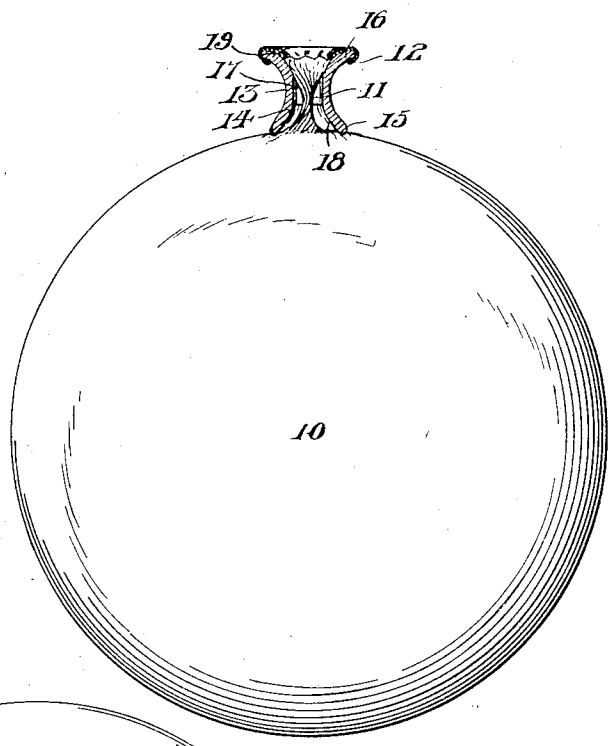


FIG. 2.



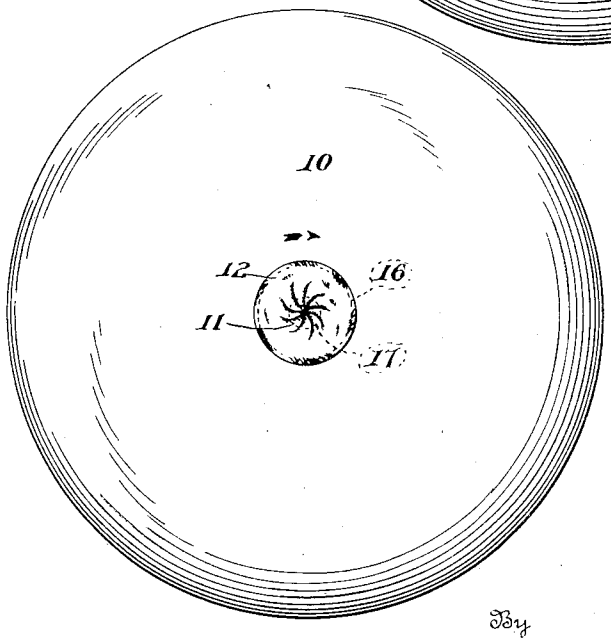


FIG. 3.

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FRANK PASTOR, OF AKRON, OHIO, ASSIGNOR TO THE ANCHOR RUBBER COMPANY, INC., OF BARBERTON, OHIO, A CORPORATION OF OHIO.

TOY BALLOON.

1,350,935. Specification of Letters Patent. Patented Aug. 24, 1920.

Application filed June 6, 1917. Serial No. 173,133.

To all whom it may concern:

Be it known that I, FRANK PASTOR, a subject of the King of Hungary, residing at Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Toy Balloons, of which the following is a specification.

This invention relates to new and useful improvements in toy balloons.

The primary object of the invention is to provide a toy balloon in which the inflatable body portion is of the usual construction including an enlarged body portion, a contracted neck portion having an edge bead, and having associated with the contracted neck portion an annularly grooved collar inclosing the neck portion and coöperating therewith to provide a valve closure for the balloon.

With these general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangements of parts hereinafter more fully described, illustrated in the accompanying drawings, and then claimed.

In the drawings forming a part of this application and in which like designating characters refer to corresponding parts throughout the several views:

Figure 1 is a side elevational view of a balloon constructed in accordance with the present invention, the same being illustrated in deflated condition.

Fig. 2 is a side elevational view of a balloon in inflated condition with the collar inclosing the neck portion of the balloon shown in section, and the extreme upper end of the balloon being shown in section, and

Fig. 3 is a top plan view of the balloon in inflated condition with the neck of the balloon shown closed by twisting.

Briefly described, the present invention aims to provide an improved valve construction for toy balloons wherein there is provided an inflatable balloon of any desired material, as rubber, having a contracted neck portion provided with a terminal edge bead to reinforce the same. An annularly grooved collar or ring is adapted to inclose the contracted neck portion while the beaded edge upon the neck is adapted to be folded backwardly over the outer edge of the collar.

Referring more in detail to the accompanying drawing, the reference numeral 10 designates the body portion of the balloon having a contracted neck portion 11 provided with a terminal edge bead 12.

A collar or ring 13 is provided for inclosing the contracted neck 11 of the balloon 10 and has the outer face thereof concaved as at 14 providing inner and outer annular flanges 15 and 16, the outer flange 16 being slightly larger in diameter than the inner flange 15 to offer a better mouth engaging grip for purposes of inflating the balloon. The inner construction of the collar or ring 13 embodies a contracted central passage 17 with an enlarged cavity or recess 18 and 19 positioned at the inner and outer ends thereon respectively.

In assembling the two elements of this invention, the balloon and the collar, the contracted neck 11 of the balloon is passed through the contracted central opening 17 in the collar 13 with the bead 12 thereon positioned outwardly of the outer flange 16. When in this position, the outer end of the contracted neck 11 carrying the bead 12 is folded backwardly on itself to cause the bead 12 to overlie the outer flange 16 and be held by its own elasticity in contact therewith. In this position air is blown in through the collar 13 and neck 11 until the body portion 10 of the balloon assumes the desired size, at which time the balloon body 10 is gripped by one hand while the other hand of the user rotates the collar 13 and with the collar the contracted neck portion 11 by reason of the fact that the outer end of the neck is in frictional engagement with the collar 13 and positively moves therewith. The collar or ring 13 is given any desired number of turns as three or four which will sufficiently twist the contracted neck portion 11 between the inner and outer flanges 15 and 16 in a manner positively to close the air passage therethrough. When so twisted, and allowed to rest in the position shown in Fig. 2, the inner flange 15 of the collar will lie in frictional contact with the adjacent body portion of the balloon 10 in a manner to prevent relatively rotary movment of the collar 13. It will be observed by reference to Fig. 2, that the twisted neck portion of the balloon at the outer end thereof adjacent the outer flange 16 lies in a substantially horizontal plane across the outer edge of the said flange and

is positively closed as is illustrated. It will be also observed that the twisted portion of the balloon neck is entirely contained within the collar 13 and presents a more or less mysterious way of retaining the balloon in inflated condition without some visible valve mechanism, the twisted portion of the balloon neck constituting an efficient valve for retaining the balloon in inflated condition.

By twisting the neck 11 of the balloon as illustrated, the said twisted portion has a tendency to shorten itself in length thereby causing the inner flange 15 of the collar 13 substantially to impinge the adjacent portion of the balloon body and in a manner sink into the same thereby insuring the collar against relative rotary movement.

While the form of the invention herein shown and described is what is believed to be the preferred embodiment thereof, it is nevertheless to be understood that various forms, modifications and arrangements of the parts may be made without departing from the spirit and scope of the invention as claimed.

What I claim as new is:—

1. A toy balloon including a body portion, a contracted neck portion, and means fastened to the neck portion coöperating therewith and constituting a valve closure for the balloon, the said means including a collar flaring outwardly at each end.

2. A toy balloon including a body portion, a contracted neck portion, and means fastened to the neck portion coöperating therewith and constituting a valve closure for the balloon, the said means including a rotatable collar enlarged at each end thereof.

3. A toy balloon, including a body portion, a contracted neck portion, and means associated with the neck portion coöperating therewith and constituting a valve closure for the balloon, the said means consisting of a collar flaring outwardly at each end to provide inner and outer flanges, the outer end of the balloon neck being turned backwardly upon the outer collar flange.

4. A balloon including a body and neck portions, and a collar inclosing the neck portion, said collar being tubular and cylindrical midway its ends, with the inner and outer ends thereof flaring outwardly, the outer end of the balloon neck being folded backwardly over the outer edge of the collar, and with the intermediate twisted portion of the neck spaced from the inner walls of the collar while the inner edge of the collar frictionally engages the adjacent portion of the balloon body.

5. A nozzle valve for toy balloons consisting of a hollow central portion having enlarged cup-shaped ends practically similar in shape, said device being adapted to be placed over and attached to the neck of a toy balloon and to form filling, closing, and locking means whereby the inflating air or gases are retained within said toy balloon.

6. A combined filling, closing and locking valve for toy balloons comprising a body of circular cross-section provided with a longitudinal bore, both ends of which are provided with flared portions of substantial length practically similar in shape.

7. A combined filling, closing and locking valve for toy balloons comprising a body of circular cross-section provided with a longitudinal bore both ends of which are provided with flared portions of substantial length practically similar in shape, the end edge of one of said flared portions being shaped to engage and retain an overlapping edge of an inflatable body.

8. A combined filling, closing and locking valve for toy balloons comprising a body of circular cross-section provided with a longitudinal bore both ends of which are provided with cup-shaped enlargements practically similar in shape.

9. A combined filling, closing and lock-ink valve for toy balloons comprising a hollow body of circular cross-section provided with cup-shaped ends.

10. A combined filling, closing and locking valve for toy balloons, comprising a body provided with a hollow central portion and enlarged cup-shaped ends, one end being of larger diameter than the other end.

In testimony whereof I affix my signature.

FRANK PASTOR.