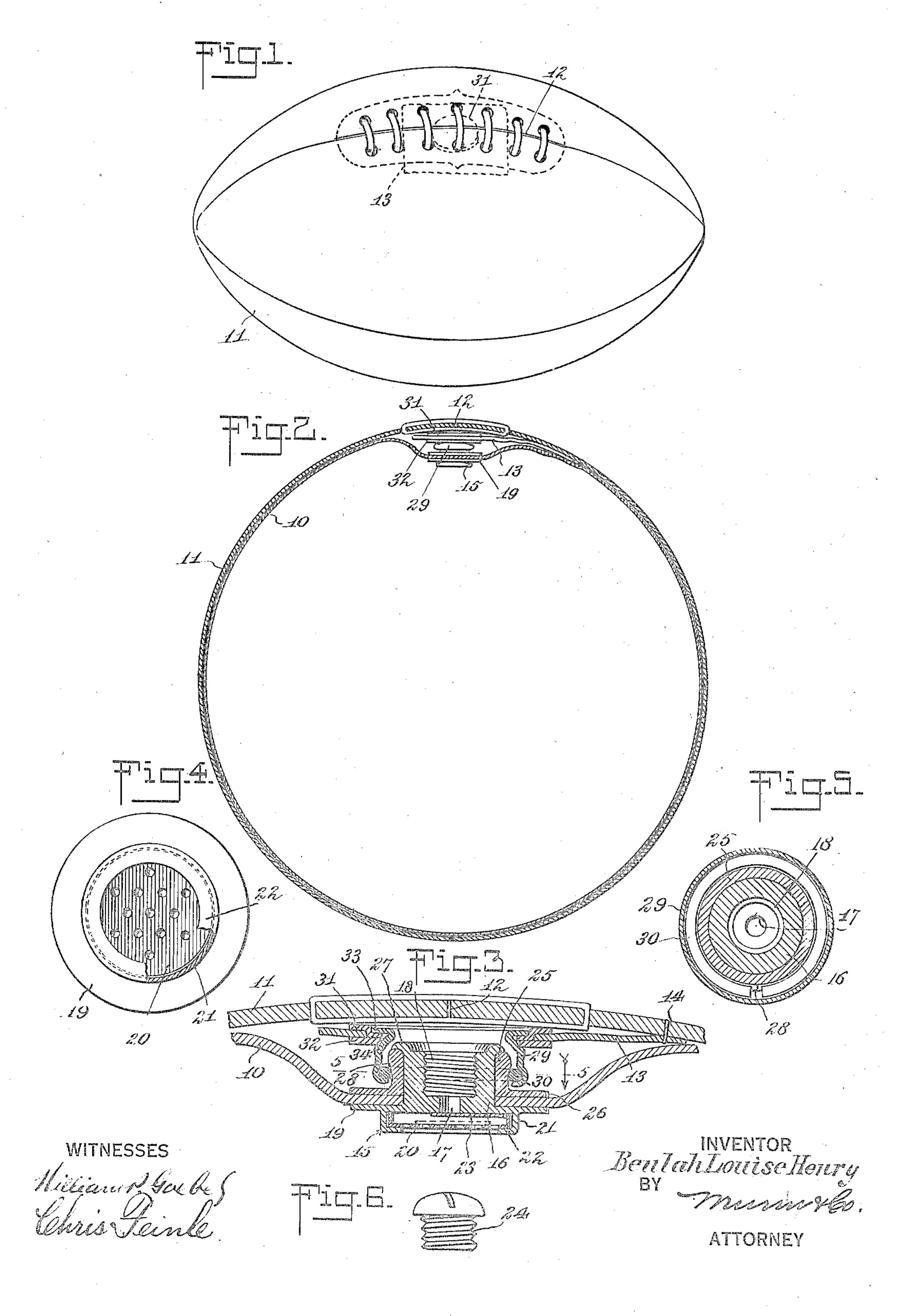
## VALVE FOR INFLATABLE ARTICLES

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## UNITED STATES PATENT OFFICE.

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VALVE FOR INFLATABLE ARTICLES.

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This invention relates to the class of play is inserted into and removed from the outer balls and closely analogous articles having covering 11. A flap 13 is secured along one an inflatable body or bladder, and an outer edge as at 14 on the inside of the covering covering therefor.

15 necessarily large proportions, which enables of the member 20. A valve member 23 in 70

20 vision of an inflating and deflating metal diameter of the member 20, is sufficiently 75

25 prevent leakage.

vision of novel means whereby to connect passing around the edge of the valve mema play ball bladder with its cover, when the ber 23. The pressure of air in the bladder bladder is deflated, and which also enables 10 serves to hold the valve member 23 in a 30 the removal of the bladder from the cover- position to close the inner end of the pas- 85 ing when desired.

appear when the following specification is 35 read in connection with the accompanying

drawing, in which-

ing the features of the present invention. through the passage 17. The passage 17 is

40 through the ball.

the valve with portions broken away.

5—5 of Fig. 3.

Fig. 6 is a view of a plug which may be

used with the valve.

involve a play ball of any preferred type, body 16. The member 25 has a flange 26, 105 opening 12 through which the bladder 10 and 26 respectively on the inside and out- 110

11 so as to be disposed over the opening 12.

More particularly, the invention relates A metal valve 15 is connected with the 60 to means enabling the inflation of the body wall of the bladder 10 for inflating and deor bladder of an article of the indicated flating the bladder. The valve includes a character, and for connecting the body or body 16 having a throat or air passage 17 bladder with its covering. which is threaded at the outer end as at 18. Among the objects of the invention are: The body 16 has a flange 19. Associated 65 to provide an article of the indicated char- with the body 16 is a perforated dished acter with means for inflating the same, member 20 which is held in place by a cirwhich will be more suitable for the purpose, cular portion 21 having a circular edge 22 which will not be cumbersome or of un-turned inwardly over the marginal portion a person to inflate the body or bladder by the form of a disk of rubber is arranged in blowing into said means, or by utilizing a the space presented by the member 20 and suitable pump for that purpose. the inner face of the body 16. The member Another object of the invention is the pro- 23 is smaller in diameter than the internal valve for inflatable rubber bladders, which large to cover the inner end of the passage embodies improved structural features, 17, and not so large as to cover all of the whereby the valve is securely connected perforations in the member 20. It will with the bladder, in such a manner, as to therefore be understood that air may be blown or pumped into the bladder 10 for 80 Another object of the invention is the pro- the purpose of inflating the same, the air sage 17 to prevent the escape of air. When The nature of the invention and its dis- it is desired to deflate the bladder it is only tinguishing features and advantages will necessary to push the valve member 23 against the member 20 by the use of a suitable implement, the air will then pass 90 through the perforations in the member 20 Figure 1 is a view of a football embody- around the edge of the valve member 23 Fig. 2 is a transverse sectional view threaded as at 18 for the purpose of receiving a threaded nipple on a tube of a pump, 95 Fig. 3 is an enlarged sectional view or a tube which may be held in the mouth through the valve and fastening means. of a person for the purpose of inflating the Fig. 4 is a view looking at the inside of bladder. If desired a threaded plug 24, such as the one shown in Fig. 6 may be Fig. 5 is a sectional view taken on the line screwed into the outer end of the passage 100 17 to keep foreign matter from entering. The valve 15 is securely connected with the wall of the bladder 10 by the use of a mem-In practice the invention will essentially ber 25 adapted to fit around a portion of the but which will essentially include an in- The wall of the bladder 10 is provided with flatable body or rubber bladder 10, and an a hole through which the body 16 is exouter covering 11 for the bladder 10. The tended, the member 25 is then slipped on the outer covering 11 has a laced placket or body 16, which will bring the flanges 19

side of the edge of the bladder 10 surround- the flaps 13, and at the same time keep the wardly in contact with the member 25, as inflating and deflating operations. 5 at 27, thus effectively clamping the edge It is to be understood that the female between the flanges 19 and 26.

In order to connect the bladder 10 with the covering 11, when the bladder 10 is de-10 flated, there is provided suitable retaining or fastening means, presently to be de-15 a groove 28. The coacting means also incircular spring 30. The member 29 is con- connect the bladder with the covering. nected with the flap 13. This is accom- 2. In a play ball, the combination of an 20 through which the member 29 extends, there respectively on opposite sides of the edge the bladder with the covering. portion of the flap 13 surrounding the hole 3. The combination with a play ball com-25 therein. By the use of a suitable tool, the prising an inflatable bladder, a covering for 30 edge of the flap between the washers 31 and flating the bladder, and a snap fastener will now be understood that the member 29 necting the bladder with said flap. may be snapped over the member 25, which Signed at New York, in the county of 35 brings the spring 30 in the groove 28, thus New York and State of New York, this the bladder 10 will be connected with the 24th day of April, 1928. flap 13, to prevent the bladder 10 from shifting or moving around with respect to

ing the hole. By the use of a suitable tool, valve 15 in position at the opening 12 in the 40 the outer end of the body 16 is turned out- cover 11, for the purpose of carrying out

portion of the bladder surrounding the hole member 29 may be connected directly with the cover 11, instead of with the flap 13, 45 se that the bladder 10 may be inflated and deflated without unlacing the covering 11.

I claim:

1. The combination with an inflatable scribed. The member 25 heretofore men-bladder, and covering therefor of a play 50 tioned constitutes a male member of the ball; of a valve on the bladder for inflating fastening means and is concaved to present and deflating the bladder, and a snap fastener having coacting parts respectively on cludes a female member 29 having a split the covering and the valve to detachably

plished by putting a hole in the flap 13, inflatable bladder, a covering for the bladder, a snap fastener having coacting parts being also provided metal washers 31 and respectively on the outside of the bladder 32. The washers 31 and 32 are disposed and on the inside of the covering to connect 60

member 29 is crimped or turned outwardly the bladder, said covering having a placket, to present a circular edge 33, which coacts and a flap attached to and arranged on the 65 with a substantially conical portion 34 of inside of the covering at the placket; of a the member 29 to effectively clamp the said valve on the bladder for inflating and de-32, and to hold the member 29 in fixed posi- having coacting parts respectively on the tion on the flap 13, at the opening 12. It flap and the valve for the purpose of con- 70

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