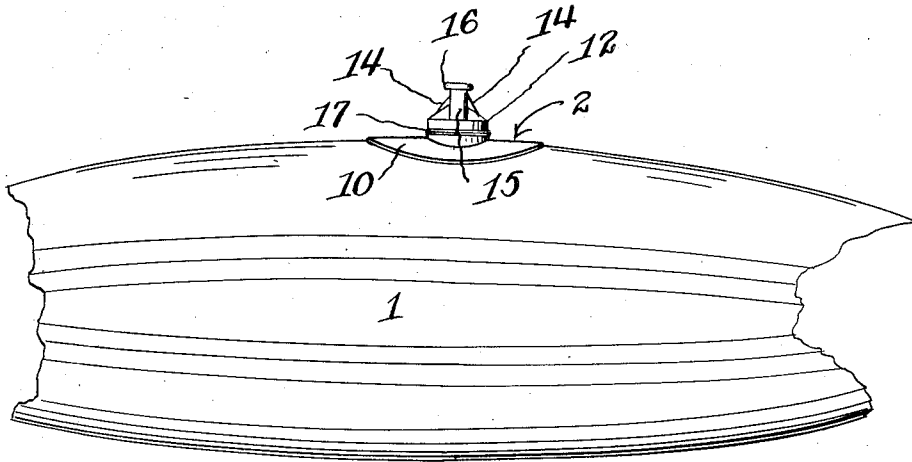


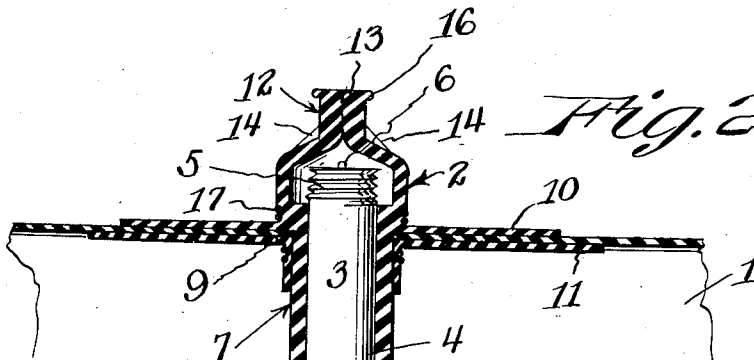
C. J. JENSEN.  
 PROTECTED VALVE.  
 APPLICATION FILED JULY 14, 1920.

1,374,741.

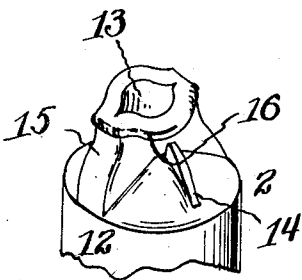
Patented Apr. 12, 1921.



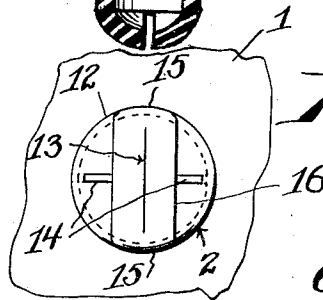
*Fig. 1.*



*Fig. 2.*



*Fig. A.*



*Fig. 3.*

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# UNITED STATES PATENT OFFICE.

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## PROTECTED VALVE.

1,374,741.

Specification of Letters Patent. Patented Apr. 12, 1921.

Application filed July 14, 1920. Serial No. 396,247.

*To all whom it may concern:*

Be it known that I, CHARLES JOHN JENSEN, a citizen of the United States, and a resident of North Plainfield, county of Somerset, State of New Jersey, have invented certain new and useful Improvements in Protected Valves; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to new and useful improvements in valves to be used in inflatable bladders, such as those applicable to footballs, basket balls, punching bags and the like.

The primary object of the invention is the provision of a valve positioned within a bladder or the like and so held in position as to prevent dirt or the like from interfering with the seating of the said valve and thereby preventing leakage of air from the said bladder.

Another object of the invention is the provision of a flexible supporting member in which the valve is held and which is capable of being attached to the bladder to which the valve is to be applied, the same being of such construction as to permit ready access to the valve for the purpose of inflating the bladder.

A further object of the invention is the provision of a valve and supporting means therefor, which will be comparatively simple and inexpensive to manufacture, reliable and efficient in use, and readily operated.

With the above and other objects in view, the present invention resides in the novel features of construction, formation, combination and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawings forming a part of this application and in which:

Figure 1 is a side elevation of a bladder with my improved valve applied thereto, the ends of the bladder being broken away.

Fig. 2 is a longitudinal sectional view thereof.

Fig. 3 is a plan view of the valve holder and a portion of the bladder.

Fig. 4 is a perspective view of the upper end of the holder.

Referring now to the accompanying draw-

ing, wherein like characters of reference designate corresponding parts thereof, throughout the several views, the numeral 1 denotes a bladder of any desired shape and size, the same being formed from any suitable inflatable material and being provided with a valve shown in general at 2.

The valve proper is indicated at 3 and consists of a tubular member 4 having its upper end 5 threaded to engage a suitable pump (not shown) or other means of inflation. The usual plunger is provided for the valve 3 and a portion thereof is visible at 6, but as the same can be of any well known type, further detailed showing is deemed unnecessary.

A valve support or casing is shown at 7 and consists of a flexible, tubular body portion 8, designed to receive the valve 3 which may be molded therein or otherwise firmly secured in the position substantially as shown. This body portion 8, extends almost its entire length within the bladder 1, while its upper end extends through the opening 9 formed in said bladder 1 and is provided with an annular flap 10 which may be vulcanized, cemented or otherwise secured against leakage to the outer surface of the bladder 1 around the said opening 9. Another and similar flap 11 is secured to the inner side of the bladder 1 in a similar manner and may be either an integral part of the tube 8 or secured thereto as desired.

A head 12 is provided at the upper end of the body portion or tube 8 and consists of a hollow flexible casing inclosing the upper end of the valve 3. The top of this head 12 is slit as at 13 to provide access thereto and is normally pressed closed by the ribs 14 on the opposite sides thereof. The edges of the head 12 opposite the ribs 14 are reinforced as at 15, while the upper edge thereof is provided with a bead 16, all of which tend to hold the slot or opening 13 in closed position as shown in Figs. 2 and 3.

When however it is desired to obtain access to the valve 3 for inflating or other purpose, pressure is exerted on the reinforced sides 15 of the head 12 and the latter will be opened as clearly shown in Fig. 4.

The valve 3 may be held against displacement by the wires 17 which may be wrapped around the body 8 and further insure against leakage.

From the foregoing it will be manifest that a valve is provided for bladders and the

like which will answer all the necessary requirements of such a device, and it should be understood in this connection, that various minor changes in the specific details of  
5 construction can be resorted to within the scope of the appended claim without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus fully described the invention, what I claim as new and desire to  
10 secure by Letters Patent is:—

In a device such as described, the combination with a bladder and a valve therefor, of a holder for said valve including a tubular  
15 lar member, adapted to receive the valve,

flaps formed upon the tubular member and adapted to be attached to the bladder, to hold the tubular member in position, a compressible head formed upon the tubular member exterior of the bladder and concealing the valve, said head having a slot therein, the head having a bead and ribs thereon normally holding the slot closed and being so shaped that upon compression of the opposite sides thereof said slot will be  
20 opened and the valve exposed.

In witness whereof I have hereunto set my hand.

CHARLES JOHN JENSEN.