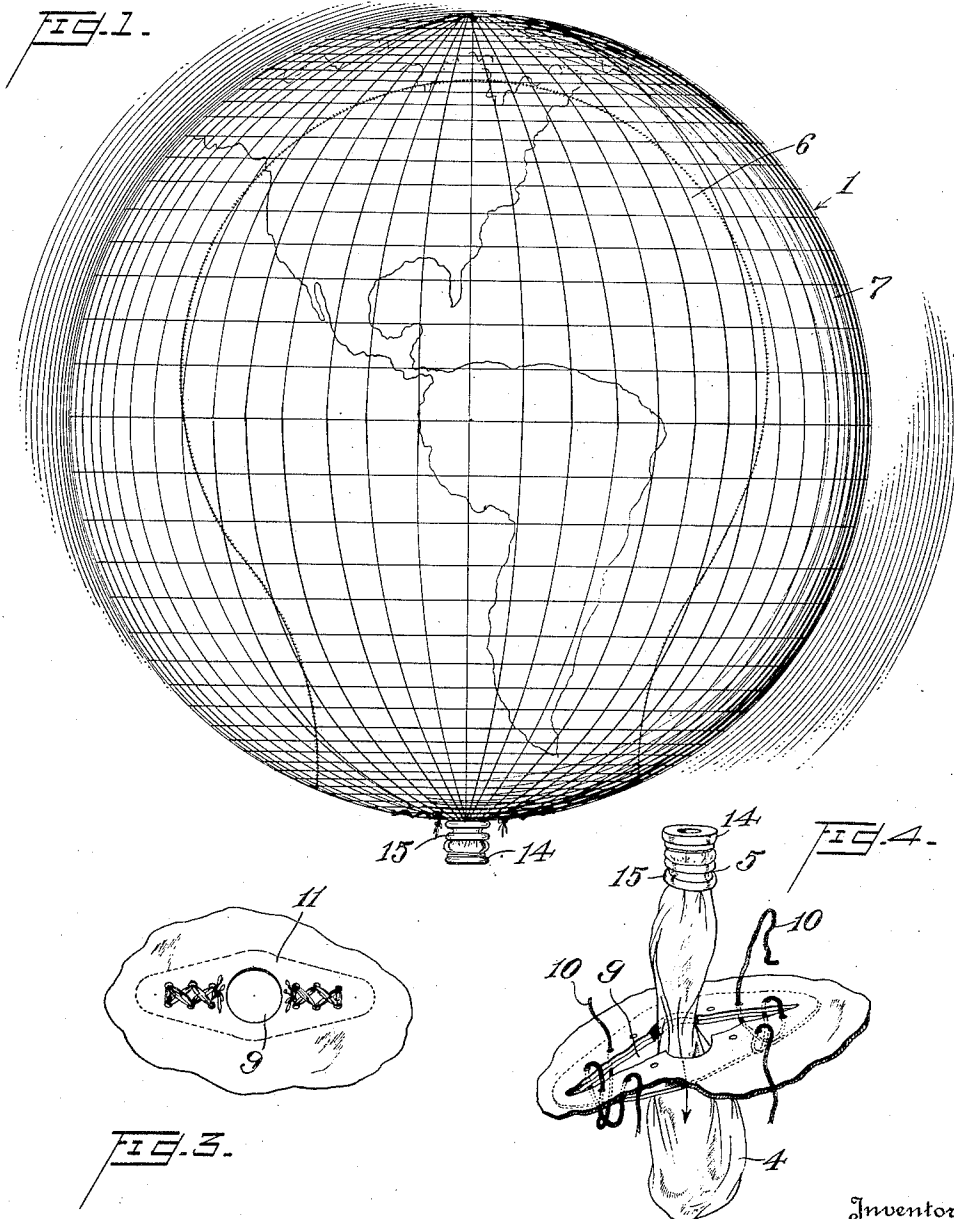


E. HENDRY.
INFLATABLE GLOBE.
APPLICATION FILED JULY 30, 1920.

1,383,115.

Patented June 28, 1921.
2 SHEETS—SHEET 1.



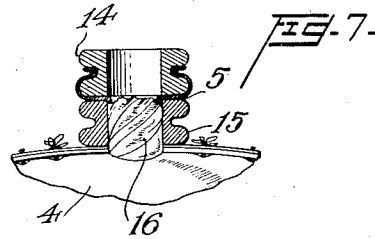
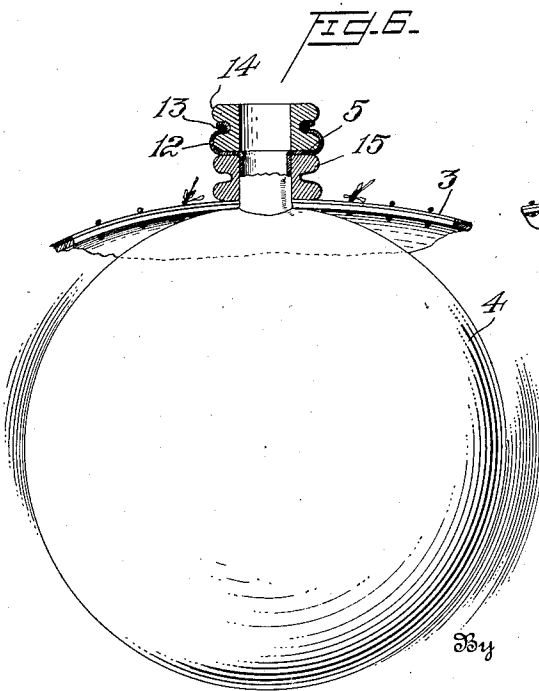
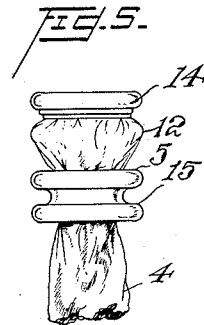
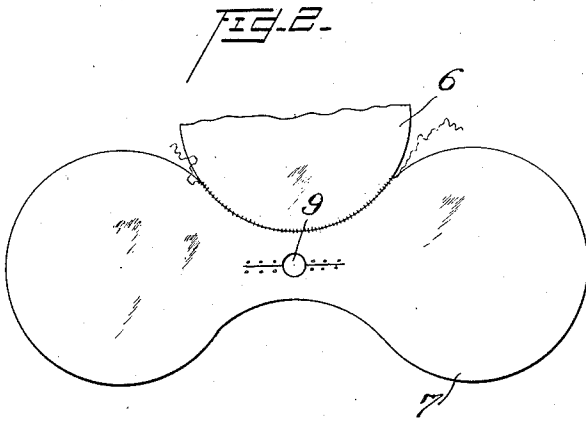
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ELLEN HENDRY, OF FRESNO, CALIFORNIA.

INFLATABLE GLOBE.

1,383,115.

Specification of Letters Patent. Patented June 28, 1921.

Application filed July 30, 1920. Serial No. 400,198.

To all whom it may concern:

Be it known that I, ELLEN HENDRY, citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented certain new and useful Improvements in Inflatable Globes, of which the following is a specification.

My invention relates to an inflatable globe adapted to be used for instruction in geography or for similar purposes; and one of the objects of the invention is to provide a device of this character, which will be simple and cheap in construction, easy to operate, and which will occupy only a small space when not in use.

Another object is to provide a valve for the inflatable globe, which will be constructed of a few simple parts, thus materially cheapening the construction of the globe.

Another object is to so cut the outer envelop of the globe that the sections may be accurately joined, and also so that the characters printed on the envelop will not be distorted by the necessity of joining too many independent sections.

With these general objects in view, my invention consists in certain novel and peculiar features of construction and combinations of parts as hereinafter described and claimed; and in order that it may be fully understood, reference is to be had to the accompanying drawings, in which,

Figure 1 is an elevation of the globe in inflated condition and ready for use.

Fig. 2 is a detail view showing the plan of cutting and joining the outer envelop.

Fig. 3 is a detail view showing the closure of the outer envelop.

Fig. 4 is a detail view showing the manner of inserting the inner elastic envelop in position.

Fig. 5 is a detail view of the valve in position for inflating the inner envelop.

Fig. 6 is a detail view showing the valve members in section and the manner of securing the inner envelop thereto, with the globe in the act of being inflated.

Fig. 7 is a detail view showing the valve closed with the globe fully inflated.

Referring to the drawings in detail, 1 is the inflatable globe having an outer envelop 3 and an inner elastic envelop 4 provided with a valve 5. The outer envelop is made of any suitable fabric and is constructed of two sections 6 and 7, cut in the same shape

as a base ball cover and having printed or otherwise impressed on the surface thereof, maps or other desirable figures. The seam connecting the two sections has a curvature that is designated as a "base-ball suture," and follows the lines of a doubly symmetric curve. One of the sections is provided with a slitted opening 9, adapted to be held in closed position by lacings 10. A reinforcing strip 11 is applied to the edges of the slitted opening.

The sections of the outer envelop having printed thereon the desired characters are joined together along their edges by sewing, pasting or in any other suitable manner. One of the advantages of having the outer envelop made up of sections of this plan is that it is easy to match the sections, so that there is no substantial distortion of the picture after joining. This is a decided advantage where there are many longitudinal and lateral lines as in a geographical globe. Then again the arrangement of the continents on the globe is such, that there is a minimum of seams across the most used sections of the map. By reference to Fig. 1, it will be observed that the only seam on the continents of North and South America is across the most north-western section of the former. Substantially the same favorable conditions will be found in the map of the eastern hemisphere.

The valve for closing the inner elastic envelop after inflation consists of two buttons 14 and 15, which may be similar in construction. The aperture of the elastic bag 4 is slipped over the shoulder 12 formed by the groove 13 in the outer button 14. The bag 4 may then be slipped through the inner button 15 until the two buttons are in contact. The inner bag is then inserted through the slitted aperture in the outer envelop as shown in Fig. 4. The globe is now ready for inflation which is done preferably by blowing in air from the lungs. When the globe is completely inflated, it is removed from the lips, and the finger placed over the aperture therein, and the outer button is then turned relatively to the inner button so that the material of the elastic envelop is twisted as shown at 16, Fig. 7, thereby preventing escape of air therefrom. The tension of the inflated elastic inner envelop causes the inner and outer buttons to be forced together, thus holding the twisted neck of the bag in position to prevent escape

of air. After inflation, the slitted opening 9 in the envelop is laced up, and the inner button will then fit over the opening in the outer envelop, thus concealing it from view.

5 From the above description it will be apparent that I have produced a device of the character described, which possesses all the features enumerated as desirable, and while I have illustrated and described the preferred form of the invention, it will be understood that I reserve the right to all changes properly falling within the spirit and scope of the appended claims.

Therefore what I claim as new and desire 15 to secure by Letters Patent is:

1. A spherical envelop for a geographical globe carrying on its surface geographical features, the said envelop being divided into two equal parts by a doubly symmetrical 20 spherical curve.

2. An inflatable globe comprising an envelop of flexible material the said envelop being constructed of two parts of substantially the same size and united by a base-ball 25 suture.

3. An inflatable globe comprising an envelop of flexible material, the said envelop being constructed of two parts of substantially the same size and united by a base-ball 30 suture, and means for inflating the globe.

4. An inflatable globe comprising an outer envelop of flexible material, the said outer envelop being constructed of two parts of substantially the same size and united by a base-ball suture, an inner elastic envelop and 35 a valve carried thereby for controlling the inflation of the globe.

5. An inflatable globe comprising an outer flexible envelop provided with an aperture, an inner elastic envelop provided with an 40 aperture, an annular member secured in the aperture of the elastic envelop and adapted to twist the said elastic envelop to close its aperture, a second annular member cooperating with the first said member to hold the 45 said elastic envelop in twisted position, the said second member being of sufficient size to cover and conceal the aperture in the outer envelop.

6. An inflatable globe comprising an outer 50 flexible envelop provided with an aperture, an inner elastic envelop provided with an aperture, a member secured to the elastic envelop for closing its aperture and being of sufficient size to cover and conceal the 55 aperture in the outer envelop when the globe is inflated.

In testimony whereof I affix my signature

ELLEN HENDRY.