

*G. D. Abbot,*

*Globe.*

*No. 20,291.*

*Patented Aug. 11. 1868.*

*Fig. 1*

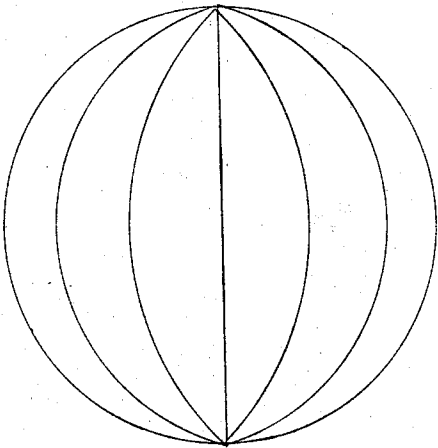


*Fig. 2*

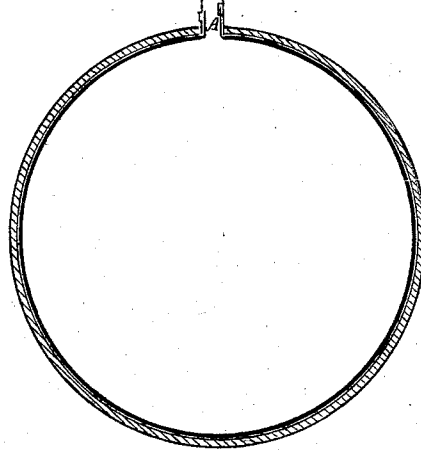


*Fig. 3*

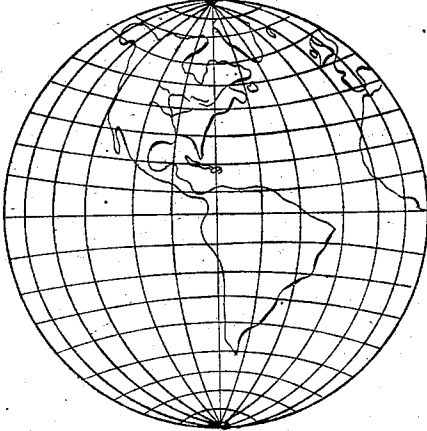
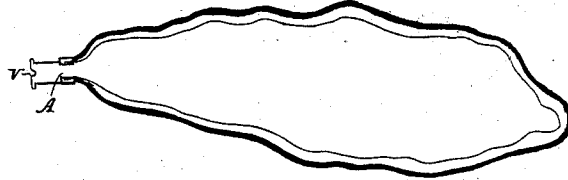


*Fig. 4*



*Witnesses Edmund Doughty*  
*Geo M. Allerton*

*Gordon D. Abbot*  
*Inventor*

# United States Patent Office.

GORHAM D. ABBOT, OF NEW YORK, N. Y.

*Letters Patent No. 80,891, dated August 11, 1868.*

## IMPROVEMENT IN GLOBES.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, GORHAM D. ABBOT, of the city, county, and State of New York, have invented a new and improved Mode of Making Globes; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, making a part of this specification.

I print my globes in lune-shaped sections, in the ordinary way, on any material combining flexibility with strength and durability. Some kinds of paper answer the purpose very well, but parchment or a closely-woven fabric is better.

A very excellent material for the sections is prepared by running a very thin tissue of rubber, in a manner well known to all manufacturers of rubber cloth, upon cotton, linen, silk, or mixed goods. The sections then may be printed on the cloth face, or on the rubber face, or they may be printed on the cloth first, and then have a transparent sheet of rubber run over the printed face.

The printed sections are sewed together, and made up in the globe-form, or they may be cemented to some firm material, such as canvas, leather, or felt, made up in the globe-form in sections, or made without seams, like hat-bodies, if felt be used.

This outer covering I distend into the globe-form, by the use of an elastic inflatable rubber bag, or with cork, sponge, hair, or any other light elastic substance.

In sewing the sections together, I sometimes underlay the seams with strips or gores of India-rubber tissue or cloth, in order to hold the edges more firmly together, and prevent their separating by the expansive force of the inflation or distension.

In making very large globes, I find it useful to place an intermediate covering between the outer globe and the inner bag, as shown in fig. 2.

A tube, A, at one of the poles, with a valve, b, furnishes the means for inflating the globe at pleasure, and a rod or firm tube running through the centre, with a nut attached to each pole, supplies an axis for mounting the globe, and illustrating the revolutions of the earth.

Figure 1 shows six of the sections, forming one-half of the globe.

Figure 4 is a polar section of the globe before being distended, as above described. The red lines show the inner rubber inflating-bag.

Figure 2 is a polar section of the inflated globe. In this figure is shown an intermediate covering between the outer globe and the inflating-bag.

Figure 3 is a perspective view of the completed globe.

What I claim as my invention, is—

A globe, constructed of flexible material, and distended by means of an elastic inflatable rubber bag, or with cork, hair, sponge, or other light elastic substance, substantially as described.

GORHAM D. ABBOT.

### Witnesses:

EDMUND DWIGHT,  
GEO. M. ALLERTON,  
ELBERT PERCE,  
HENRY KERNOT,  
R. G. ALLERTON.