

(No Model.)

W. R. STORY.

ATTACHMENT FOR SPHERICAL BLACKBOARDS.

No. 379,915.

Patented Mar. 20, 1888.

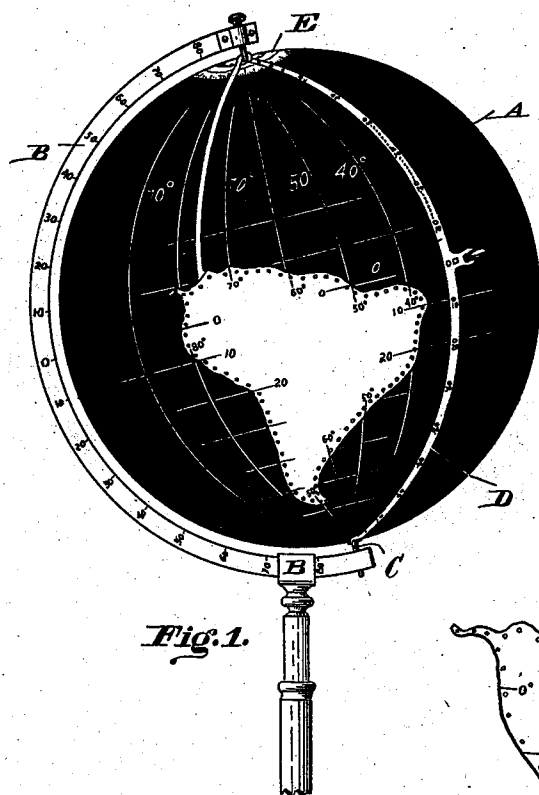


Fig. 1.

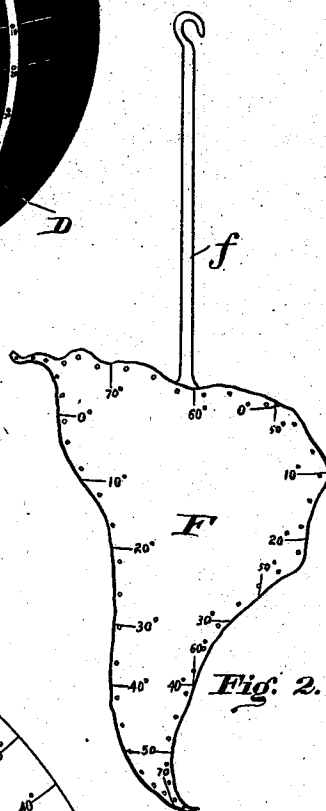


Fig. 2.

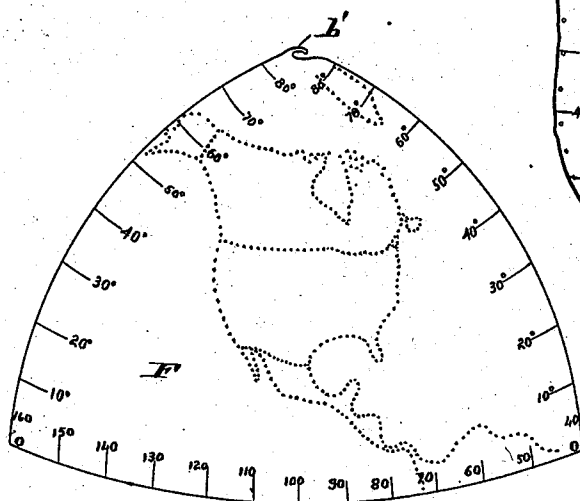


Fig. 3.

Attest.
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UNITED STATES PATENT OFFICE.

WILLIAM R. STORY, OF CINCINNATI, OHIO, ASSIGNOR TO EDWIN S. HAVENS,
OF SAME PLACE.

ATTACHMENT FOR SPHERICAL BLACKBOARDS.

SPECIFICATION forming part of Letters Patent No. 379,915, dated March 20, 1888.

Application filed October 31, 1887. Serial No. 253,816. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. STORY, a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Attachments for Spherical Blackboards, of which the following is a specification.

My invention consists in providing a spherical blackboard with a suitable stencil for outlining the different countries thereon, and is intended to be used in connection with my improved spherical blackboard, as shown and described in an application for Letters Patent filed October 3, 1887, Serial No. 251,372.

In the accompanying drawings, Figure 1 is a view in perspective of a blackboard provided with my improvement. Fig. 2 is a view in elevation showing one form of stencil and means for attaching same to the blackboard. Fig. 3 is a view in elevation of another form of stencil and connection.

As preferably constructed and shown, the blackboard A is spherical in form, and is mounted in the semicircular standard B by means of the axial rod C, passing through the sphere and operating in suitable bearings in the ends of said standard. This spherical blackboard has a suitable coat of slating or other marking substance on its outer surface, on which the parallel and meridian lines are drawn by means of the divider D. This divider has suitable openings in it corresponding to the degrees of latitude north and south, and is in the present illustrative instance secured to the blackboard by means of the rod C. The longitudinal lines are drawn by placing the straight edge of the divider on the degree desired, as indicated by the dial E, and then drawing the line.

The above-described construction is fully set forth in the aforementioned application. As therein stated, it was the intention to have the teacher or pupil outline the different countries himself, which is a very good plan if time and talent will permit; but as the teacher and pupil are often limited in time, I have invented and constructed the hereinafter-described attachment to facilitate in outlining the countries.

This attachment consists in providing a suitable stencil, F, slightly concave on its inner face to fit the configuration of the blackboard. This stencil may be made as shown in Fig. 2—that is, one stencil for each country—or may be divided in quarters of a hemisphere, as shown in Fig. 3, with the different countries outlined thereon by means of the perforations, as shown. The stencil may be cut the configuration of the desired country, and the outline drawn from its outer edge; but it is preferred to have the outlines perforated in the stencil, and then take a brush charged with pulverized chalk or other suitable material and brush the same over the stencil, which will cause the pulverized material to pass through the perforations and leave the outlines dotted on the blackboard. These stencils have marked on the outer edge the proper degrees of latitude and longitude to correspond with the degrees marked on the spherical blackboard and dial. The larger the sphere the farther apart will be the degree-lines. The stencils may be made of thin copper or other sheet-metal, papier-maché, or other suitable material, and may be connected to the blackboard in any suitable manner, two modes being shown in Figs. 2 and 3.

The advantages of my invention when used in connection with my improved spherical blackboard are apparent. By the use of the stencils the student not skilled in map-drawing may outline the different countries by means of the perforations in said stencils, and, having these dotted lines as a guide, may then draw in a solid outline, and thereby advance himself in the art of map-drawing and acquaint himself with the configuration and location of the different countries on the earth's surface. Having drawn the outlines of a country once or twice by means of the stencil, the student may put away the stencil and draw in the outlines offhand, his previous experience with the stencil greatly assisting him.

What I claim as new and of my invention, and desire to secure by Letters Patent, is—

1. In combination with a spherical blackboard constructed substantially as described, a stencil slightly concave on its inner face to

fit the configuration of the blackboard, and suitable means for connecting said stencil to the blackboard.

5 2. In combination with a spherical blackboard, a stencil having outlines of countries perforated therein and having the proper degrees marked thereon, and suitable mechan-

ism for connecting said stencil to the blackboard, as and for the purposes specified.

WILLIAM R. STORY.

Witnesses:

HENRY WOOST,
O. M. HILL.