

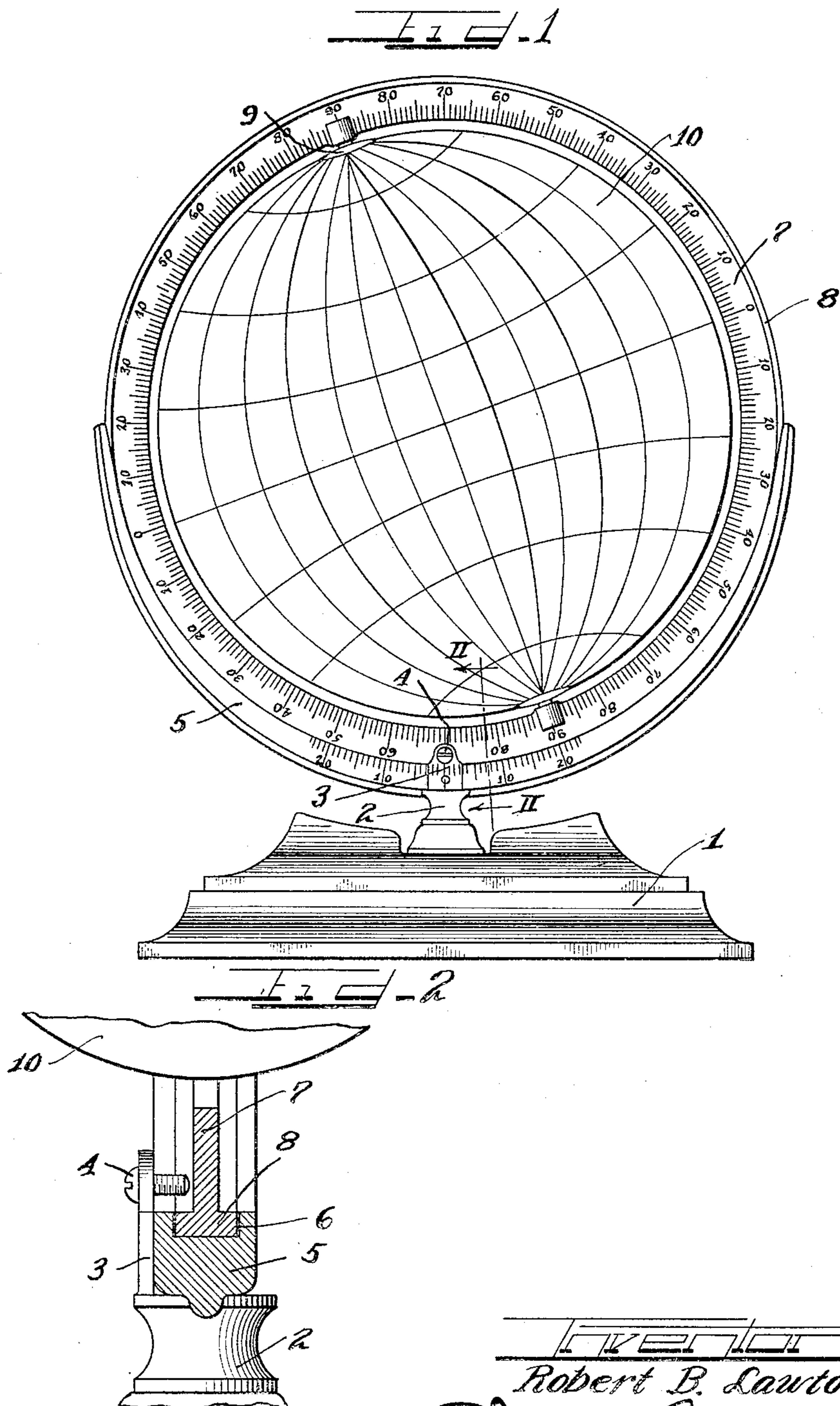
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R. B. LAWTON

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GROOVED SUPPORTING FORK FOR GLOBES

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Robert B. Lawton.
Charles Miller

LL

Atty.

UNITED STATES PATENT OFFICE

ROBERT B. LAWTON, OF CHICAGO HEIGHTS, ILLINOIS, ASSIGNOR TO WEBER COSTELLO CO., OF CHICAGO HEIGHTS, ILLINOIS, A CORPORATION OF ILLINOIS

GROOVED SUPPORTING FORK FOR GLOBES

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The present invention relates to a globe and more particularly to an improved supporting fork which is grooved for the reception of a movable globe carrying meridian whereby the axis of the globe may be quickly and conveniently adjusted at desired angles by means of graduations provided on the sides of the grooved supporting fork.

It is an object of this invention to provide an improved fork having a groove provided in the inner peripheral surface thereof for the reception of a rotatable globe carrying meridian.

It is also an object of this invention to provide an improved grooved supporting fork for a globe carrying meridian, said fork having degree marks provided thereon extending in opposite directions from a zero mark to facilitate adjustment of the axis of the earth from zero up to $23\frac{1}{2}^{\circ}$.

It is an important object of this invention to provide an improved and simplified grooved supporting fork having degree graduations on opposite sides thereof and also having means for coaction with a flanged globe carrying meridian to prevent the meridian from being disengaged from the fork when the meridian is rotatably adjusted with respect to the fork.

Other and further important objects of this invention will be apparent from the disclosures in the specification and the accompanying drawing.

The invention (in a preferred form) is illustrated in the drawing and hereinafter more fully described.

On the drawing:

Figure 1 is a front elevation of a globe which is rotatably supported in a meridian which in turn is rotatable in a grooved and graduated meridian supporting fork embodying the principles of this invention.

Figure 2 is an enlarged fragmentary sectional view taken on line II—II of Figure 1.

As shown on the drawing:

The reference numeral 1 indicates a pedestal or base having mounted thereon a supporting post or stand 2. Secured on the top of the post 2 is a bracket or arm 3 having a

threaded aperture therein through which a retaining screw 4 is adjustably engaged.

Rigidly secured upon the top of the post 2 is an arcuate or crescent shaped supporting fork 5 which is widest at its middle portion and which gradually tapers toward both ends. The supporting fork 5 is constructed of cast metal or other suitable material and said fork is positioned against the inner side of the arm 3 and as clearly illustrated in Figure 2 is provided with a groove 6 which is formed in the inner peripheral surface of the fork and extends from one end of the fork to the other. Provided on each side of the fork 5 is a series of graduations or markings which extend in opposite directions from a zero degree mark up to $23\frac{1}{2}^{\circ}$ which indicates the inclination of the earth's axis.

Seated in the fork groove 6 is a movable or rotatable meridian or ring 7 provided with an integral outer peripheral rim or flange 8 which is adapted to track in the fork groove 6. As clearly illustrated in Figure 2 the screw 4 has the inner end thereof positioned to project inwardly adjacent one side of the meridian 7 and to the inside of the meridian flange 8 permitting rotation of the meridian but on the other hand serving as a means for preventing the meridian from falling out or being removed from the supporting fork. Both sides of the meridian 7 are provided with degree graduations or markings.

Rotatably supported diametrically in the meridian 7 is an axis 9 on which a globe 10 is supported.

It will be noted that the improved globe unit is provided with a supporting fork having a continuous groove therein extending from one end to the other for receiving the globe carrying meridian the rim or flange of which slidably seats in the fork groove 6 between the side flanges of the fork which form the groove 6. With the opposite sides of the fork provided with degree graduations ranging from zero in opposite directions to $23\frac{1}{2}^{\circ}$ a convenient arrangement is provided whereby the axis of the globe may be readily adjusted from a vertical position of zero degree to varying inclinations from zero up to $23\frac{1}{2}^{\circ}$ on either side of the zero mark.

It will of course be understood that various details of construction may be varied through a wide range without departing from the principles of this invention and it is therefore
5 not purposed to limit the patent granted hereon otherwise than necessitated by the scope of the appended claims.

I claim as my invention:

1. A globe device comprising a base, a fork
10 supported thereon and having an inner peripheral groove therein extending continuously from end to end of said fork, degree graduations provided on said fork, a meridian rotatably supported in said groove, and a
15 globe rotatably supported in said meridian, said meridian having graduations thereon in cooperative relation with the graduations on the fork to facilitate accurate adjustment of inclination of the axis of the globe.

2. A globe device comprising a base, a fork
20 supported thereon and having an inner peripheral groove therein extending throughout the entire length of the fork, said fork having degree graduations provided thereon, a
25 meridian rotatably seated in said groove and having graduations thereon in cooperative relation with the graduations on the fork, a globe rotatably supported in said meridian, and means carried by the fork for coaction
30 with the meridian for obviating removal of the meridian from the fork.

3. A globe device comprising a supporting fork having a continuous groove provided in the inner periphery thereof and extending from end to end of the fork,
35 graduated markings provided on the fork, a globe carrying meridian rotatably supported in the groove of said fork and having graduations thereon to permit the axis
40 of the globe to be set in inclined positions of adjustment by means of the graduations on said fork and on said meridian, and means carried by the fork for coaction with the meridian to obviate accidental removal of the
45 meridian from the fork.

4. A globe device comprising a meridian ring having graduation markings thereon, a globe supported in said meridian ring, a grooved stationary support for receiving the
50 meridian ring, and graduations on said grooved stationary support to facilitate adjustment of the inclination of the axis of the globe.

In testimony whereof I have hereunto subscribed my name at Chicago, Cook County,
55 Illinois.

ROBERT B. LAWTON.