No. 680,461. Patented Aug. 13, 1901.

F. E. MITCHELL.

GLOBE.

(Application filed Mar. 7, 1901.)

(No Model.)

Fig. 2.

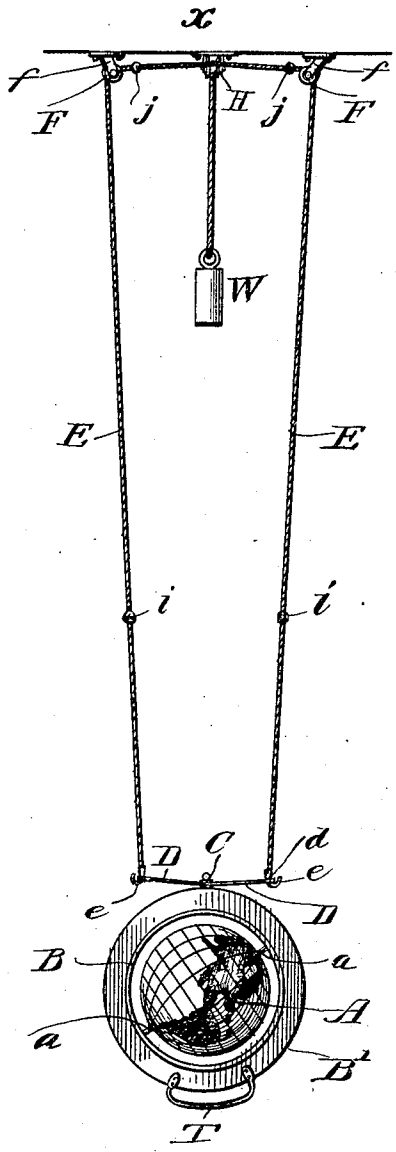
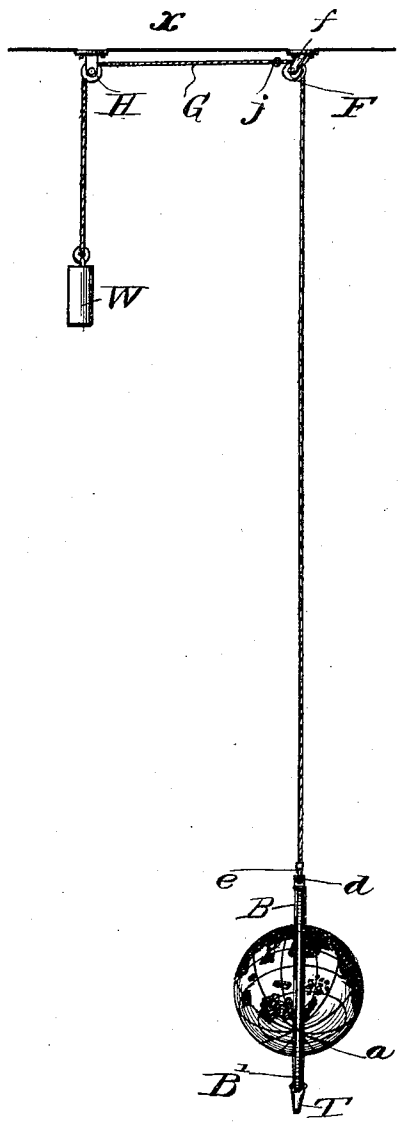


Fig. 1.



Witnesses
F. L. Belt,
A. G. Sims.

Inventor
Frank E. Mitchell
By
Mason Fenwick & Lawrence, Attorneys.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK E. MITCHELL, OF OSHKOSH, WISCONSIN.

GLOBE.

SPECIFICATION forming part of Letters Patent No. 680,461, dated August 13, 1901.

Application filed March 7, 1901. Serial No. 50,266. (No model.)

To all whom it may concern:

Be it known that I, FRANK E. MITCHELL, a citizen of the United States, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented new and useful Improvements in Globes, of which the following is a specification.

My invention relates to improvements in educational appliances, and more particularly to globes; and it consists of means for suspending a globe at different heights.

One of the objects of my invention is the provision of a terrestrial globe which shall be capable of assuming different altitudes and at the same time be capable of revolution upon its axis.

It has other objects in view, and consists of certain other novel constructions, combinations, and arrangements of parts, as will be hereinafter more fully described and claimed.

In the accompanying drawings, Figure 1 represents a side elevation of a globe and support embodying the features of my invention, and Fig. 2 represents a front elevation of the same.

Referring to the drawings by letter, A represents any preferred form of globe, and *a a* the axis of the same.

B represents the inner meridian-ring, and B′ the outer meridian-ring. The laterally-extending arm D is attached at its center to the outer meridian-ring B′ by a swivel-joint or other pivotal means, as *c*. The outer ends of arm D are preferably provided with eyes, as *d d*, which eyes are adapted to receive hooks, as *e e*, carried by the lower ends of cords, as E E. Said cords E E are preferably formed diverging upwardly, thereby preventing any twisting movement of the globe or any entangling of the cords. Pulley-blocks, as F F, are secured to the ceiling X of a room or other support by means of hooks, as *f f*. The cords E E pass over blocks F F, extend horizontally below ceiling X, and are connected with a single cord, as G, which cord passes rearwardly over a block or pulley, as H, and down to a weight, as W, attached to its lower end. To limit the upward and downward movement of globe A, I preferably provide stops, as *i i*, intermediate the length of ropes E E, and similar stops *j j* near the upper end of said ropes E, which stops will not pass said blocks F F, and thereby prevent the globe from ascending or descending too far. Any desired form of handle, as T, may be provided for operating my improved globe.

My invention provides a means for readily raising and lowering a globe to any desired height and for bringing said globe into use or raising it out of the way instantly. It is cheap and yet of durable construction and convenient, being freely movable and at the same time not liable to injury or destruction.

One of my appliances—that is, the feature of the support—may be placed in each of a number of school-rooms, and one globe may be employed in connection with all the supports, the said globe being readily unhooked from one support and transferred to another.

By means of my improved support the globe may be made to rotate upon every conceivable diameter, and every conceivable hemisphere may be turned so as to face the observer.

The globe may be lowered to view from above and raised to view from below and may be raised or lowered to properly bring the globe to the observer's accustomed plane of vision. It may also be used as a tellurian by revolving the globe around the observer.

Although I have specifically described one particular embodiment of my improvement, I do not wish to be understood as limiting myself to the exact form set forth, but shall feel at liberty to deviate from the exact construction and arrangement specified and from the size, shape, and minor details within the spirit and scope of my invention.

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

1. A support for a globe comprising a laterally-extending arm, a meridian-ring swiveled to said arm, and suspending-cords connected to the arms, and diverging upward and connected to an overhead support, substantially as described.

2. A support for a globe comprising a laterally-extending arm, a meridian-ring swiveled to said arm, and two suspending-cords connected to the outer ends of the arm, and diverging upward and connected to an overhead support, substantially as described.

3. A globe-support, comprising a meridian-

ring for supporting the axes of the globe, a laterally-extending arm pivotally secured at its center to the periphery of the meridian-ring, cords detachably secured to the outer free end of the said arm and extending therefrom upwardly in divergent lines, a pulley for supporting each of said cords, a single cord secured to the upper ends of the two cords after they have passed through the said pulleys, a pulley for supporting the single cord and a counterbalance-weight at the end of the single cord, the structure being such that the meridian-ring and globe may be raised and lowered and maintained at different heights and the globe may be turned by turning the meridian-ring on its pivotal support or the globe may be turned about its axis within the meridian-ring, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FRANK E. MITCHELL.

Witnesses:
ANNA R. WATERHOUSE,
HERBERT NINTZEL.