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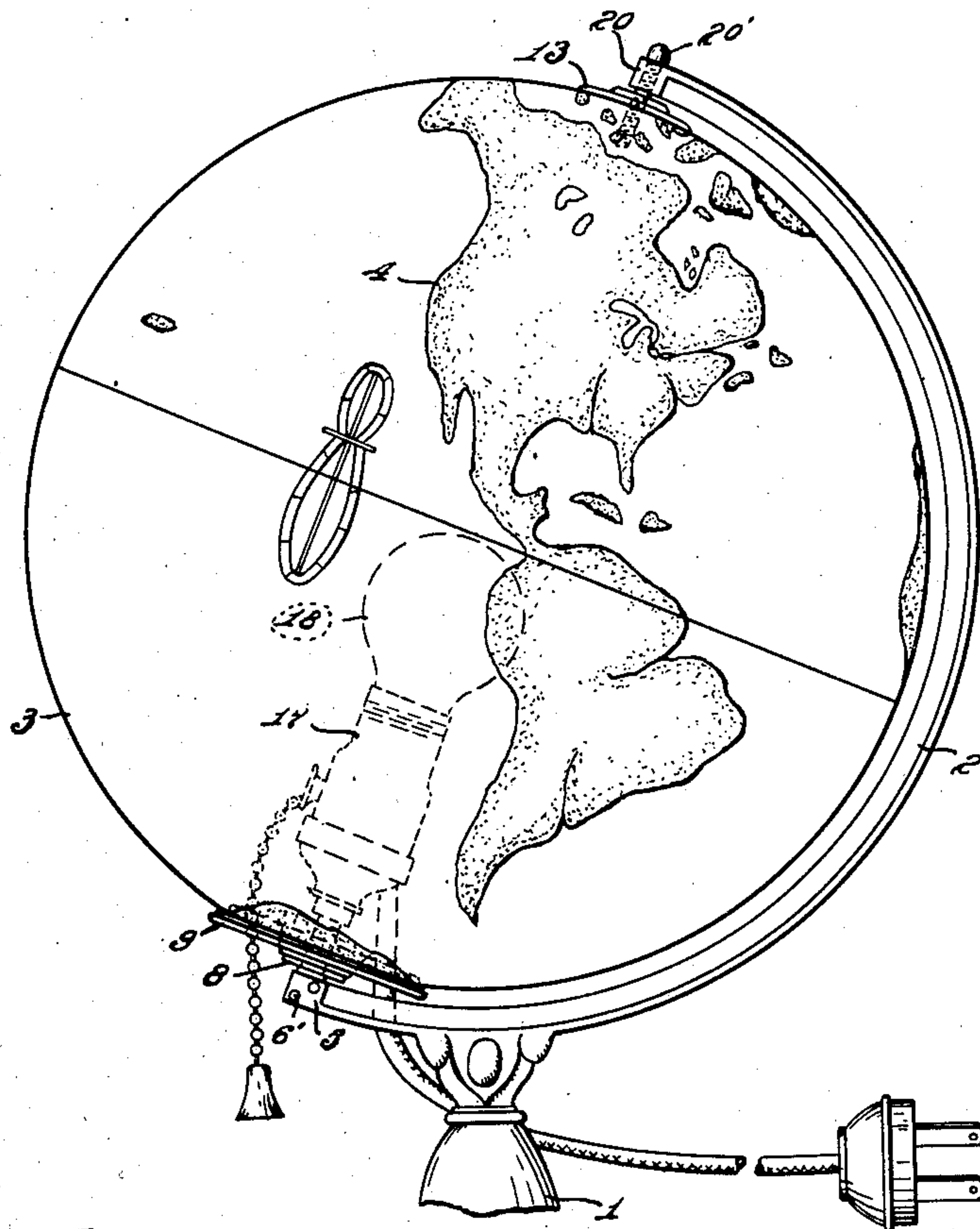
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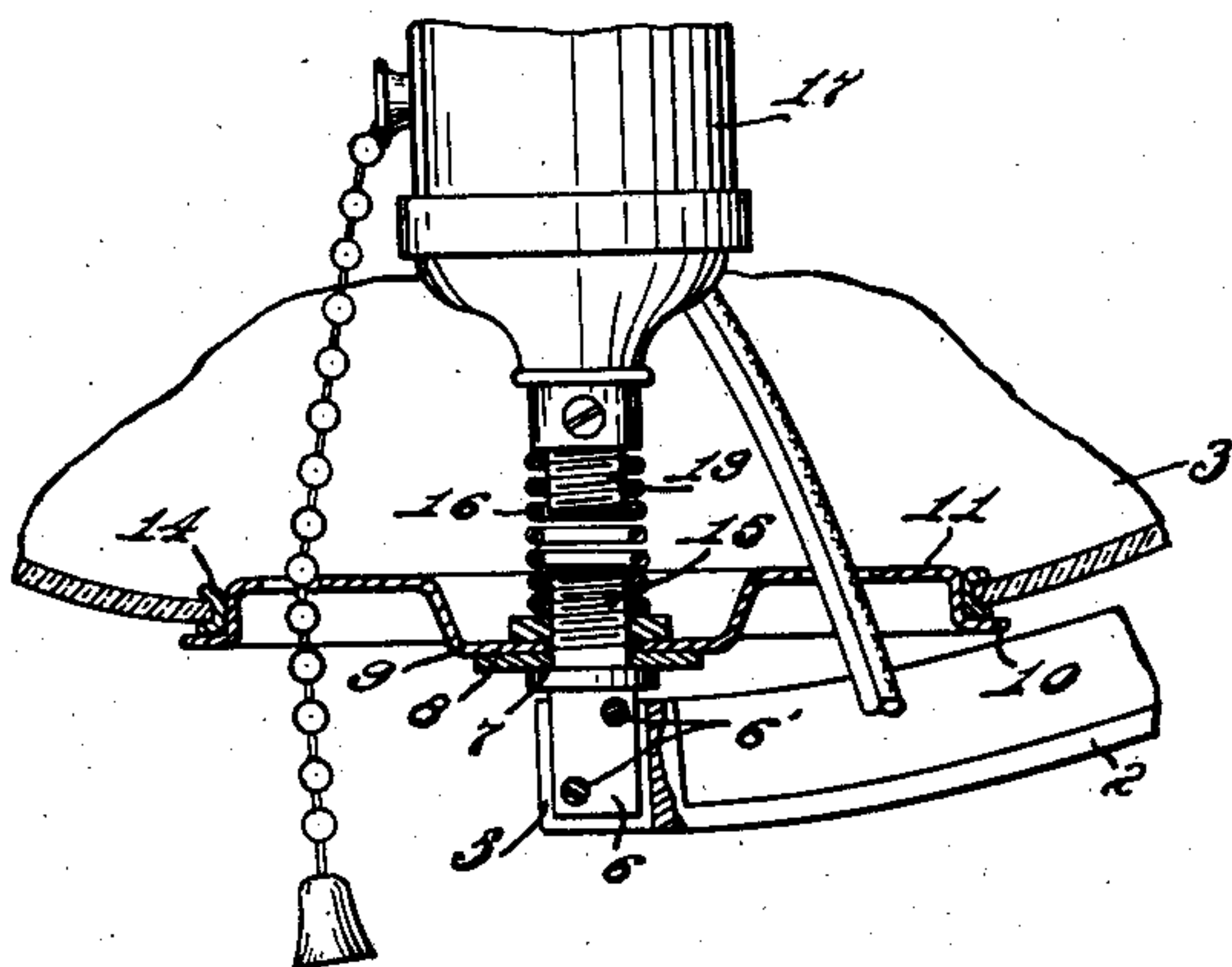
MOUNTING FOR ILLUMINATING GLOBES

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*Fig. 1.*



*Fig. 2.*



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## UNITED STATES PATENT OFFICE

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## MOUNTING FOR ILLUMINATING GLOBES

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6 Claims. (Cl. 240—2)

My invention relates to improvements in terrestrial globes and has for one of its primary objects to provide an illuminated terrestrial globe which may be readily removed from its supports without unnecessary displacement of the parts and the unnecessary displacement of the illuminating lamp which is adapted to project into the globe.

Another object of my invention is to provide an illuminated terrestrial globe which may be cheaply manufactured, readily assembled and in which the globe proper may be removed from its support to permit inspection and renewal of the illuminating lamp without unnecessarily disturbing the associated parts of the structure.

For the purpose of disclosing my invention, I have illustrated an embodiment thereof in the accompanying drawing, in which:

Fig. 1 is a side elevation of a globe embodying my invention, and

Fig. 2 is a detail sectional view showing the globe mounted.

In the embodiment of the invention illustrated, I provide a suitable supporting base 1 which may be of any desired structure and on this base is supported a half meridian ring 2. I have illustrated a half meridian ring although it will be understood that a full meridian ring may be as readily used. The globe 3 which is supported within this meridian and is rotatable on its polar axis, is preferably formed of translucent material either glass or paper as the occasion may warrant and this globe is adapted to have on its surface the usual map indicia 4. This map indicia may be printed directly on the globe or may be printed on segments of paper which are secured to the surface of the globe by a suitable adhesive.

For supporting the globe, at the bottom end of the meridian ring 2, I provide a hollow boss 5 within which is supported a post 6 which may be secured in position by suitable pins 6' or, if desired, the post may be formed as an integral part of the meridian ring. On this post is formed an annular shoulder 7 adapted to support a supporting washer 8 and surrounding the post and supported on the washer 8 is a supporting disc 9. This disc is provided with an annular supporting flange 10 and has an annular raised or struck up portion 11 forming a bearing or bearing surface for the globe. The globe is provided with an opening in its lower end sufficiently large to accommodate the bearing member 11 and the walls of this opening are protected by a sheet metal grommet 14. The post 6 is adapted to be extended above the disc 9 and this extended por-

tion is screw threaded as at 15 to receive a coiled spring 16 which, in turn, supports the lamp socket 17 provided with an illuminated lamp 18. The lamp socket 17 is provided with a threaded stem 19 which threads into the upper end of the coiled spring 16, the stem 19 and the top of the post 15, however, being sufficiently spaced apart so that a resilient coupling is provided between the lamp socket 17 and the post 6. The globe 3 is adapted, at its lower end, to be supported on the annular flange 10 of the disc 9 and at its upper end is provided with an opening surrounded with a sheet metal disc 13 into which extends a bearing pin 20' threaded through a hollow post 20 at the upper end of the meridian ring 2. It will be noted that the axes of the disc 9, the bearing member 11 and the pin 20' are coincident with the polar axis of the globe so that the globe will be supported to rotate on its polar axis and that when supported in this position, a firm support is provided by the disc 9.

Due to the fact that, in order to remove the globe from the meridian ring the globe must be swung laterally so that it will clear the top of the meridian ring before it can be moved vertically to clear the lamp 18, under ordinary circumstances this would be impractical, but the provision of the flexible coupling between the lamp socket 17 and the post 6 when the globe is swung out of the meridian ring there will be sufficient flexibility in the coupling to permit the lamp socket and lamp to move to a position whereby the globe may be pulled vertically over the socket and lamp thus permitting the same to be readily removed. In the same manner the globe may be inserted in position by bending the flexible coupling to permit the lamp to be inserted in the opening and the globe then seated on the flange 10. As the globe is swung into its final position to receive the securing pin 20' the coupling will straighten out the lamp socket and this coupling straighten out the lamp socket and this coupling, while being sufficiently flexible to permit the swinging of the lamp socket thereon, is sufficiently stiff to maintain the lamp socket in an upright position when no pressure is applied thereto so that the lamp socket is maintained, during normal conditions, with its axis coincident with the polar axis of the globe thereby permitting a free rotation of the globe.

I claim as my invention:

1. In a mounting for hollow terrestrial globes having an opening therein to receive an illuminant, the combination with a base and a meridian ring supported thereby, of a globe support rig-



idly mounted on said ring comprising a supporting member adapted to receive and support said globe and a bearing member extending upwardly from said supporting member and adapted to project into the opening of said globe, a second support for the globe mounted on said meridian ring diametrically opposite said first support and releasable to free the globe therefrom, said bearing member and supports having a common axis, a lamp socket adapted to be projected into the globe and means carried by said base for supporting said lamp socket to permit the same to swing thereon at an angle to its axis, said means normally supporting said lamp socket on an axis substantially coincident with the axis of said supports.

2. In a mounting for hollow terrestrial globes having an opening therein to receive an illuminant, the combination with a base and a meridian ring supported thereby, of a globe support carried by said base comprising a supporting member adapted to support the globe and a bearing member extending upwardly from said supporting member and adapted to project into said opening, a second support for the globe mounted on said meridian ring diametrically opposite said first support and releasable to free the globe therefrom, said first-mentioned support being rigidly supported by said base, a lamp socket adapted to be projected into the globe through said opening and a flexible support for said lamp socket carried by said base normally maintaining the same in substantial axial coincidence with the axes of said supports and sufficiently flexible to permit the lamp socket to be swung out of axial alignment.

3. In a mounting for hollow terrestrial globes having an opening therein, the combination with a base and a meridian ring supported thereby, of a globe support mounted on said base comprising a supporting member adapted to receive and support said globe and a bearing member extending upwardly from said supporting member adapted to project through the opening in said globe, a second support for the globe carried by said meridian ring diametrically opposite said first support and releasable to free the globe therefrom, said bearing and supports having a common axis, a lamp socket adapted to be projected into the globe through said opening and a coiled spring extending upwardly from said first-mentioned support and adapted to receive the lower end of said lamp socket to provide a flexible coupling between said lamp socket and the meridian ring.

4. In a mounting for hollow terrestrial globes having an opening therein, the combination with a base and a meridian ring supported thereby, of a post extending upwardly from said meridian ring, a support for the globe mounted on said meridian ring diametrically opposite said post and in axial alignment therewith and releasable from the globe, a second support for the globe comprising a disc rigidly mounted on said post adapted to support the globe and having an annular flange extending upwardly therefrom and spaced apart from the periphery of said disc to provide a shoulder on said disc adapted to project into the opening of said globe, a coiled spring mounted on said post and a lamp socket supported by said coiled spring.

5. In a mounting for hollow terrestrial globes having an opening therein to receive an illuminant, the combination with a meridian ring of means associated therewith for rotatably and tiltably supporting said globe, a second support mounted on said ring diametrically opposite said first support and releasable to permit said globe to tilt, a lamp socket associated with said supporting means and normally supported with its axis substantially coincident with the axis of the globe and projecting into the globe, and a resilient mounting for said lamp socket associated with said support adapted to maintain said lamp socket in its normal position while permitting said lamp socket to be deflected relatively to said support.

6. In a globe mounting for hollow terrestrial globes having an opening therein to receive an illuminant, the combination with a base and a meridian ring supported thereby, of a globe support carried by said base adapted to receive and support the globe, a bearing member on said support arranged to extend into said opening and provide a bearing therefor, said support and bearing member being rigidly supported on said base, a second support for said globe mounted on said meridian ring diametrically opposite said first-mentioned support, means for holding said globe on said base with its rotatable axis coincident with the axis of said bearing member, a lamp socket adapted to project into said globe through said opening and normally supported on said base with its axis coincident with the rotatable axis of the globe, and a flexible support for said lamp socket carried by said base to permit said socket to be deflected from its normal position during the removal of the globe from said support.

EDWARD A. PETERSON.

CERTIFICATE OF CORRECTION.

Patent No. 2,149,228.

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It is hereby certified that error appears in the above numbered patent requiring correction as follows: In the grant, and in the heading to the printed specification and drawing, title of invention, for the word "ILLUMINATING" read ILLUMINATED; page 1, first column, line 1, for "rleates" read relates; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 11th day of April, A. D. 1939.

Henry Van Arsdale

(Seal)

Acting Commissioner of Patents.