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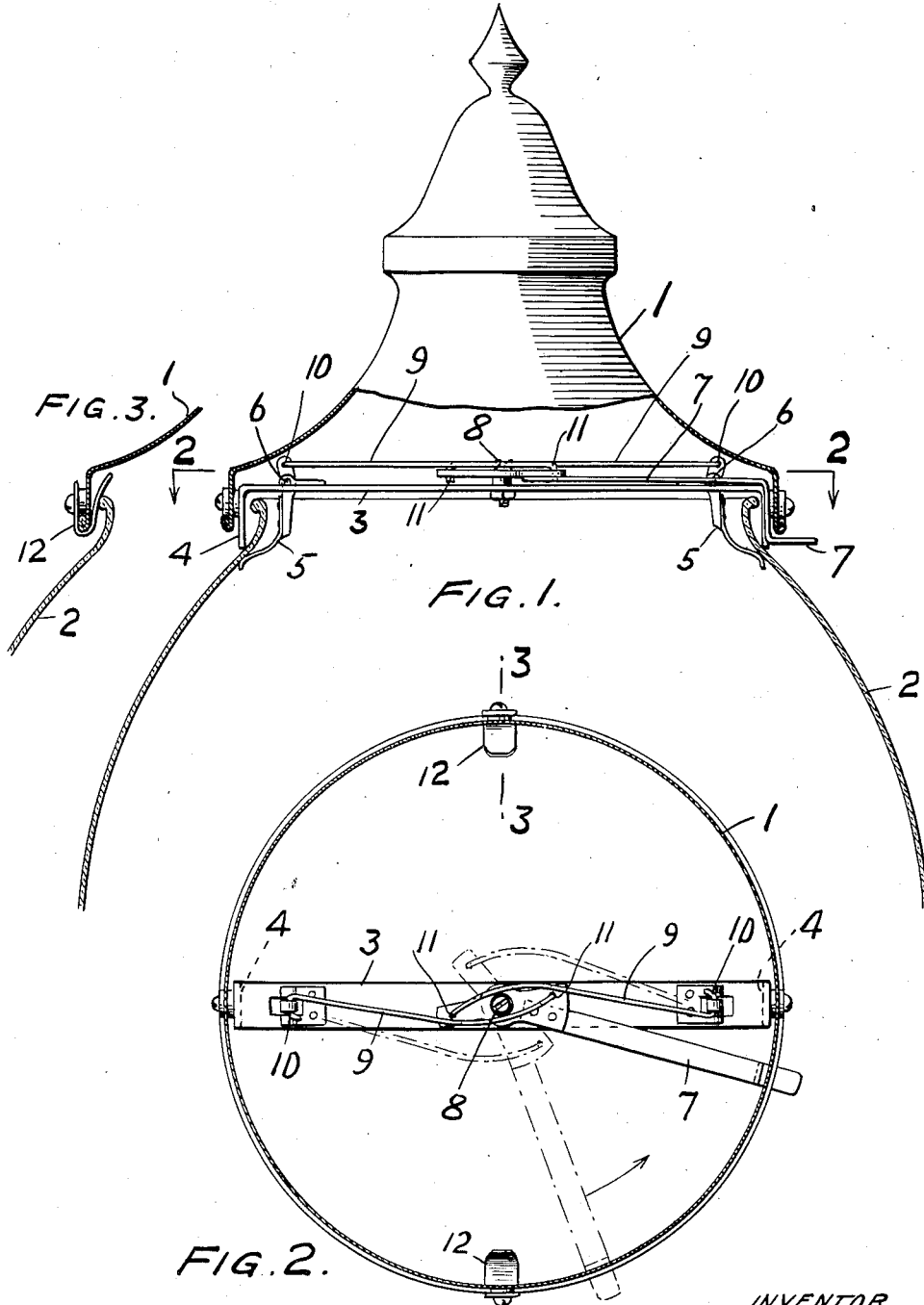
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MEANS FOR CONNECTING STREET LIGHT GLOBES AND THEIR CAPS

Filed May 31, 1933

2 Sheets-Sheet 1



WITNESS:

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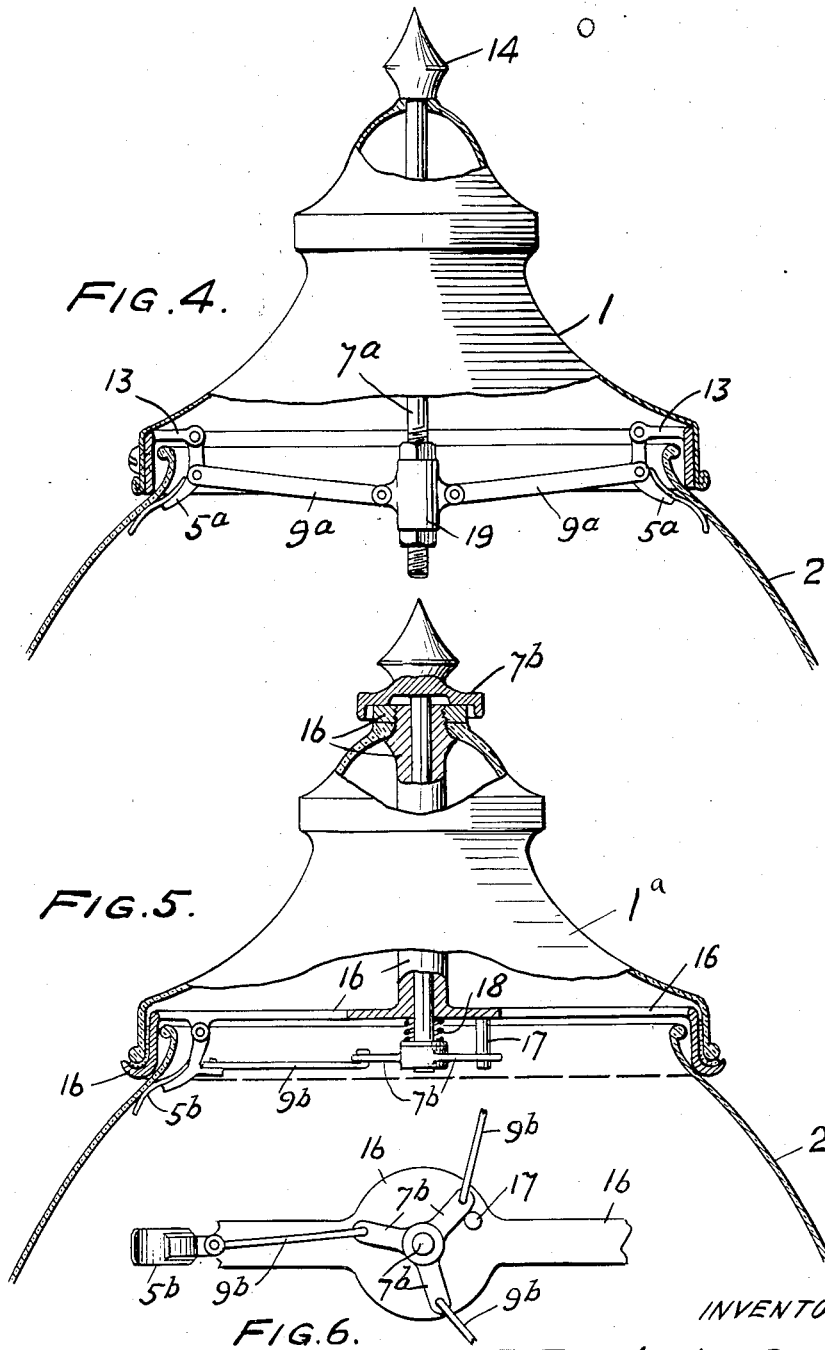
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UNITED STATES PATENT OFFICE

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MEANS FOR CONNECTING STREET LIGHT GLOBES AND THEIR CAPS

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5 Claims. (Cl. 240—133)

The principal objects of the present invention are to provide for conveniently and rapidly attaching and detaching a cap to and from the glass globe which it surmounts; to provide firm and strong connection between the cap and globe; to avoid breakage of the globes in attaching and removing the caps; and to provide not only for the use of metal caps, but also for the use of glass caps.

Other objects of the present invention will appear from the following description at the end of which the invention will be claimed.

Generally stated, the invention consists in a frame on the cap adapted to seat on the outside of the neck of the glass globe and provided with pivotally mounted spring fingers adapted to engage the inside of the neck of the globe and with a movable, hand-operated member, there being a stop for the member, and links pivotally connected with the fingers and with parts of the member which pass the pivot points of the fingers in the movement of the member into engagement with its stop.

The invention also consists in the improvements to be presently described and finally claimed.

In the following description reference will be made to the accompanying drawings forming part hereof and in which

Figure 1 is an elevational view, partly in section, illustrating features of the invention.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a view similar to Fig. 1 illustrating a modification.

Fig. 5 is a similar view illustrating another modification and showing a glass cap, and

Fig. 6 is a view looking upwards in Fig. 5 and showing details of construction.

In the drawings 1 is the cap and 2 is the glass globe which is usually supported from beneath upon the top of a lamp post or column. A frame shown as a bar 3 is connected with the cap 1, and the ends of the bar are turned down and constitute feet 4 which rest upon the outside of the neck of the globe and space the cap above the globe. Pivoted to the bar are spring fingers 5 and they are turnable about their pivot points 6 into and out of engagement with the inside of the neck of the globe. There is a hand lever 7 pivoted to the bar by the pivot 8, and it extends through the space between the cap and globe provided by the feet 4. Links 9 are pivoted to the fingers 5, or more accurately, to extensions 10

thereof, and to parts 11 of the lever 7, which pass the pivots 6 when the lever 7 is turned into the full line position of Fig. 2 with the links in contact with the pivot 8, as a stop. 12 designates spring clips attached to the cap 1 and arranged between the feet 4, and they engage the outside of the neck of the globe and prevent the cap from wobbling.

With the parts in the positions shown in full lines, the spring fingers 5 press upon the inside of the neck of the globe 2 and react through the links 9 against the stop 8 so that the cap is firmly held upon the top of the globe and retrograde movement of the hand lever 7 is opposed. To detach the cap for removal, the hand lever 7 is turned into the dotted line position, with the result that the spring fingers 5 are turned clear of the globe, so that the cap can be lifted off from the top of the globe. The reversal of the described operations serves to connect the cap with the globe. All that is required of the operator is the simple movement of the hand lever 7 which can be effected with one hand leaving the other hand free for moving the cap 1. The cap can therefore be readily removed from and replaced on the globe and connected and disconnected in respect to the globe. The spring fingers 5 and spring clips 12 while firmly gripping the neck of the globe have no tendency to break or crack it.

In the modification shown in Fig. 4, the construction and mode of operation are as above described except as follows: The spring clips 12 are omitted and the cap rests upon the outside of the neck of the globe. The spring fingers 5^a are pivoted to brackets 13 connected with the cap 1. The hand lever 7^a is mounted for up and down endwise movement through the top of the cap which operates in connection with the head 14 as a stop. The links 9^a are pivoted to a collar 19 adjustably fast on the lever or member 7^a at points which pass the dead center of the linkage formed by the member 7^a, the link 9^a, and the fingers, when the head is moved against the cap 1. Up and down movement of the head 14 can be effected with one hand leaving the other hand free.

The construction and mode of operation of the modification shown in Figs. 5 and 6 are as above described except as follows: The cap 1^a is of glass and is mounted in the frame 16. The hand operated member 7^b is turnable in the frame 16 and the links 9^b are pivoted to parts of the member 7^b which pass the plane in which the spring fingers 5^b are pivoted as the member 7^b is turned

towards its stop 17. A spring 18 is shown and it serves to position the member 7^b for turning movement in the frame 16.

5 It will be obvious to those skilled in the art to which the invention relates that modifications may be made in details of construction and arrangement and matters of mere form without departing from the spirit of the invention which is not limited to such matters or otherwise than 10 the prior art and the appended claims may require.

I claim:

1. Means for detachably connecting glass globes and their superposed caps which comprise pivotal spring fingers connected with the cap and adapted to engage and disengage the inside of the neck of the globe, a manually operable movable member carried by the cap, a stop for the member, and links connecting the fingers and member at parts thereof which pass the pivot points of the fingers, whereby the spring fingers when in engaging position operate on the globe to press the member against the stop. 15 20

2. Means for detachably connecting glass globes and their superposed caps which comprise, in combination, a bar connected with the cap and having feet adapted to rest upon the outside of the neck of the globe to provide space between the globe and cap, a manually operable lever pivoted to the bar and projecting through said space, a pair of spring fingers pivoted to the bar and adapted to engage and disengage the inside of the neck of the globe, links pivoted to the fingers and to portions of the lever which pass the pivot points of the links, a stop for the links, and spring clips carried by the cap and adapted 25 30 35

to engage the outside of the neck of the globe to steady the cap.

3. Means for detachably connecting glass globes and their superposed caps which comprise, in combination, a manually turnable hand lever carried by the cap, a stop for the lever, spring fingers pivotally connected with the cap and adapted to engage the inside of the neck of the globe, and links pivotally connected with the fingers and with parts of the lever which pass the pivot points of the fingers. 5 10

4. Means for detachably connecting glass globes and their superposed glass caps which comprise a frame secured to the top and bottom of the glass cap, a hand lever turnably mounted in the frame, a stop for the lever, spring fingers pivoted to the frame and adapted to engage and disengage the inside of the neck of the globe, and links pivoted to the fingers and to parts of the lever which pass the dead center of the linkage formed on the fingers, the links, and the lever. 15 20

5. Means for detachably connecting glass globes and their superposed caps which comprise, in combination, a frame on the cap adapted to seat on the outside of the neck of the globe, spring fingers pivoted to the frame and adapted to engage the inside of the neck of the globe, an operating member movably carried by the frame, a stop for the member, and links pivotally connected with the fingers and with parts of the member which pass the dead center of the linkage formed of the member, the links, and the fingers during the movement of the member. 25 30 35

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