

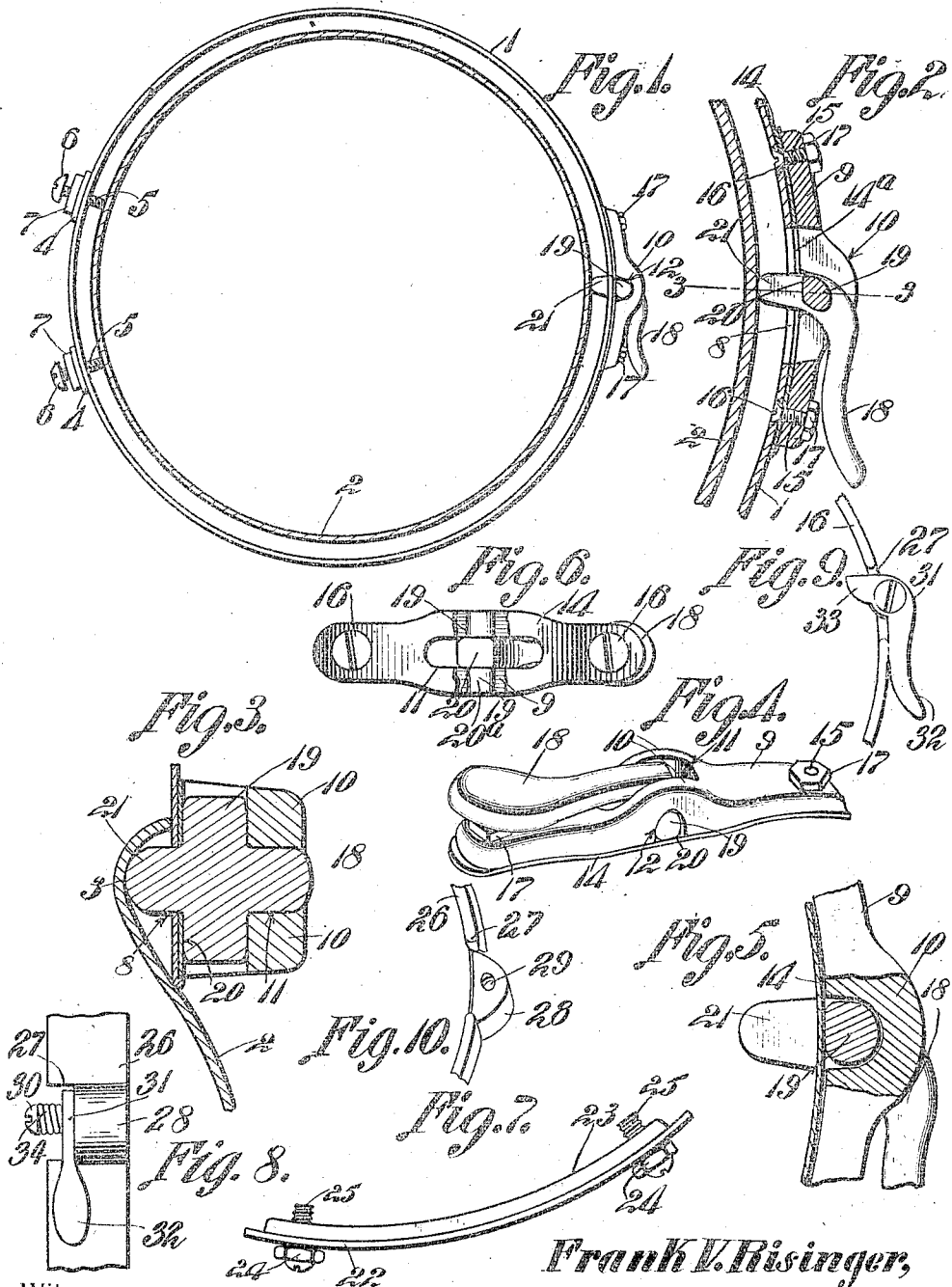
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CLASP.

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Witnesses

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CLASP.

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To all whom it may concern:

Be it known that I, FRANK V. RISINGER, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented a new and useful Clasp, of which the following is a specification.

The device forming the subject-matter of this application, is adapted to be employed for maintaining a globe in a globe-holder:

The invention aims to provide a novel form of cam lever, adapted to engage the globe, and to provide a novel form of spring means which will at once reinforce the globe support and constitute a means for maintaining the globe-engaging finger of the lever in globe-engaging position.

A further object of the invention is to provide novel means for supporting a globe upon opposite sides of a diameter passing through the globe-engaging finger of the cam lever, at a point opposite to the globe-engaging finger.

A further object of the invention is to improve generally, devices of that type to which the present invention appertains.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings,—Figure 1 shows in transverse section a globe-holder equipped with the devices constituting the subject-matter of the present invention; Fig. 2 is a section of the supporting mechanism for the cam lever, the cam lever being depicted in globe-engaging position; Fig. 3 is a section upon the line 3—3 of Fig. 2; Fig. 4 is a detail perspective of the globe-engaging member and its controlling and supporting parts; Fig. 5 is a section of the globe-holding member, the view depicting the operative connection between the cam shaft and its controlling spring; Fig. 6 is a bottom plan of the structure shown in Fig. 4, parts being broken away; and Fig. 7 is an elevation showing a modified means for retaining the globe, which means is adapted to be employed with that portion of the

structure which appears in Fig. 2. Fig. 8 is a side elevation showing a modified form of the invention; Fig. 9 is an elevation of the structure shown in Fig. 8, the view point in Fig. 9 being at right angles to the view point in Fig. 8; and Fig. 10 is a perspective of the globe support employed in that form of the invention which is shown in Figs. 8 and 9.

In carrying out the invention there is provided a globe support 1, which may be of any form. Within the globe-support 1, a globe 2 is located. About its periphery, the globe 2 is equipped with the usual depression 3, which, coöperating with suitable means located upon the globe-support 1, serves to retain the globe in position within the globe-support.

When the globe-support 1 is fashioned from relatively thin material, a pair of spaced thimbles 4 may be mounted in the support, these thimbles receiving adjusting screws 5, equipped at their outer ends with suitable heads 6, there being locking nuts 7 upon the screws 5, for the obvious purpose of holding the screws against rotation. The screws 5, as will be understood readily, from an inspection of Fig. 1, are adapted to engage spaced points upon the globe 2, to hold the globe, in coöperation with manually operable, oppositely disposed means which will be described hereinafter.

The globe-support 1 is provided, preferably at a point opposite to the screws 5, with an opening 8. A base 9, preferably of curvilinear form, is provided, the base 9 having projecting ears 10, between which is located a longitudinally extended opening 11, prolonged entirely through the base 9. In the under face of the base 9 there is a transverse bearing recess 12, intersecting the opening 11.

Interposed between the base 9 and the globe support 1 is a spring plate 14, having an opening 14^a, of substantially the same area as the opening 8 in the globe-support 1. Securing bolts 15 unite the globe-support 1 with the ends of the spring plate 14 and with the ends of the base 9, the heads 16 of the bolts preferably being counter-sunk into the inner face of the globe-support 1, the bolts carrying at their outer ends, nuts 17, adapted to engage the outer face of the base 9; although, obviously, any other suitable means may be provided for

holding the support 1, the spring plate 14 and the base 9 together.

The invention further includes a cam lever 18, mounted in the base 9, to swing in the direction of the length of the base. The cam lever 18 is equipped with a transverse cam shaft 19, journaled in the bearing recess 12, and held therein by the spring plate 14. The cam shaft 19 is equipped with a cam edge 20, adapted to engage the spring plate 14, upon both sides of the opening 14^a therein, to put the spring plate under tension. The cam shaft 19 is provided with a flat face 20^a, having functions which will be set forth hereinafter. Projecting from the intermediate portion of the cam shaft 19 is a globe-engaging finger 21, adapted to protrude through the opening 8 in the globe-support 1, so as to engage the globe 2. When the finger 21 is in the globe-engaging position shown in Fig. 2, the spring plate 14 will lie along the flat face 20^a, holding the finger in globe-engaging position, it being obvious that when the cam lever is swung into the position shown in Fig. 2, the cam edge 20 will engage the spring plate 14, and put the same under tension. As will be readily understood, the finger 21 is adapted to engage the globe 2 in the depression 3.

The spring plate 14 serves to reinforce the globe-support 1, upon both sides of the opening 8, so that the support will not be bent unduly by the action of the cam shaft 19. When the cam lever 18 is swung upon its fulcrum, to move the finger 21 out of globe-engaging position, the finger will be housed in the opening 11 in the base 9. As clearly shown in Fig. 1, the screws 5 are adapted to engage the globe 2 upon opposite sides of a diameter passing through finger 21, and thus a three-point support for the globe is provided. Moreover, the screws 5 may be adjusted, and may be held in adjusted positions by means of the lock nuts 7, to accommodate globes of different diameters.

If desired, the device may be modified as shown in Fig. 7. In this structure, the globe-support is denoted by the numeral 22,

and to the inner face thereof is applied a bar 23, held in place adjustably for movement toward and away from the holder 22 by screws 25 provided with lock nuts 24. The bar 23 is adapted to engage the globe 2 similarly to the screws 5, and exercises a function similar to that exercised by the screws.

In Figs. 8, 9 and 10, a modified form of the invention is shown. As there depicted, the globe-support is denoted by the numeral 26, and is provided in its upper edge with a notch 27, at the base of which a laterally projecting lug 28 is formed. The lug 28 is equipped with an opening 29, receiving a screw 30. Mounted to swing on the screw 30 is a cam lever 31, having a finger piece 32 and cam head 33. The operation of the structure shown in Figs. 8, 9 and 10 will be readily understood from what has been said heretofore with respect to the cam lever 18 and attendant parts, it being understood that the lever 31 is employed for the same purpose as is the cam lever 18. The spring means for controlling the movement of the cam lever 31 comprises a helical spring which surrounds the screw 30 and abuts at one end against the head of the screw, the other end of the helical spring bearing against the cam lever 31, to thrust the same against the lug 28. The structure shown in Fig. 9 may be combined with the opposed globe engaging means of Fig. 1 or Fig. 7.

Having thus described the invention, what is claimed is:—

In a device of the class described, a globe-support; a cam lever mounted to swing upon the globe-support; globe-engaging means positioned upon the support opposite to the cam lever; and a device for holding the globe-engaging means spaced at adjusted distances with respect to the cam lever.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

FRANK V. RISINGER.

Witnesses:

THOMAS WOODWARD,
GRACE H. OWINGS.