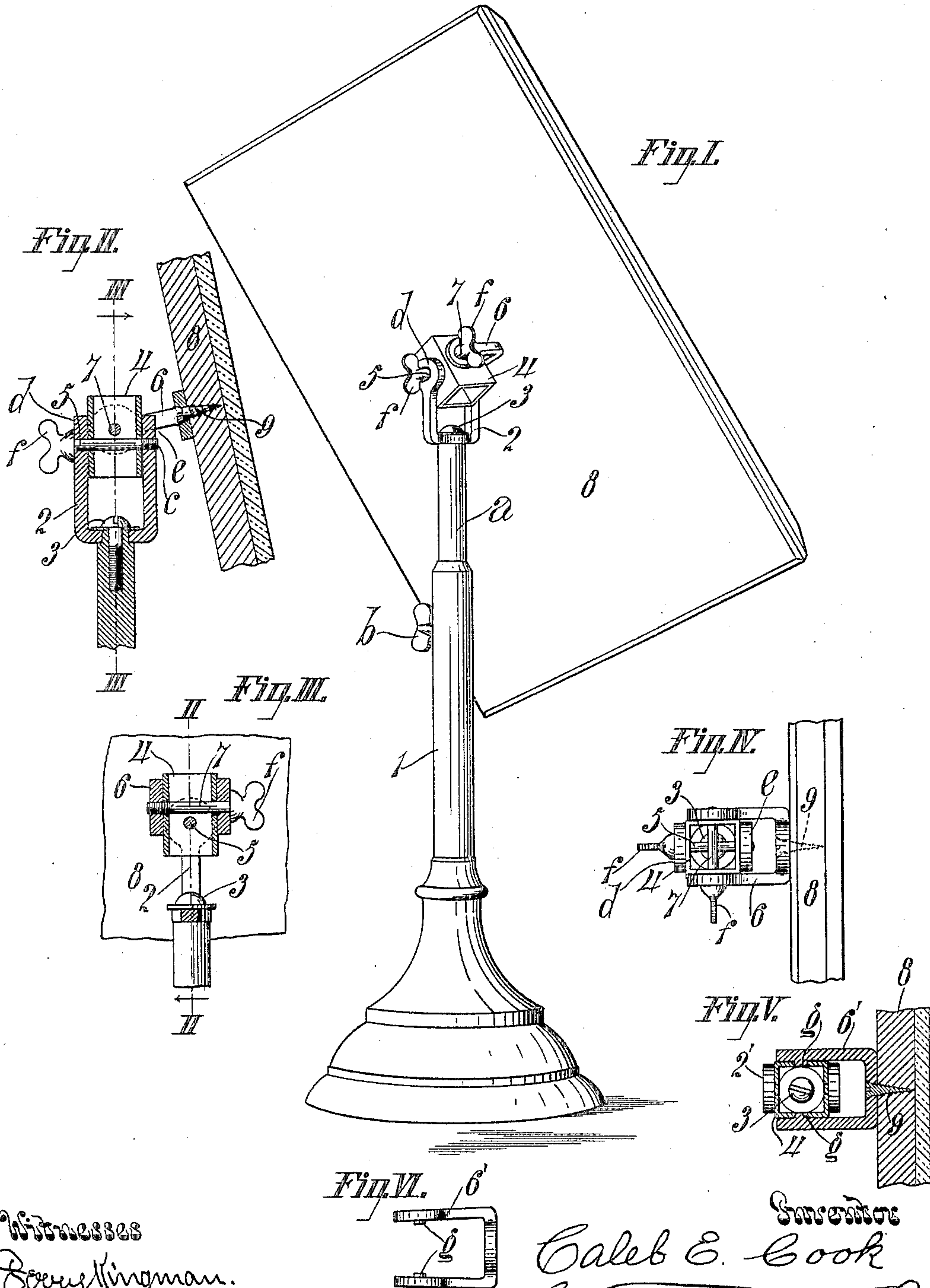


No. 660,049.

Patented Oct. 16, 1900.

C. E. COOK.
UNIVERSAL SUPPORT.
(Application filed Feb. 5, 1900.)

(No Model.)



Witnesses
Booy Kingman.
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UNITED STATES PATENT OFFICE.

CALEB E. COOK, OF WHITTIER, CALIFORNIA.

UNIVERSAL SUPPORT.

SPECIFICATION forming part of Letters Patent No. 660,049, dated October 16, 1900.

Application filed February 5, 1900. Serial No. 4,108. (No model.)

To all whom it may concern:

Be it known that I, CALEB E. COOK, a citizen of the United States, residing at Whittier, in the county of Los Angeles and State of California, have invented a new and useful Universal Support, of which the following is a specification.

The object of my invention is to provide a joint for supporting mirrors, exhibit-stands, and the like.

It is an object of this invention to provide means for adjusting the mirror or other object and holding it in the position desired without moving the standard upon which the mirror or other object is mounted.

My invention is adapted to be adjusted so that when used as a mirror-support the mirror can be turned into any position without the manipulation of any of the parts of the joint and will be held in such position. The device is also so constructed that when the invention is used as an exhibit-stand for exhibiting articles such as shoes, cut glass, &c., in show-windows the user can clamp the joint so that it will remain rigid under any strain to which it is liable to be subjected and can be readily unclamped and changed to any desired position and can instantly be clamped rigidly in the desired position.

My invention comprises a block and two clevises pivoted friction tight upon said block and in which the axis of each clevis-pivot intersects a plane in which the axis of the other clevis-pivot lies. The arms of the clevises are of sufficient length to allow each of the clevises to swing over the ends of the block, and the clevises are pivoted to the block, respectively, by clamp-screws (one for each clevis) inserted through one arm of its clevis and through the block and screwed into the opposite arm of its clevis, the axis of each clamp-screw intersecting a plane in which the axis of the other clamp-screw lies.

The accompanying drawings illustrate my invention.

Figure I is a rear view of a stand-mirror embodying my invention in one of the forms in which it may be applied. Fig. II is a sectional elevation of the support-joint on line II II, Fig. III. Fig. III is a section of the support-joint on line III III, Fig. II. Fig. IV is a plan of the appliance, showing the

parts in position when the mirror stands in a vertical plane. Fig. V is a like plan view of a modified form, portions being in section to illustrate the modified construction. Fig. VI is a view of the clevis shown in Fig. V removed from the swivel-block.

1 indicates the standard, which may be of any desired form or character. The standard is provided with a telescoping member *a*, held by a set-screw *b*.

2 indicates a clevis pivoted to the standard by a pivot 3.

4 indicates a swivel-block to which the clevis is pivoted friction tight. The clevis may be pivoted friction tight by various means.

In Figs. I, II, III, and IV, 5 indicates a pivot-pin for pivoting the clevis to the block and provided with a screw *c*, which passes through the arm *d* of the clevis 2 and screws into the arm *e* of said clevis for drawing the arms of the clevis together to clamp the same upon the block 4. *f* indicates the winged head of the screw, by which the screw can be readily turned to tighten or loosen the joint. 6 indicates a second clevis pivoted to the block by a pivot-pin 7, which is a screw similar to the pivot-pin 5 and is arranged to draw the ends of the arm of the clevis 6 together to clamp the block 4. 8 indicates the mirror or other object to be supported. 9 indicates a screw by which the mirror or other object to be supported is fastened to the clevis 6. The pivot-pin of each clevis intersects the plane in which the axis of the other pivot lies, so that the effect of a universal joint is provided for; but by reason of the frictional character of the joint the mirror or other object will be held stationary in whatever position it may be placed, and the mirror or other object can be brought to any angle desired.

In the form shown in Figs. V and VI the clevises 2' and 6' are made of spring material, and the ends are adapted to normally spring inward, so as to tightly clamp the block 4, thus to afford sufficient friction to accomplish the desired purpose. The clevises 2' 6' have pivots *g* to seat in the block.

In practical use to adjust the mirror or other object the same is grasped by the hand and moved into the desired position, the frictional action of the joints being only sufficient to

securely hold the mirror or other object from displacement under the forces which are liable to act upon the same when it is not being intentionally adjusted.

5 What I claim, and desire to secure by Letters Patent of the United States, is—

1. A support-joint comprising a block and two clevises which embrace the block and are of sufficient length to allow the clevises to
10 swing over the ends of the block; a clamp-screw inserted through one of the arms of one of the clevises and through the block and playing freely therein and screwed into the arm of said clevis on the other side of the
15 block; and a clamp-screw inserted through one of the arms of the other clevis and through the block and playing freely therein, and screwed into the other arm of said other clevis, the axis of each of said clamp-screws
20 intersecting a plane in which the axis of the other clamp-screw lies.

2. A supporting-joint comprising a block provided with two pairs of oppositely-arranged plane faces; a vertical supporting-

clevis to fit upon the block and engaging the 25 opposite faces of said block and being perforated and having a screw-threaded perforation in one of the arms of said clevises; a screw inserted through the other arm of said clevis and through the block and playing 30 freely therein and screwed into the screw-threaded hole in the other arm; a second clevis fitted upon two other opposite faces of said block and perforated and provided with a screw-threaded hole in one of its arms; a screw 35 inserted through the other arm and through the block and screwed into said screw-threaded hole; a post; and a screw for swiveling said second clevis upon said post, substantially as hereinbefore set forth. 40

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, at Los Angeles, California, this 29th day of January, 1900.

CALEB E. COOK.

Witnesses:

JAMES R. TOWNSEND,
JULIA TOWNSEND.