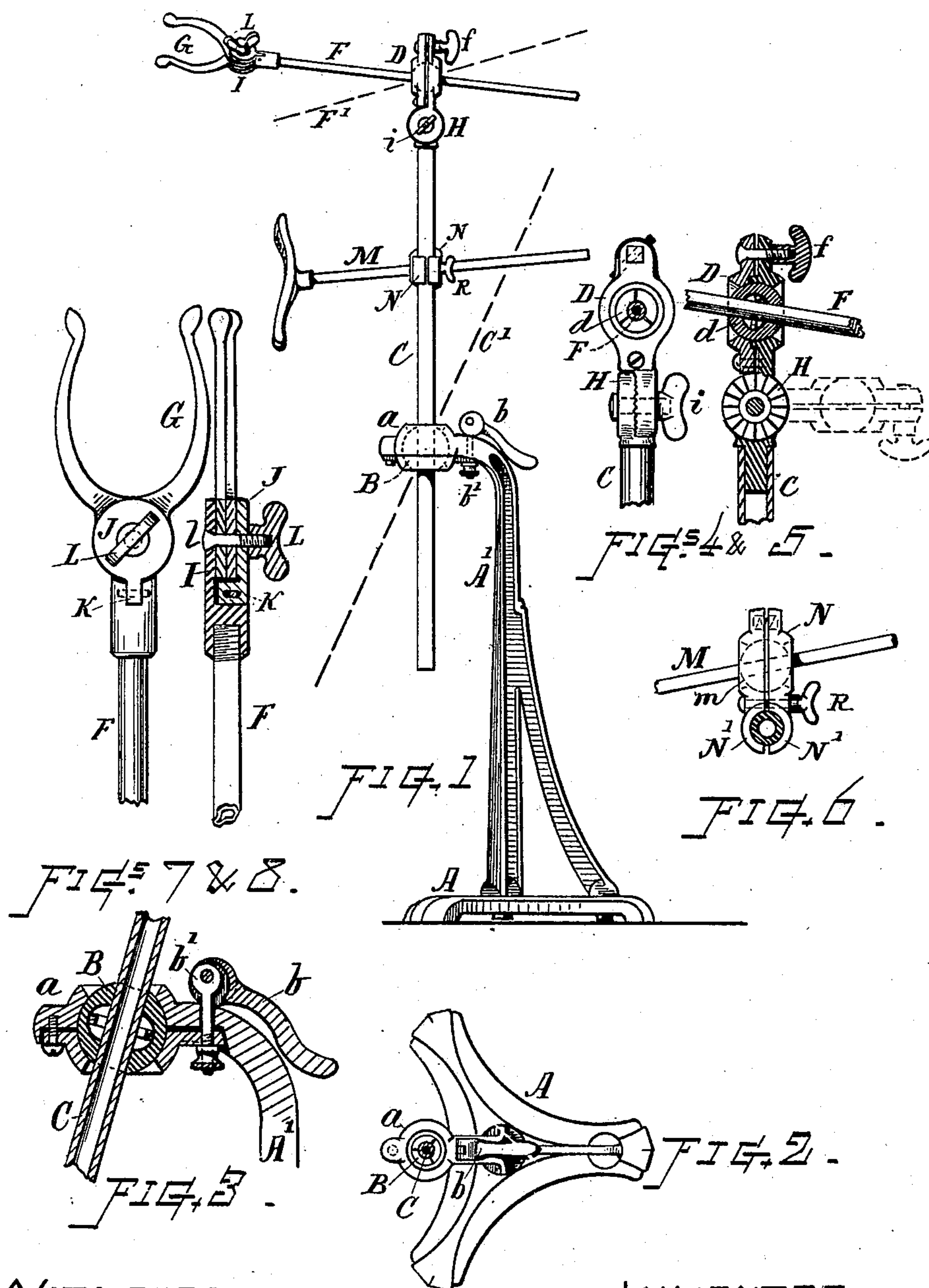


(No Model.)

O. C. WHITE.
PHOTOGRAPHIC POSING SUPPORT.

No. 316,101.

Patented Apr. 21, 1885.



WITNESSES

Geo. M. Rice 2^d

Frank Lawrence

INVENTOR

Otis C. White

By Chas. H. Burleigh
Attorney

UNITED STATES PATENT OFFICE.

OTIS C. WHITE, OF WORCESTER, MASSACHUSETTS.

PHOTOGRAPHIC POSING-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 316,101, dated April 21, 1885.

Application filed July 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, OTIS C. WHITE, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Photographic Posing-Supports; and I declare the following to be a description of my said invention sufficiently full, clear, and exact to enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

The objects of my present invention are to provide a posing-rest or supporting apparatus for the use of photographers, artists, and others for sustaining subjects or models in posture, and for other useful purposes in the arts wherein great variety and extent of movement is desired and perfect fixation at any position or adjustment within the range of action required; to provide a posing-support wherein the adjusting joints are arranged as balls and sockets with sliding rods, and fitted with means for clamping the adjustable parts in a simple, convenient, and effective manner and at any position required; to provide a pedestal and standard with an upright rod that can be adjusted vertically, longitudinally, and to inclined positions with facility; to provide a pedestal, standard, and vertically-adjustable rod with one or more lateral universally-adjustable rods or supporters; to afford facilities for adjusting the head of the upright or main rod to different degrees of diagonal inclination in relation to the rod, and to afford improved means for securing the adjustable head-supporting fingers to the end of their sustaining-rod. These objects I attain by mechanism the nature, construction, and operation of which is illustrated in the drawings, and explained in the following description, the particular subject-matter claimed being hereinafter definitely specified.

In the drawings, Figure 1 is a side view of my improved posing-support. Fig. 2 is a plan view of the pedestal and standard with its ball and socket and clamp devices. Fig. 3 is a vertical section on larger scale through the

ball and socket of the standard. Figs. 4 and 5 show side and section views of the adjustable head of the main rod with the ball-and-socket joint for carrying the lateral head-rod. Fig. 6 is a section of main rod and plan of the connecting-socket for the intermediate supporting-rod, and Figs. 7 and 8 show on a larger scale the connecting-joint of the head-supporters or finger with the lateral head-rod.

In referring to parts, A designates the foot or pedestal, and A' the upright standard, preferably formed of cast-iron. The lower end of the standard is rigidly fixed to the pedestal A, while at its upper end, which is bent forward or offset, as indicated, it is provided with a contractible ball-socket, *a*, carrying a sectionally-diametrically-perforated ball, B, through which is arranged the upright or main support-rod C, which is adapted to have vertical or longitudinal adjustment by sliding through the ball, or diagonal adjustment (see dotted line C') in any direction by the rolling of the ball B within the socket.

The several ball-and-socket joints herein employed are constructed and adapted for adjusting and clamping the rods, substantially in the manner described in Letters Patent of the United States No. 259,957, heretofore granted to me, and dated the 20th day of June, 1882, the ball being formed in sections, and the rod and ball being both firmly clamped at one and the same operation by the compression of the socket upon the exterior of the sectional ball, suitable screw or cam devices being employed for effecting the clamping action.

The socket *a* is arranged to be constructed for clamping the ball B and retaining the rod C at any adjusted position by means of a handle or cam-lever, *b*, in the present instance located upon the top of the curved neck of the standard, and connected to the movable under part of the socket by a bolt, *b'*, as indicated. The lower end of the bolt is provided with a thumb-nut by means of which the parts can be nicely adjusted to give the requisite contractile pressure upon the ball when the handle *b* is pressed down to the neck. When the handle or cam-lever is raised, the

rod C is free to be moved to any desired position, and when placed as desired it is there retained by pressing down the handle, the action being effected by a simple and convenient movement of the hand, while the position of the rod C is controlled by the other hand. At its top end the rod C is provided with a ball-socket or head, D, carrying a ball, *d*, through which is arranged the laterally-extending head-rod F, which in turn carries at its forward end the fingers or head-supporters G. Said rod D is longitudinally adjustable by sliding through the ball *d*, and adjustable to positions of angularity (see dotted line F') in any direction by the rolling of the ball in the socket D. The position of adjustment is released or maintained by the clamping action of the socket D, controlled by the thumb-screw *f*. The ball-socket D is connected to the rod C by an adjustable hinge or joint, H, which permits of the head or socket D being turned over in either direction, so as to stand at any desired angle in relation to the main rod C. (See dotted line, Fig. 5.) In the present instance this hinge is formed by two disks the adjacent faces of which are provided with intermeshing radial corrugations, while the center bolt is furnished with a thumb-nut, *i*, by means of which the parts can be clamped at any position of adjustment. If preferred, other means may be employed for the hinge-joint H and its retention at angular adjustment; or, again, in some cases the hinge may be omitted, the socket D being rigidly attached to the rod C in upright or inclined position. I prefer, however, the construction shown. The fingers G are connected with the end of the rod F by a clamping-socket, I, which is formed of two disks, one of which disks is rigidly secured to the sleeve or collar, which attaches to the rod F, while the other disk, J, is made with a loose hinge, as indicated at K, so that said disk can be pressed down upon the disk-shaped ends of the fingers G when the thumb-nut L on the center bolt, *l*, is screwed down, thus tightening and clamping the parts firmly together, and retaining the head-supporting ends of the fingers at any adjusted position.

By employing the socket I with disks, as shown, for embracing the ends of the fingers G, I avoid any tendency toward loosening the nut L by the swinging action of the fingers, which frequently occurs when the nut is screwed directly down upon the fingers.

At an intermediate position between the top of the standard and the head of the rod C, I arrange a support-rod, M, which may in some cases be desirable, although for ordinary purposes of simply supporting a person's head said intermediate rest would not be required. The rod M is arranged through a sectional ball, *m*, carried by a compressible socket, N, which socket may be made with adjustable jaws N', by which it can be clamped upon the rod C at any desired position.

R indicates the thumb nut and screw for clamping the part. This screw is in the present instance shown as arranged for clamping both the ball-socket and the jaws at the same movement, but separate screws could be used for the jaws and ball-socket, if preferred. The rod M has longitudinal adjustment by sliding through the ball, diagonal adjustment by the rolling of the ball in the socket, and vertical adjustment by moving the jaws up or down on the rod C. The front end of the rod is provided with a supporting-pad, S, to rest against the back of the person or at such position as may be desired. The rods C, F, and M may be formed of tubing, to give a light and stiff construction, or of solid bars, as preferred.

By constructing the apparatus with adjusting joints, arranged in the manner shown and described, complete opposition movement is obtained in all directions within the range of the mechanism, which is limited only by the lengths of the rods or the scale of construction.

What I claim as of my invention, and desire to secure by Letters Patent, is—

1. In a posing-support, a pedestal and standard provided with a ball-socket carrying a split or sectional ball with a longitudinally-adjustable support-rod arranged thereon, and a device, as cam-lever E, for clamping and releasing the ball and rod within the socket, substantially as hereinbefore set forth.
2. In a posing-support, the combination, with a pedestal and standard provided with a ball-socket, sectional ball, and clamping device, of a vertically-adjustable rod provided at its upper end with a ball-socket carrying a sectional ball with a laterally-adjustable head-rod, and devices for clamping the same at any position of adjustment, as set forth.
3. In a posing-support, the combination, with a pedestal and standard provided with a sectional ball-and-socket adjusting-joint carrying a main supporting-rod, as C, of a swiveled ball socket and joint adjusting devices attached to said rod, and provided with a sectional ball carrying the laterally-adjustable rod F, and the adjustable fingers or head-supporters G, attached to the end of said rod by a clamping-socket, I, as described.
4. The combination, with the main support-rod C and lateral head-rod F, of the ball-socket D, hinged to the said main rod, as at H, for angular adjustment, the sectional ball supporting said head-rod therein, and means for securing the parts at position of adjustment, substantially as hereinbefore set forth.
5. In a posing-support, the combination, with the pedestal and standard provided with a ball-socket and clamp devices carrying a sectional ball, with the upright adjustable rod C, having at its upper end the clamping ball-socket, sectional ball, and laterally-adjustable head-rod F, of an adjustably-attached ball-socket, N, carrying a sectional ball, *m*, and the adjustable rod M, with the support-pad S, for the purposes set forth.

6. The combination, with the upright supporting-rod C, of the compressible ball-socket N, having adjustable clamping-jaws N', for attaching it to said rod, and a sectional ball for
5 carrying the intermediate lateral support-rod M, as set forth.

7. The combination, with the rod F and adjustable fingers G, of the clamping-socket I,

having the hinged side plate, J, substantially as set forth.

Witness my hand this 15th day of July, A.
D. 1884.

OTIS C. WHITE.

Witnesses:

CHAS. H. BURLEIGH,
M. H. MURPHY.