

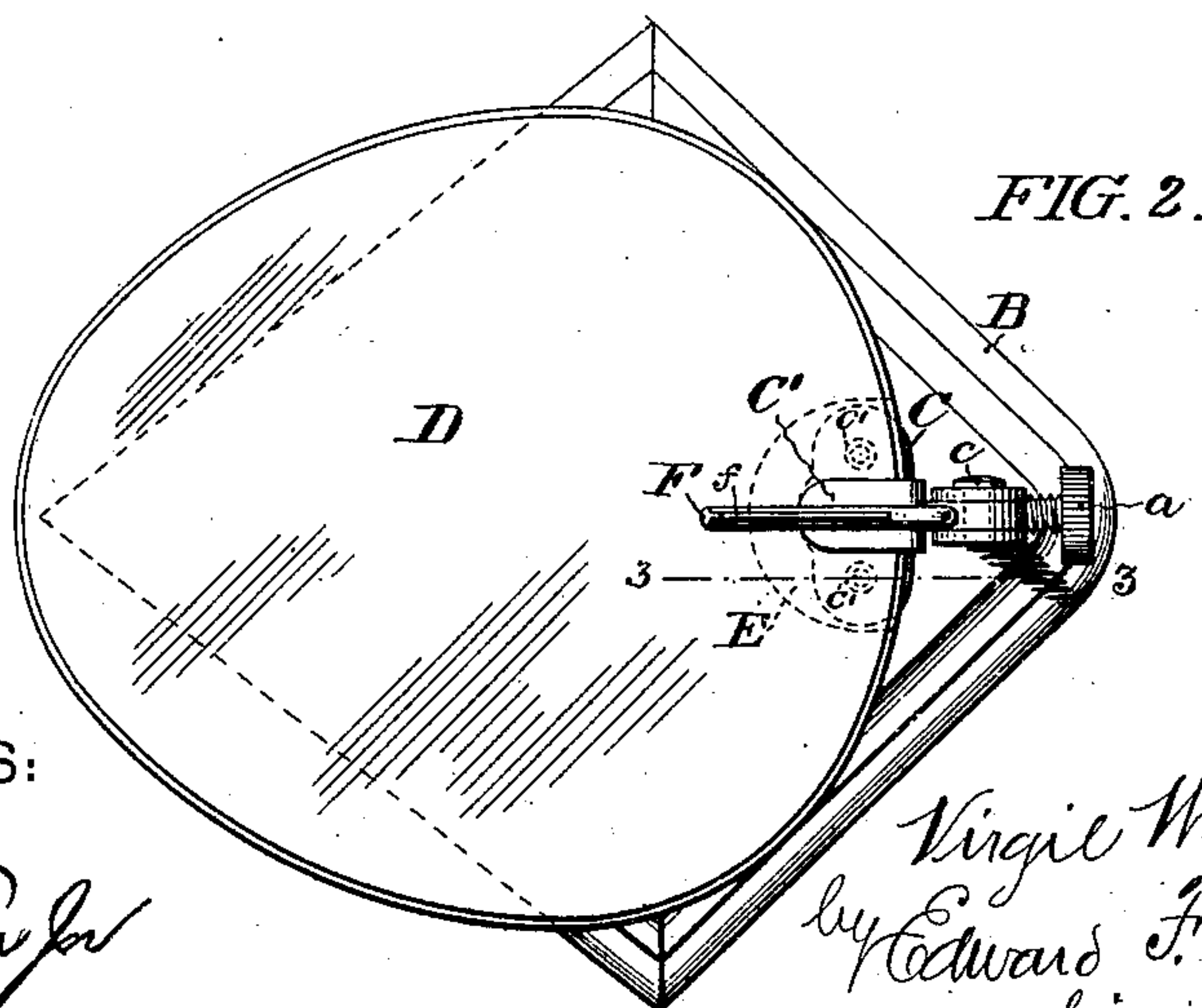
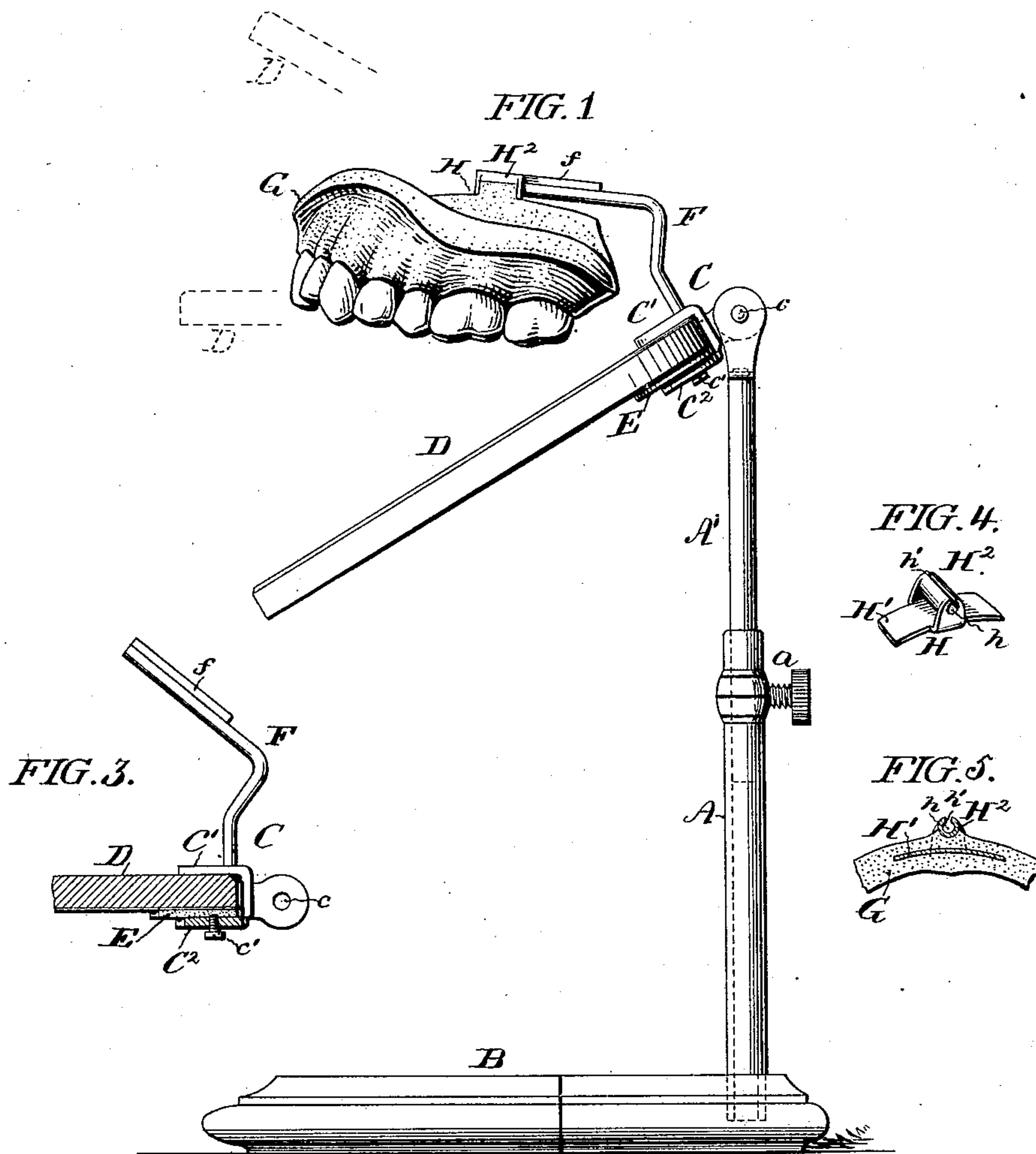
No. 673,019.

Patented Apr. 30, 1901.

V. W. GILBERT.  
SUPPORT FOR ARTIFICIAL DENTURES.

(Application filed Nov. 11, 1899.)

(No Model.)



WITNESSES:

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*his Attorney.*



# UNITED STATES PATENT OFFICE.

VIRGIL WALTER GILBERT, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR  
TO THE S. S. WHITE DENTAL MANUFACTURING COMPANY, OF SAME  
PLACE.

## SUPPORT FOR ARTIFICIAL DENTURES.

SPECIFICATION forming part of Letters Patent No. 673,019, dated April 30, 1901.

Application filed November 11, 1899. Serial No. 736,628. (No model.)

*To all whom it may concern:*

Be it known that I, VIRGIL WALTER GILBERT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Supports for Artificial Dentures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to supports or holders for displaying or exhibiting artificial dentures. It is the custom of dentists and manufacturers of artificial teeth to make exhibit-dentures by mounting artificial teeth upon wax forms. As it is desirable to show all aspects of such dentures, so that the labial, buccal, palatal, and occlusal surfaces of the teeth may be plainly seen without the necessity of handling or moving the denture, it is usual to mount these exhibit-dentures over or upon mirrors. The most common manner of accomplishing this has been to secure the denture upon one end of a bent wire supporting-stem by embedding said end of the stem in the wax form of the denture, the other end of said stem being inserted in a hole drilled in the mirror over which the denture is to be supported.

The object of my invention is to provide an improved support or holder for displaying artificial dentures which shall better meet the requirements than anything of the kind now in use.

A single embodiment of my invention is illustrated in the accompanying drawings, in which—

Figure 1 is a view in side elevation of the support, having a full upper exhibit-denture mounted thereon. Fig. 2 is a top or plan view of the support, the said denture being omitted. Fig. 3 is a view of the carrier of the support detached, the mirror-clamp thereof being shown in vertical section on the line 3 3 of Fig. 2. Fig. 4 is a perspective view of the socket-piece for securing the denture to the support, and Fig. 5 is a sectional view showing said socket-piece embedded in the wax form.

The support or holder as I now prefer to make it and as illustrated in the drawings consists of an upright standard A, the lower end of which is secured to a base-piece B, of any suitable form. The standard is tubular and has fitted in it an extensible or telescopic rod A', which may be locked in any desired position of adjustment by means of a set-screw *a*. A carrier C for a mirror and a wax form or denture is pivoted at *c* to the upper end of the rod A', so as to be capable of being rocked vertically. A mirror D is detachably secured to the carrier C by placing its rear end between a clamp consisting of two plates C' and C<sup>2</sup>, set-screws *c'* and *c'* in the lower plate C<sup>2</sup> being used to securely clamp the mirror to the carrier. A pad or strip E, of leather or other suitable material, secured to the under side of the mirror is best interposed between the mirror and the plate C<sup>2</sup> for the set-screws *c'* to bear against.

Secured to the carrier C and projecting upwardly therefrom is a bent rod or stem F, adapted to support a denture G directly over the mirror D in such position that all aspects or surfaces of the denture may be plainly visible, some of these surfaces being seen directly and others being reflected in the mirror. The connection between the denture and the supporting-stem F is readily detachable, a metallic eye or socket-piece H, partly embedded in the wax form of the denture, being adapted to slide upon said stem. The eye or socket-piece H consists of a preferably curved base portion H', which is embedded in the wax, and a socket portion H<sup>2</sup>, which projects above the upper surface of the denture. The eye or socket *h* of the socket-piece is shown as being round to fit and slide upon the round supporting-stem F, and the top of the socket-piece is provided with a slot *h'*, which is entered by a spline or feather *f* on the supporting-stem. The object of this construction is to prevent lateral turning or rocking movement of the denture about its supporting-stem, while leaving it free to be longitudinally adjusted relatively to said stem and also to be readily detached therefrom. Obviously the same object may be attained by making the stem F and the socket *h* an-



gular in cross-section instead of round or in any other suitable manner.

A holder or support constructed in accordance with my invention affords excellent and novel means for displaying or exhibiting artificial teeth mounted upon wax forms or dentures. The denture is supported in the proper position above the mirror in such manner as to reflect in the mirror the entire under surface of the denture, all portions or surfaces of the teeth and denture which are not directly visible being clearly seen in the mirror. The angle of inclination of the mirror and denture may be quickly altered, as desired, to secure the best reflection or light by simply rocking the mirror up or down about the pivot *c*. To place the denture in the most favorable position for securing the best reflection in the mirror, it may be moved backwardly or forwardly by sliding the socket-piece along the supporting-stem, while, if desired, the inclination of the denture relatively to the mirror may be varied by bending said stem *F* to the desired angle. The denture and mirror may be adjusted to any desired elevation by means of the extensible rod *A'* and set-screw *a*, this construction also providing for horizontally adjusting or turning the denture relatively to the base *B*.

Not only does my improved support render the denture carried thereby susceptible of wide, varied, and easy adjustment, but its detachable or separable construction enables the support to be quickly dismounted or taken apart and packed for transportation and then quickly assembled and mounted again. Thus the mirror may be quickly and easily connected to and disconnected from the support. The denture may also be quickly placed in proper position over the mirror or detached therefrom, while the standard is readily set up in the base or separated therefrom.

The detachable connection between the denture and its supporting-stem is of particular importance where it is desired to display the denture at a point remote from the place where the exhibit was prepared. The services of a skilled dentist are necessary in preparing and originally mounting the exhibit, after which by means of my invention the denture may be quickly connected to the support and prop-

erly adjusted to the desired position without the exercise of such particular care and skill.

Some parts of my invention may be used without the others, if found desirable. For instance, under some circumstances it may be advantageous to use the carrier without the base and standard, in which case the mirror, with the denture supported thereon by way of the carrier, may rest directly on a table or other support, or the carrier may be dispensed with and the supporting-stem secured directly to the mirror in any suitable manner. It will further be apparent that any suitable form of clamp may be employed for connecting the mirror to the carrier when the same is used. In fact, while for ordinary purposes I prefer the holder or support as a whole constructed as shown and described, I wish it to be understood that the same may be altered in various ways without departing from the spirit of my invention, the novel features of which I will specifically define in the claim at the end of this specification.

I have herein referred only to a wax-form denture; but it will be obvious that my improved holder is usable with dentures composed of other material, such as rubber, celluloid, or even metal. In case of rubber dentures the socket-piece may be embedded in the rubber before it is vulcanized, while the socket-piece may be soldered to a metal denture.

I claim as my invention—

An artificial-denture support or holder consisting of a carrier having pivotal connection with a suitable support and adapted to be rocked vertically with respect thereto, said carrier consisting of a mirror-clamp for supporting a mirror, and a supporting-stem projecting from said carrier over and above said mirror, in combination with an artificial denture having detachable connection with said supporting-stem, substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

VIRGIL WALTER GILBERT.

Witnesses:

JAMES H. BELL,  
T. B. VAILL.