E. S. WIGGINS.

ADJUSTABLE CLAMPING SUPPORT FOR SPECTACLES AND THE LIKE.

APPLICATION FILED DEC. 30, 1910.

1,013,711. Patented Jan. 2, 1912.

Fig 1

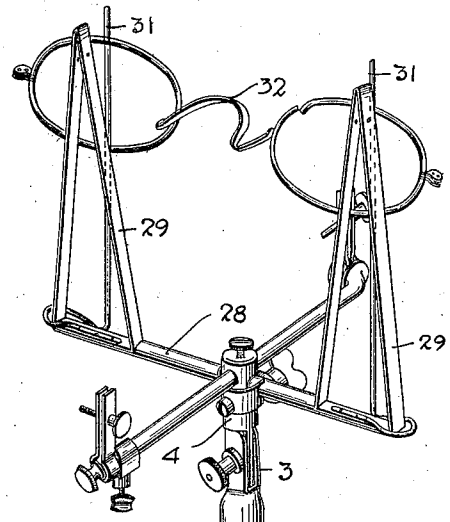


Fig 2

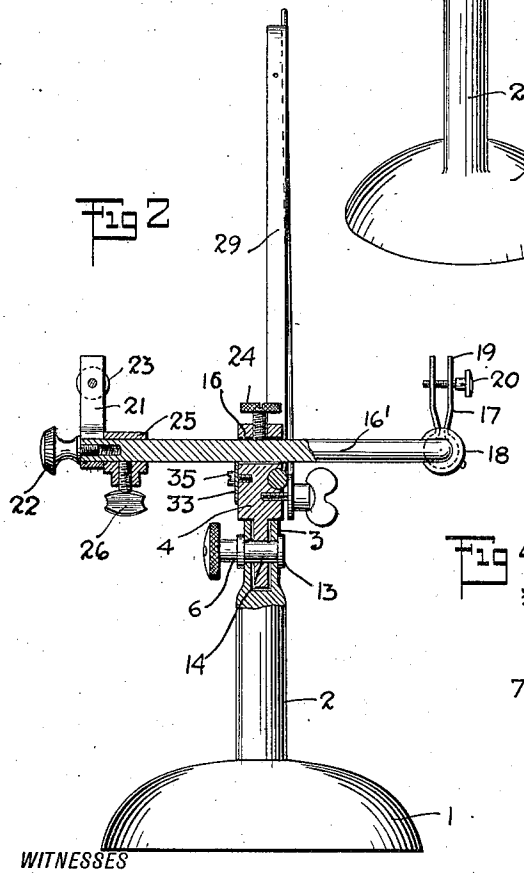


Fig 3

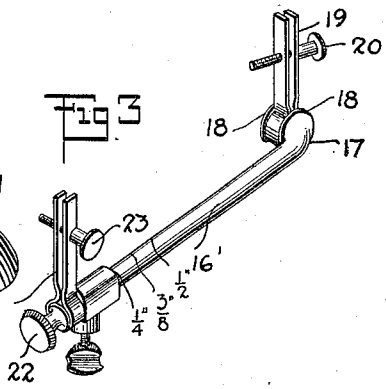
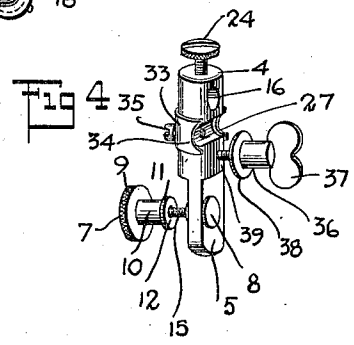


Fig 4



WITNESSES

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ADJUSTABLE CLAMPING-SUPPORT FOR SPECTACLES AND THE LIKE.

1,013,711. Specification of Letters Patent. Patented Jan. 2, 1912.

Application filed December 30, 1910. Serial No. 600,054.

To all whom it may concern:

Be it known that I, EDGAR S. WIGGINS, a citizen of the United States, and a resident of Paris, in the county of Henry and State of Tennessee, have invented a new and Improved Adjustable Clamping-Support for Spectacles and the Like, of which the following is a full, clear, and exact description.

The object of my invention is to provide a support for holding the frames of spectacles and other articles in position to be assembled, or repaired if broken, and it comprises certain details of construction by means of which the article to be repaired or otherwise worked upon can be held in position by movable parts so arranged as to afford every possible adjustment for the convenience of the workmen, for which there may be need, in practice.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of my adjustable holder, showing a spectacle frame held in place therein; Fig. 2 is a side elevation thereof partly in section; Fig. 3 is a perspective view of the longitudinally-adjustable clamping-rod forming a part of my invention; Fig. 4 is a perspective view of the adjustable support, by means of which the structure of my improved holder is adjustably mounted upon the base.

My improved holder comprises a base 1, from which rises a standard 2, the upper end of which is split, as shown at 3, so as to form a yoke in which the upper structure of my clamping holder is pivotally mounted. This yoke 3 is connected to a rotatable supporting member 4, which has a lower extension 5 forming a flat shank received by the yoke member 3 and pivotally mounted therein on a pivot 6, which passes through registering openings in the shank 5 and the sides of the yoke member 3. This pivot 6 is made in two separable parts 7 and 8, the former consisting of a milled head 9 and a stem 10 having on its opposite end a terminal flange 11. The stem 10 has a longitudinal perforation passing through the flange 11, which is screw-threaded. The other part consists of a head 13 and a stem 14 which terminates in a reduced screw-threaded extension 15 which fits into the threaded bore 11 of the shank 10. The stem 14 of the part 8 passes through the registering openings in the yoke 3 and shank 5, and the part 7 is then screwed on over the reduced shank 15 of the part 8 until the flange 11 engages the outside of one of the members of the yoke 3, thus locking the parts 7 and 8 of the pivot 6 together.

Near the top of the pivotally-mounted support 4 is a transverse aperture 16, which is designed to receive a clamp-carrying rod 16′. This rod has one of its ends bent at substantially right angles to the main portion of the rod, and the bent portion has formed thereon two collars 18 which receive between them a clamp 19 carrying a fastening or binding screw 20. The other end of the clamp-carrying rod 16′ has a similar clamp 21, held in place by means of a milled head screw 22, and carrying a similar binding screw 23. This rod 16′ can be adjusted lengthwise in the aperture 16, and it also can be adjusted around its longitudinal axis. It is held in its adjusted position by means of a screw 24 in the top of the support 4, which passes through the top into the bore 16, and binds against the outer surface of the rod 16′. The rod 16′ has marked on it a number of divisions representing fractions of an inch for purposes of measurement, and it carries also a sliding gage 25, which can be held in any position by means of a thumb-screw 26.

The indications may begin from the end of the rod bearing the clamp 21, and by placing the gage so that the end facing the support coincides with any one of these indications, the rod 16′ can be pushed lengthwise until the gage 25 strikes against the support, thus holding the rod 16′ in such a position that an indicated portion of its length measured from the straight end thereof will be on one side of the support 4, and the remainder of the length of the rod will be on the other side of the support. The support 4 has a notch 27, the longitudinal axis of which extends in a direction at right-angles to the direction of the aperture 16. This notch receives a transverse bar 28, on the ends of which are mounted two upright triangular frames 29, the said frames being secured to the said bar 28 by means of solder or by rivets, or in any other suitable manner. Two spring members 31 are also secured to the opposite ends of the bar 28, these spring members having their lower

ends laid along the bar and then being bent out and around the ends of the bar and the ends of the bases of the triangular frames 29, and then being bent upward and inward so as to be placed slightly under tension, causing the upper ends of the members 31 to press upon the apexes of the frames 29. 32 is a spectacle frame, which is held in place by the pressure of the members 31, as shown. The edges of the frames 29 engaging the frame 32 may be milled or roughened. The transverse bar 28 also engages the notched ends of a semi-circular band 33. The notched ends of this band 33 are indicated at 34, and they have the same curvature as the surface of the notch 27, so that these notches form braces for a purpose which will presently appear. This band is held in place on the adjustable support 4 by means of a screw 35. A binding screw is shown at 36, having a finger-hold 37 and a flange 38, and terminating in a screw-threaded end 39, which screws into a correspondingly-threaded aperture in the support 4, below the notch 27. The flange 38 of this binding screw engages the side of the transverse bar 28 and holds the same firmly in place, the notched ends 34 of the band 33 forming extensions of the notch 27 and bracing the bar 38 against the pressure of the screw 36 and holding it tightly in position.

It will be seen by examining Fig. 4, that the ends of the semi-circular band 33 project slightly past the end edges of the notch 27. When the bar 28 is laid in this notch and the screw 36 tightened, the band 33 will give to a slight extent as the side of the bar moves into contact with the bottom of the notch 27, and the ends of the band 33 will thus brace the bar against the force of the screw on either side of the latter.

It will be seen that the entire structure of my adjustable clamping holder can be held in any position desired, by rotating the same to a certain angle around the pivot 6, and by screwing the parts 7 and 8 of the pivot 6 tightly together, the frame will be held in adjusted position. At the same time the bar 28 carrying the spectacle frames can be adjusted lengthwise or can be adjusted around its longitudinal axis so as to raise or lower the frames 29. Likewise, the bar 16′ can be adjusted lengthwise or can be adjusted to different positions around its longitudinal axis, and each of the clamps it carries upon its ends can be given an independent adjustment, whatever be the position in which the several parts of the holder are held. By such a construction the spectacle or other article to be worked upon can be held in place by the frames 29 and spring members 31, and by either of the clamps 19 or 21, and the position in which it is to be held by any one of the above means can be regulated as conditions require; hence, my adjustable clamping holder provides a great variety of adjustments, at least one of which is sure to suit the convenience of the workmen by whom my invention is used. The clamp 19 or 21 will assist the frames 29, if the latter are turned down.

Obviously, I may make such changes in the shape and size of the parts as come within the scope and spirit of my invention.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A pivotal supporting member for a spectacle frame holder, comprising a body, a shank extending therefrom having a transverse bearing to receive a pivot, a transverse perforation through said body at one point of its length, a binding screw in operative relation to said perforation, a recess in the side of the body at another point along its length, the direction of said recess being transverse to the direction of said perforation, and a binding screw in operative relation to said recess.

2. A pivotal supporting member for a spectacle frame holder, comprising a body, a shank extending therefrom having a transverse bearing to receive a pivot, a transverse perforation through said body at one point of its length, a binding screw in operative relation to said perforation, a recess in the side of the body at another point along its length, the direction of said recess being transverse to the direction of said perforation, a semi-circular band partly inclosing the supporting member and having notched ends adjacent the ends of said recess, and a binding screw in operative relation to said recess.

3. In an adjustable clamping holder for spectacles and the like, the combination of a base, a support pivotally mounted on said base, a rod mounted in said support and carrying independently-adjustable clamps thereon, said rod being both longitudinally and rotatably adjustable, a second rod carried by said support, said second rod being also longitudinally and rotatably adjustable with respect to the support, spectacle-frame engaging members mounted on the ends of said second rod, including a spring, for engaging the frames of the spectacles or the like, and means for holding both of said rods in their respective adjusted positions, whereby said rods may be adjusted together around the pivot of said support and at the same time may be adjusted in a manner described, independently of each other.

4. In an adjustable clamping holder for spectacles and the like, the combination of a base, a standard rising therefrom, a support pivotally connected to said standard, a transverse rod mounted in said support,

said rod being both longitudinally and rotatably adjustable, independently-adjustable clamping members carried by said rod, said rod having indications thereon and a sliding gage on said rod coöperating with said indications, whereby the degree of longitudinal adjustment of said rod may be indicated, a second rod carried by said support transversely to the first-mentioned rod, said rod also being longitudinally and rotatably adjustable, and spectacle-engaging frames carried by said second rod.

5. A pivotal supporting member for spectacle frame holders, comprising a body having a transverse bearing therethrough to receive a pivot, a transverse perforation therethrough to receive a rod, means adjacent said perforation to clamp said rod in place, a recess in the side of the member, the direction of said recess being transverse to the direction of said perforation, and binding means adjacent said recess.

6. A pivotal supporting member for a spectacle frame holder, comprising a body, a transverse bearing therein to receive a pivot, a transverse perforation through said body, binding means adjacent said perforation, a recess in the side of said body, the direction of said recess being transverse to the direction of said perforation, a semi-circular band partly inclosing the supporting member and having notched ends adjacent the ends of said recess, and binding means carried by the body adjacent said recess.

7. In an adjustable clamping holder for spectacles and the like, the combination of supporting means, a transverse bar carried by said supporting means, a triangular spectacle frame supported on its base upon the end of said bar, and an upright spring member connected at its lower end to said bar and resting against the edge of said frame to clamp the article to be worked upon in place.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDGAR S. WIGGINS.

Witnesses:

SAMUEL E. RAGLAND,

S. N. PETTY.