

H. H. STYLL.
OPHTHALMIC MOUNTING.
APPLICATION FILED MAY 23, 1914.

1,146,111.

Patented July 13, 1915.

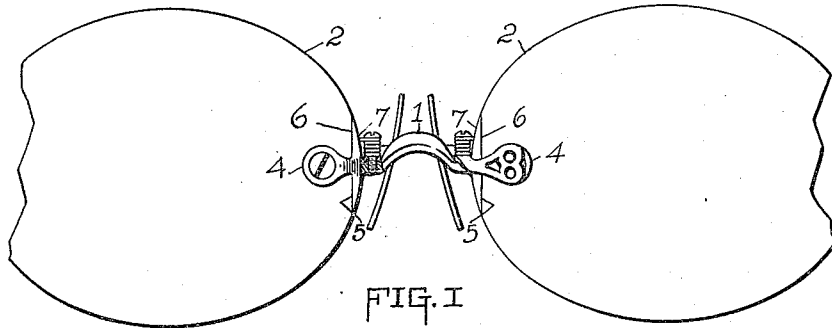


FIG. I

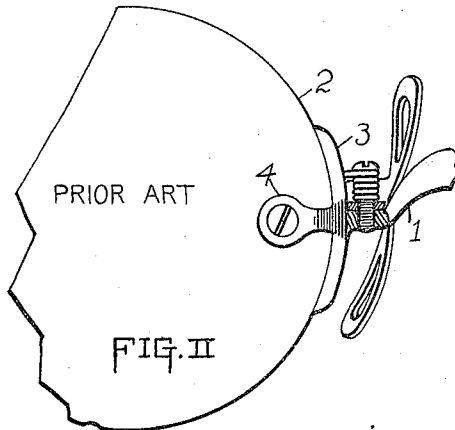


FIG. II

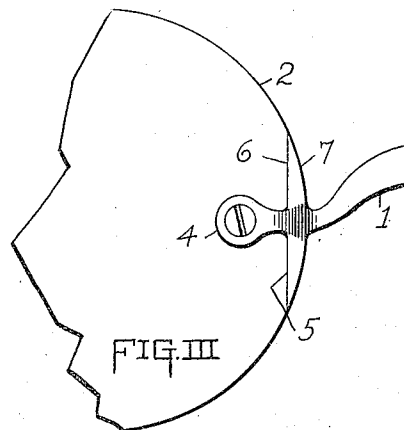


FIG. III

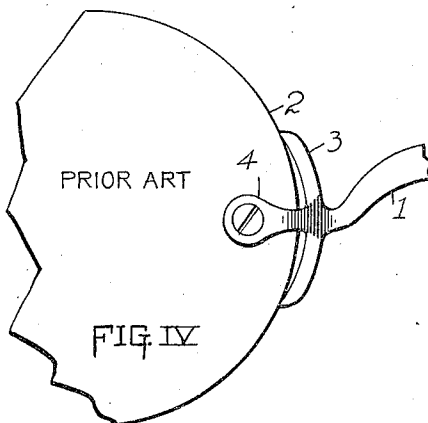


FIG. IV

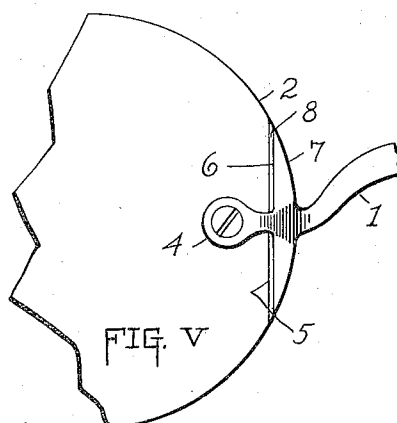


FIG. V

WITNESSES:

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OPHTHALMIC MOUNTING.

1,146,111.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRY H. STYLL, a citizen of the United States, residing at Southbridge, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Ophthalmic Mountings, of which the following is a specification.

My invention relates to improvements in ophthalmic mountings and has particular reference to an improved type of mounting for use in connection with rimless lenses.

The leading object of my invention is the provision of an improved method of readily securing lenses in rimless mountings in a neat and attractive manner, which will to the greatest possible degree eliminate liability of loosening of the same by rocking or swinging movement around the lens screw as a center.

A further object of my invention is the provision of a device of this character which will permit of the attainment of a very narrow P. D. without decentration of the lenses.

Other objects and advantages of my improvement should be readily apparent by reference to the following description taken in connection with the accompanying drawings, and it will be understood that I may make any modifications in the specific details of construction shown and described within the scope of the appended claims without departing from or exceeding the spirit of my invention.

Figure I represents a front view of a mounting constructed in accordance with and embodying my invention. Fig. II represents an enlarged view illustrating the prior art form of construction. Fig. III represents a view similar to Fig. II contrasting therewith my improvement. Fig. IV represents a view similar to Fig. II of the prior art improperly fitted, and Fig. V represents a similar view of my construction.

In the drawings, in which similar characters of reference are employed to denote corresponding parts throughout the several views, the numeral 1 designates a bridge having at each end a lens attachment for securing in position an ordinary lens 2. In the prior art, as shown in Fig. II, the said lens clip or attachment comprised a strap member 3 and clip ears 4 which embrace the lens therebetween. In the construction of this type of clip the same is first stamped from sheet material and the strap portion

3 is then curved to approximately the usual curvature of a lens so that the lens will fit within the curve of the strap when properly mounted. In actual practice, however, this fitting of the lens within the strap is found to be more theoretical than practical, inasmuch as there are about fifteen different standard sizes and shapes of lenses in addition to a large number of special shaped lenses which are made up by the trade and it is consequently impossible for one strap to fit all these lenses. They are therefore supplied with a certain curvature and the user of the mounting must either adjust and bend the strap to fit the particular lens or else as sometimes occurs the lens is mounted therein as illustrated in Fig. IV for example. That is to say, when mounted the lens will appear to be tight and correctly fitted although actually only being engaged at two points, as for example the termini of the strap, thus being weakly held and readily loosened in cleaning or otherwise working of the lenses. With my invention, however, I do away with all the objections present in structures of the prior art, as follows: Taking any standard size of lens I flatten the end of the same as illustrated at 5 and then use in conjunction therewith a strap having a straight inner face 6 which tightly fits the flattened portion 5 of the lens throughout its entire length, said strap portion having the outer curved face 7 which is preferably of sufficient size to at least compensate for the portion removed from the lens to preserve the symmetry of appearance thereof. This strap may be formed in any suitable manner but it is to be noted that by having the flat inner face there is no bending and consequent distortion or stretching of the metal thereof tending to destroy its initial stiffness as originally formed while the rounding portion 7 on the outer face thereof serves as a reinforcement to resist any outward bending of either end of the strap.

Attention is here called to the fact that any size or shape of lens may be made to correctly fit within my strap by simply flattening the same and if desired to be quite particular with the job one can measure or try the lens each time after a little is taken off until the exact fit is attained, an impossibility with the structures of the prior art. If, however, as is always liable to occur, through oversight or carelessness, the lens is

ground down too much so that a loose fit occurs, as illustrated in Fig. V for example, this may be readily remedied, as by placing a slight filler strip 8 between the lens and strap, this strip being of any desired material and being cut to the proper thickness. On account of the two straight edges a strip of this sort may be readily employed where it would be practically an impossibility to make use of the same and secure contact throughout between the edge of the lens and the strip and the edge of the strap and the strip in the prior art construction.

From the foregoing description taken in connection with the accompanying drawings, the construction and use of my improved device should be readily apparent and it will be seen that I have provided an improved strap which may be readily fitted upon any size or shape of lens and will securely hold the same and prevent any loosening by movement of the same around the pivot screw as occurs at the present time, and which not only may be perfectly fitted but which will to a maximum resist any loosening movement on account of the fact that the metal of the strap is in its original position and has not been weakened by bending or distortion and furthermore on account of the fact that it has on the outer face the reinforcing, or stiffening portion 7 to resist any outward bending of the terminal portions thereof. Attention is further called to the fact that this loosening action on an ordinary strap, even when properly fitted, is that of a roller cam, exerting a very powerful leverage to bend back the strap ears into their normal position and loosen their engagement with the lens. On the other hand, my device is not that of a roller cam but a straight leverage, the lens

moving on the screw as a fulcrum and this movement being desisted by a lever arm consisting of the distance from the screw to the point of my strap. Consequently I have much more resistance to any loosening tendency than is present in the ordinary or prior art construction.

I claim:

1. The combination with a lens having a flat portion at one side thereof, of an attachment therefor comprising a strap having its inner face formed to fit the side of the lens and having a reinforced curved outer face shaped to form a substantial continuation of the curvature of the lens and preserve the symmetrical appearance thereof, and clip ears carried by the strap portion and engaging the lens therebetween, and a fastener passing transversely through the clip ears and the lens for securing the parts together.

2. The combination with a lens having a portion removed at one side thereof to provide a flat face, of a strap member comprising a portion resting against the side of the lens and secured thereto and a second portion engaging the flat edge of the lens and extending above and below the member engaging the side thereof, said second portion occupying the space formed by removal of a portion of the lens and making tight engagement with the edge of the lens, whereby the symmetrical appearance of the lens is preserved and the same is held against loosening movement.

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

HARRY H. STYLL.

Witnesses:

JOSEPH J. DEMERS,
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