

Nov. 22, 1927.

1,650,236

J. L. ROLLINS

DIMMER GLASSES

Filed June 9, 1924

2 Sheets-Sheet 1

Fig. 1.

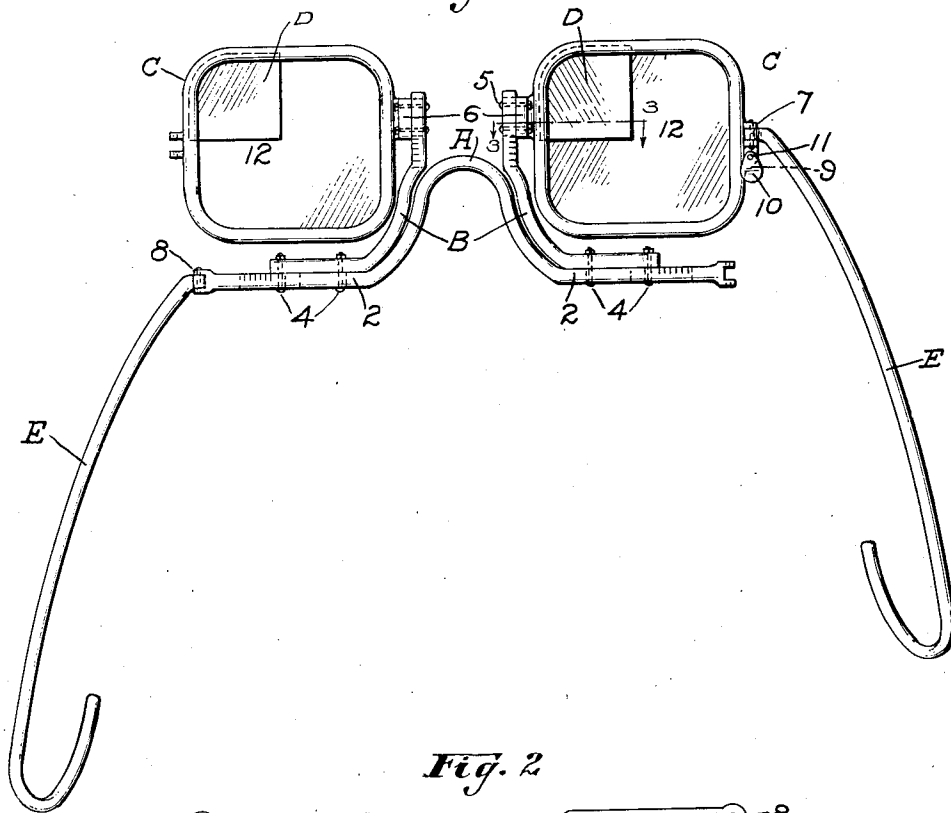
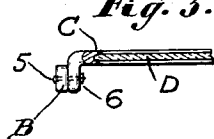


Fig. 2.



Fig. 3.



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2 Sheets-Sheet 2

Fig. 4.

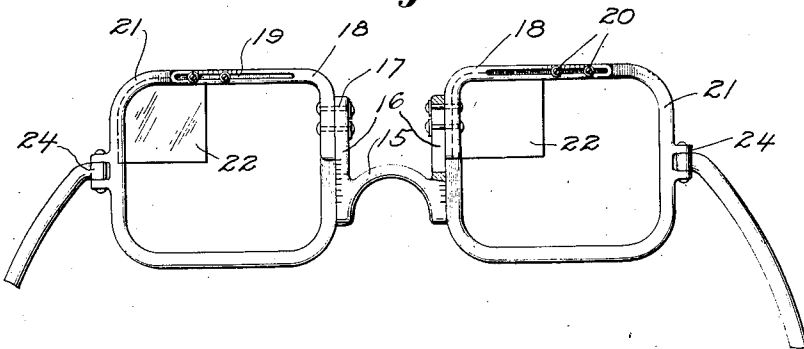


Fig. 5.

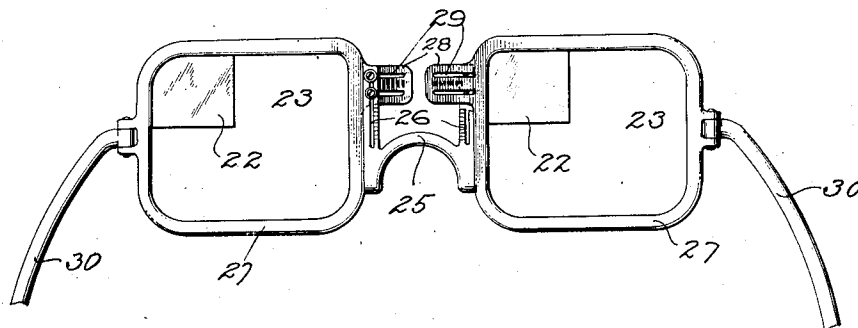
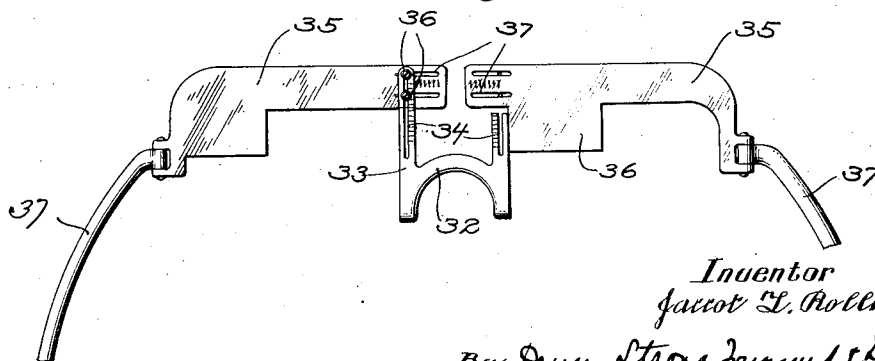


Fig. 6.



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DIMMER GLASSES.

Application filed June 9, 1924. Serial No. 718,851.

This invention relates to dimmer glasses, and especially to improvements on the structure shown in my co-pending application entitled "Dimmer glasses", filed October 31, 1923, Serial No. 671,928.

The object of the present invention is to generally improve and simplify the construction and operation of glasses of the character described, and particularly to provide means whereby the rims or supporting members of the dimming substance are mechanically attached to the nose-piece, directly or through an intermediary part, wherein adequate range of lateral and vertical adjustment of the dimming medium may be obtained.

Evidently, a number of mechanical structural variations may be used to obtain the object and purpose of this invention.

To further elucidate and amplify the several structures or modifications, reference will be made to the accompanying specification and drawings, in which—

Fig. 1 is a rear view of the glasses.

Fig. 2 is a plan view of the nose-piece on which the lateral extensions are formed.

Fig. 3 is an enlarged detail section taken on line 3—3 of Fig. 1.

Figs. 4, 5 and 6 show modified forms of the structure.

Referring to the drawings in detail, and particularly to Fig. 1, A indicates a nose piece and 2 a pair of lateral extensions formed thereon. Supported by the lateral extensions is a pair of angle brackets generally indicated at C, which serve as a support for the dimming medium hereinafter to be described.

The angle brackets B are laterally adjustable on the extensions 2 and the spectacle frames C are vertically adjustable with relation to the angle brackets; the vertical and lateral adjustment obtained being of considerable importance as it permits adjustment of the dimming medium generally indicated at D with relation to the eyes of the wearer and a distant source of light which it is desired to dim.

Lateral adjustment is obtained by slotting the lateral extensions, as indicated at 3, and by passing screws 4 through the angle brackets and the slotted portions of the lateral extensions 2. That is, the slots are sufficiently long to permit the angle brackets to

be moved laterally and then to be secured by the clamping screws when adjusted.

Vertical adjustment is obtained by slotting the upright sections of the angle brackets and by securing the spectacle frames C thereto by means of clamping screws 5, the clamping screws passing through extensions 6 formed on the inner sides of the spectacle frames and disposed at right angles thereto, this particular construction being preferred as it permits of free access to the screws when making the adjustment.

The spectacle frames proper may be rectangular in shape as shown, or they may be rounded or otherwise shaped as desired. The bows indicated at E, whereby the glasses as a whole are secured, may be pivotally attached to the spectacle frames as indicated at 7, or they may be pivotally attached to the lateral extensions 2 as indicated at 8.

The dimming medium D may be constructed of any suitable semi-transparent material, such as glass, celluloid or the like, and it may be colored yellow, green, blue, or otherwise as desired. The dimming medium is secured in the spectacle frames in any suitable manner and the remaining space may remain open or it may be filled in with lenses particularly suited to the wearer, this feature being of no particular importance as it is already fully described and completely disclosed in my copending application referred to.

Where the dimming medium alone is employed and supported in the upper left hand corners, a slightly out-of-balance condition may exist, and to obviate this unbalanced condition a lateral extension is formed on the spectacle frames as indicated at 9. This extension forms a support for a pear-shaped weight 10, which is pivotally attached thereto and secured by means of a screw 11. By swinging the weight about its pivotal support, adjustment as far as balance is concerned may be readily obtained.

In actual use it will be noted that the space indicated at 12, whether open or covered by a lens, may be fully transparent so that the normal vision of the wearer will not be interfered with.

The dimmer glasses are particularly intended for automobile driving and the like

and they are not actually required except when blinding headlights are encountered, and they are then interposed between the blinding headlights and the eyes of the wearer by slightly turning and tilting the head in a forward direction. In other words it might be stated that the wearer only views the glaring headlights through the corners of the eyes and as such is the case the dimming medium will consequently be interposed and all blinding effects are obviated. The side of the road between the machine and the approaching machine still remains clear to the vision of the driver as this portion of the road is viewed through the unobstructed or clear portion 12 of the glasses.

The frame, comprising the nose-piece, the lateral extension, the angle brackets, the spectacle frames, etc., may be constructed of celluloid, metal or any suitable material.

The lateral extensions 2 are preferably graduated, as shown, to facilitate lateral adjustment, and the vertical extensions of the angle brackets may similarly be graduated to facilitate vertical adjustment.

In Fig. 4, which is a modified form of the structure, 15 indicates the nose-piece, and formed thereon are two vertical arms 16. These arms are longitudinally slotted as shown for the reception of screws 17. 18 indicates a pair of angle-shaped brackets attached to the vertical extensions 16 by means of the screws 17. 19 indicates a slot provided for the reception of screws 20, by means of which the spectacle frames or rims 21 are attached anteriorly to the members 18, the rims 21 being laterally adjustable with relation to the nose-piece and the members 18 by securing them in the manner here described. The slotted members 16 permit vertical adjustment and the slots 19 permit lateral adjustment.

The dimming medium is secured in any suitable manner, as indicated at 22, and the space shown at 23 may be occupied by a lens or clear glass, or it may be left entirely open. The bows are pivotally attached to the rims, as indicated at 24, and as the bows are attached behind the ears of the wearer, the device as a whole is amply secured when in position.

Fig. 5 shows another modification, in which 25 indicates the nose-piece. This nose-piece is provided with two vertical arms or members 26 and these are vertically slotted as indicated. 27 indicates the spectacle rims and these are each provided with extensions 28 in which are formed horizontal slots 29. Screws F extend through the slots 26 and 29 and as such permit both vertical and lateral adjustment of the rims 27 in which the dimming medium 22 is supported. The dimming medium may in this instance be secured in any suitable manner and the open spaces 23 may remain open or may

have lenses or clear glass fitted therein as desired. The glasses are otherwise secured by means of bows 30.

In some instances it is desirable to do away with the lower part of the vertical rims entirely and with this object in view the modification shown in Fig. 6 is presented. In this instance 32 indicates the nose-piece, and this is provided with two vertical arms as indicated at 33, the arms being vertically slotted as at 34.

Two members such as indicated at 35, and in reality representing the upper portion of a pair of spectacle rims, are secured to the extensions 34 by means of screws 36, the inner ends of the members 34 being longitudinally slotted as at 37 to permit lateral adjustment, and the slots 34 permitting vertical adjustment.

The members 35 may be constructed of celluloid or a similar semi-transparent material, and the dimming medium indicated at 36 may therefore be formed as a part thereof.

The bows 37 are attached to the outer ends of the members 35 and the device is therefore supported on the nose of the wearer in the usual manner. If desired, it is possible to insert the dimming medium, or to make it as a separate part, and in that instance it could be secured to the arms 35 in any suitable manner.

I also wish it understood that other features of the present invention may be changed within the scope of the appended claims, and that the finish of the several parts employed may be such as the experience and judgment of the manufacturer may dictate or various uses may demand.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. Eye glasses of the character described, comprising a nose piece, a pair of lateral extensions thereon, a pair of angle brackets supported by the lateral extensions, a pair of spectacle frames supported by the angle brackets, and a dimming medium carried by each spectacle frame.

2. Eye glasses of the character described, comprising a nose piece, a pair of lateral extensions thereon, a pair of angle brackets supported by the lateral extensions, means permitting lateral adjustment of the angle brackets with relation to the lateral extensions, a pair of spectacle frames supported by the angle brackets, and a dimming medium in each spectacle frame.

3. Eye glasses of the character described, comprising a nose piece, a pair of lateral extensions thereon, a pair of angle brackets supported by the lateral extensions, means permitting lateral adjustment of the angle brackets with relation to the lateral extensions, a pair of spectacle frames sup-

ported by the angle brackets, means permitting vertical adjustment of the spectacle frames with relation to the angle brackets, and a dimming medium supported by each
5 spectacle frame.

4. Eye glasses of the character described, comprising a nose piece, a pair of spectacle frames supported thereby, a dimming medium secured in the upper corner of each
10 frame and in one side thereof, a counterbalancing member disposed on one side of the spectacle frame and a pivotal support for the counterbalance to permit adjustment thereof with relation to the spectacle frame.

15 5. Eye glasses of the character described, comprising a nose piece, a pair of spectacle frames supported thereby, a dimming medium secured in the upper corner of each frame and in one side thereof, a counterbalancing member disposed on one side of
20 the spectacle frame, said counterbalancing member comprising an extension on one side of the frame, and a weight pivotally secured to the extension and adjustable with relation thereto.
25

6. Eye glasses of the character described, comprising a nose piece, a pair of lateral

extensions thereon, a pair of angle brackets supported by the lateral extensions, means permitting lateral adjustment of the angle
30 brackets with relation to the lateral extensions, a pair of spectacle frames supported by the angle brackets, means permitting vertical adjustment of the spectacle frames with relation to the angle brackets, a dimming
35 medium supported by each spectacle frame, a counterbalancing weight secured on one side of the spectacle frame, and means permitting adjustment of the weight.

7. An eye glass of the character described, 40 comprising a nose piece, a pair of extensions on the nose piece, one on each side thereof, said extensions being slotted, a dimming medium support disposed on each side of the
45 nose piece, said dimming medium member supports being slotted and adapted to register with the slotted extensions on the nose piece, and clamping means insertible through the slotted rotating members and permitting vertical and lateral adjustment
50 of the dimming member supports with relation to the nose piece.

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