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PATENT



SPECIFICATION

Application Date, Jan. 20, 1916. No. 953/16.

Complete Left, Feb. 17, 1916.

Complete Accepted, June 1, 1916.

PROVISIONAL SPECIFICATION.

Improvements in Means for Attaching the Side Arms to Spectacle Frames.

I, HARRY HARRIS COLLINGS, of West End, Cowbridge, Glamorganshire, Watch and Clock Maker, do hereby declare the nature of this invention to be as follows:—

5 My invention relates to a simple means for attaching the side arms to spectacle frames which will enable the wearer or any person to readily substitute a new side for a damaged or broken one without the necessity for using any tools. My device has the advantage over existing methods, that it is unnecessary to interfere with any other part of the spectacles as is the case with the existing method of attachment and avoid removal of the small
10 screw which secures the rim of the frame around the lens thus preventing derangement of the lens. My device has the further advantage that a single pattern of one side is suitable for use on either left or right of the spectacle frame.

15 According to my invention the end of the side arm is provided with a hook form of catch such as a swivel, bolt-ring or like catch, in which a portion of the catch engages in the eye on the side of the spectacle frame whilst a movable portion closes the gap and secures it in position. This catch may comprise a hook catch with spring operated movable piece for closing the gap similar to the well known watch-swivel type of catch. A suitable method
20 of constructing such a catch consists in bending the end of the side arm to the desired hook shape and securing a small spring blade in position to normally close the gap but capable of being pressed back to allow the catch to be engaged in the eye on the spectacle frame. A ring bolt type of catch comprises a tubular ring having a gap to engage over the eye on the spectacle
25 frame, and a slidable bolt or pin in the tubular ring adapted to be engaged through the hole in the said eye. This bolt is operated by the finger and may be normally held in the closed position by means of a spring.

Owing to the absence of any rivet, rusting in of the rivet and consequent breakage of the eye on the side of frames are prevented.

30 Dated this 20th day of January, 1916..

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5, Chancery Lane, London,
Agents for the Applicant.

COMPLETE SPECIFICATION.

Improvements in Means for Attaching the Side Arms to Spectacle Frames.

I, HARRY HARRIS COLLINGS, of West End, Cowbridge, Glamorganshire, Watch and Clock Maker, do hereby declare the nature of my invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

My invention relates to a simple means for attaching the side arms to 5
spectacle frames which will enable the wearer or any person to readily substitute a new side for a damaged or broken one without the necessity for using any tools. My device has the advantage over existing methods, that it is unnecessary to interfere with any other part of the spectacles as is the case with the existing method of attachment and avoid removal of the small 10
screw which secures the rim of the frame around the lens, thus preventing derangement of the lens. My device has the further advantage that a single pattern of side is suitable for use on either left or right of the spectacle frame.

I am aware that it has previously been proposed to combine detachable side arms with pince-nez or double eye-glasses with the object of keeping them in 15
position during certain occupations such as hunting or riding, but my invention relates to certain improved methods of attaching such side arms to the frames of spectacles and especially those of the type upon which side arms are normally employed.

According to my invention the end of the side arm is provided with a hook 20
form of spring catch such as a swivel, bolt-ring or like spring catch, in which a portion of the catch engages in the eye on the side of the spectacle frame whilst a spring or spring pressed portion closes the gap and secures it in position. This catch may comprise a hook catch with a spring operated 25
movable piece for closing the gap similar to the well known watch-swivel type of catch. A suitable method of constructing such a catch consists in bending the end of the side arm to the desired hook shape and securing a small spring blade in position to normally close the gap but capable of being pressed back to allow the catch to be engaged in the eye on the spectacle frame. A 30
ring bolt type of catch comprises a tubular ring having a gap to engage over the eye on the spectacle frame, and a slidable bolt or pin in the tubular ring adapted to be engaged through the hole in the said eye. This bolt is operated by the finger and may be normally held in the closed position by means of a spring.

Owing to the absence of any rivet, rusting in of the rivet and consequent 35
breakage of the eye on the side of frames are prevented.

In order that my invention may be more readily understood, reference is had to the accompanying drawings in which:—

Fig. 1 shows a curl-side spectacle frame having the side arms attached 40
according to my invention.

Fig. 2 is a detail view to an enlarged scale of the form of fastening employed in the frame shown in Fig. 1.

Fig. 3 is a detail view to an enlarged scale of a modified construction of swivel type fastening device and

Fig. 4 is a similar view showing a bolt-ring type of fastening. 45

Referring to Figs. 1 and 2. The spectacle frame 1 which is of ordinary construction is provided with eyes 2 at the outer end of each of the lens holders. The curl-sides 3 are provided at their ends with a bent round end 4

forming a hook, the extreme end 5 of which is brought close to the junction between the end of the curl-side 3 and the hook 4, but leaving a sufficient gap to allow the hook 4 to be threaded through the eye 2. This gap is normally closed by means of the spring blade 6 which will be pressed back to allow the hook 4 to be threaded through the eye 2, afterwards springing back and closing the gap as shown in Figs. 1 and 2. In Fig. 1 it will be seen that both the curl-sides 3 are identical and are interchangeable, it being unnecessary to have a right and left hand side as at present.

In Fig. 3, a watch swivel type of fastening is provided on the end of the side 3. This fastening comprises a hook 6 secured in the body 7 and a movable portion 8 hinged to the body and normally held in a position to close the gap between the end of the hook and the body by means of a spring within the body.

Referring now to Fig. 4, a hollow annular ring 9 is mounted on the end of the side 3 and has a cut away portion or gap 10 provided opposite the point at which it joins the side 3. This gap 10 is engaged over the eye 2 of the spectacle frame as shown in the drawing, and a sliding bolt 11 is pressed forward by means of a spring within the hollow annular ring 9, so as to pass through the hole in the eye 2 and secure the side 3 in position. A pin or knob 12 is provided on the bolt 11 by means of which the latter may be drawn back against the action of the spring in order to allow the side 3 to be attached or detached at will.

In a modification an ordinary eye or ring may be provided upon the end of each side arm and the spring clip fastening device as previously described may be mounted upon the rims of the spectacle frame.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

(1) Means for attaching the side arms to spectacle frames comprising a hook or ring fastening upon the end of the side arm and a portion adapted to engage in the hole in the eye on the spectacle frame and a spring actuated portion adapted to normally close the gap in the hook or ring so as to secure the side in position but capable of being displaced to enable it to be released.

(2) The improved means for attaching the side arms to spectacle frames substantially as described in the specification with reference to Figs. 1 and 2 of the accompanying sheet of illustrative drawings.

(3) The improved means for attaching the side arms to spectacle frames substantially as described in the specification with reference to Fig. 3 of the accompanying sheet of illustrative drawings.

(4) The improved means for attaching the side arms to spectacle frames, substantially as described in the specification with reference to Fig. 4 of the accompanying sheet of illustrative drawings.

Dated this 17th day of February, 1916.

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Fig. 1.



Fig. 2.

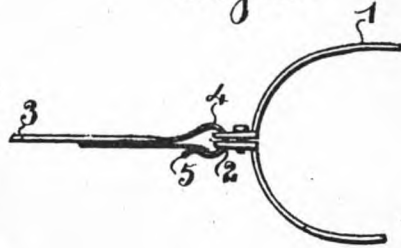


Fig. 3.

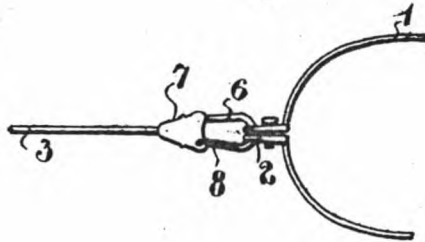
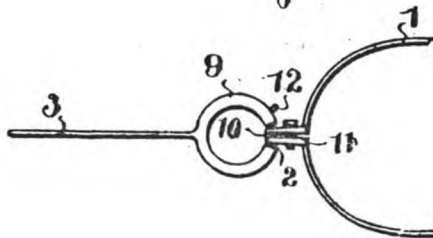


Fig. 4.



[This Drawing is a reproduction of the Original on a reduced scale.]