Eyeglasses frame temple insert coupling

Description

This invention relates to a temple insert coupling where a high friction material is used to cover the frame temple for the purpose of securing a component with at least one rubberized part that comes into contact with the temple. This insert coupling is not visible to the user as it sits between the high friction elastomer parts and the temple. The insert coupling may be precoated on the temple during manufacturing of the frame or it may come in the form of a heat shrinkable tube such that it can be easily insert over the temple and heat shrunk such that the insert coupling grip tightly on the temple tip. This insert coupling shall have a substantially high friction coefficient such that the high friction elastomer part can be secured to it using friction.

The optical industry does uses heat shrinkable film, it is typically used on metal temples to prevent corrosion through contact with the user's skin. Further, the main requirement of the heat shrinkable film is that it is transparent such that it does not affect the aesthetics of the glasses. In our invention, the main function of the heat shrink sleeve or tube is to provide frictional coupling between the high friction elastomer part and the frame temple. An example of substantially high friction shrink tube is made out of polyolefin and its variants. Heat shrink tube may be made of other thermoplastic materials such as polyvinyl chloride (PVC), polyethylene terephthalate (PET) and polytetrafluoroethylene (PTFE). However, these thermoplastic materials may not have the necessary substantially high friction required for this application.

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Figure 1 shows an embodiment of the insert coupling on the temple tip.

Figure 2 shows an embodiment of an elastomeric temple tip secured by the insert coupling.

Claims

1. A temple tip insert coupling that is made out of substantially high friction material for the purpose of securing a component with at least one rubberized part that comes into contact with the temple insert coupling.

2. Said component in claim 1 is the eyeglasses temple tip.

3. Said temple insert coupling in claim 1 is heat shrinkable and have substantially high friction.

4. Said temple tip insert coupling in claim 3 is in the form of a tube.

5. Said temple tip insert coupling in claim 3 is made out of polyolefin or its variants.

6. Said temple tip insert coupling in claim 1 is meant for inserting into a substantially elastic part with substantially high friction in its insert channel.

7. Said temple tip in claim 2 is made of silicone or its derivative.