Claims

1. A Multi-Piece Insert device for an Ophthalmic Lens comprising:

a first insert Back Curve Piece;

a first insert Front Curve Piece;

a conductive material placed upon one or both of the first insert Front Curve Piece and first insert Back Curve Piece;

an electronic Component attached at least in part to the conductive material; and

a sealing material preformed into a shape to form a seal disposed between the first insert Front Curve Piece and the first insert Back Curve Piece to create a sealed cavity interior to the combination of the first insert Back Curve Piece and the first insert Front Curve Piece.

2. The Multi-Piece Insert device of claim 1 additionally comprising:

a second insert Back Curve Piece; and

a second sealing material to form a second seal disposed between the first insert Front Curve Piece and the second insert Back Curve Piece to create a second cavity interior to the combination of the first insert Front Curve Piece and the second insert Back Curve Piece.

3. The Multi-Piece Insert device of claim 1 wherein:

the sealed cavity contains the electronic Component.

4. The Multi-Piece Insert device of claim 1 wherein:

the electronic Component is exterior to the sealed cavity.

5. The Multi-Piece Insert device of claim 1 wherein:

the sealing material forms the seal by maintaining physical contact between at least a portion of either or both of the first insert Back Curve Piece and the first insert Front Curve Piece to the sealing material.

6. The Multi-Piece Insert device of claim 5 additionally comprising:

a second sealing material forming a second material adhesive seal between at least a portion of both the first insert Front Curve Piece and the first insert Back Curve Piece, wherein the second material adhesive seal maintains the physical contact between at least a portion of either or both the first insert Back Curve Piece and the first insert Front Curve Piece and the first sealing material.

7. The Multi-Piece Insert device of claim 1 additionally comprising:

a sealing agent applied to at least a portion of the electronic Component.

8. The Multi-Piece Insert device of claim 1 additionally comprising:

a sealing agent applied to at least a portion of the conductive material.

9. The Multi-Piece Insert device of claim 2 additionally comprising:

a sealing agent applied to at least a portion of the conductive material.

10. An Ophthalmic Lens device comprising the Multi-Piece Insert device of claim 1 additionally comprising:

an insert encapsulating layer formed from a polymerized Reactive Mixture.

11. An Ophthalmic Lens device comprising the Multi-Piece Insert device of claim 2 additionally comprising:

an insert encapsulating layer formed from a polymerized Reactive Mixture.

12. The Ophthalmic Lens device of claim 11 wherein:

the polymerized Reactive Mixture is a hydrogel.

13. The Ophthalmic Lens device of claim 12 additionally comprising:

an energization Component.

14. The Ophthalmic Lens device of claim 13 additionally comprising:

a liquid meniscus Ophthalmic Lens element.

15. The Multi-Piece Insert device of claim 1 additionally comprising:

at least a liquid within the sealed cavity.

16. The Multi-Piece Insert device of claim 1 wherein:

the sealing material is an epoxy adhesive.

17. The Multi-Piece Insert device of claim 11 additionally comprising:

a liquid meniscus Ophthalmic Lens element.

Claims

1. A Multi-Piece Insert device for an Ophthalmic Lens comprising:

a first insert Back Curve Piece;

a first insert Front Curve Piece, wherein an outer peripheral edge of the first insert Front Curve Piece extends beyond an outer peripheral edge of the insert Back Curve Piece;

a conductive material placed upon at least a portion of the first insert Front Curve Piece extending beyond the outer peripheral edge of the first insert Back Curve Piece;

an electronic Component attached at least in part to the conductive material such that it is located between the outer peripheral edge of the insert front curve piece and the outer peripheral edge of the insert back curve piece; and

a sealing material preformed into a shape to form a seal disposed between the first insert Front Curve Piece and the first insert Back Curve Piece to create a sealed cavity between the first insert Back Curve Piece and the first insert Front Curve Piece.

2. The Multi-Piece Insert device of claim 1 additionally comprising:

a second insert Back Curve Piece; and

a second sealing material to form a second seal disposed between the first insert Front Curve Piece and the second insert Back Curve Piece to create a second cavity interior to the combination of the first insert Front Curve Piece and the second insert Back Curve Piece.

3. The Multi-Piece Insert device of claim 1 wherein:

the sealed cavity contains the electronic Component.

4. The Multi-Piece Insert device of claim 1 wherein:

the electronic Component is exterior to the sealed cavity.

5. The Multi-Piece Insert device of claim 1 wherein:

the sealing material forms the seal by maintaining physical contact between at least a portion of either or both of the first insert Back Curve Piece and the first insert Front Curve Piece.

6. The Multi-Piece Insert device of claim 5 additionally comprising:

a second sealing material forming a second material adhesive seal between at least a portion of both the first insert Front Curve Piece and the first insert Back Curve Piece, wherein the second material adhesive seal maintains the physical contact between at least a portion of either or both the first insert Back Curve Piece and the first insert Front Curve Piece and the first sealing material.

7. The Multi-Piece Insert device of claim 1 additionally comprising:

a sealing agent applied to at least a portion of the electronic Component.

8. The Multi-Piece Insert device of claim 1 additionally comprising:

a sealing agent applied to at least a portion of the conductive material.

9. The Multi-Piece Insert device of claim 2 additionally comprising:

a sealing agent applied to at least a portion of the conductive material.

10. An Ophthalmic Lens device comprising the Multi-Piece Insert device of claim 1 additionally comprising:

an insert encapsulating layer formed from a polymerized Reactive Mixture.

11. An Ophthalmic Lens device comprising the Multi-Piece Insert device of claim 2 additionally comprising:

an insert encapsulating layer formed from a polymerized Reactive Mixture.

12. The Ophthalmic Lens device of claim 11 wherein:

the polymerized Reactive Mixture is a hydrogel.

13. The Ophthalmic Lens device of claim 12 additionally comprising:

an energization Component.

14. The Ophthalmic Lens device of claim 13 additionally comprising:

a liquid meniscus Ophthalmic Lens element.

15. The Multi-Piece Insert device of claim 1 additionally comprising:

at least a liquid within the sealed cavity.

16. The Multi-Piece Insert device of claim 1 wherein:

the sealing material is an epoxy adhesive.

17. The Multi-Piece Insert device of claim 11 additionally comprising:

a liquid meniscus Ophthalmic Lens element.