Claims

1. A Free-form contact lens comprising: a posterior optical quality surface having a concave shape; an opposing anterior surface having a convex shape, said anterior and posterior surface joining at a lens edge that defines an outer periphery of said Free-form contact lens; and at least a first lens feature having a predetermined shape and comprised of a first Reactive Mixture selectively polymerized on a voxel by voxel basis through a male mold, wherein the remainder of said contact lens is comprised of a second Reactive Mixture selectively polymerized on a voxel by voxel basis through said male mold, wherein the second Reactive Mixture is different than the first polymerized Reactive Mixture, and is covalently bonded with the first polymerized Reactive Mixture, wherein the at least first lens feature extends to a predetermined depth within the Free-form contact lens from either the anterior or posterior surface, and wherein said predetermined depth is less than a thickness of said Free-form contact lens at that location, and wherein the first lens feature is entirely surrounded by said second polymerized Reactive Mixture on all sides other than along said anterior or posterior surface.

2. The contact lens according to claim 1, wherein the first or second Reactive Mixture includes a fluorescing material.

3. The contact lens according to claim 2, wherein the fluorescing material contains a fluorescein component.

4. The contact lens according to claim 1, wherein the first or second Reactive Mixture includes an organic dye.

5. The contact lens according to claim 1, wherein the first or second Reactive Mixture is Etafilcon.

6. The contact lens according to claim 1, wherein the first or second Reactive Mixture is silicone based.

7. The contact lens according to claim 1, wherein the at least first lens feature is a fiducial marker.

8. The contact lens according to claim 1, wherein the at least first lens feature is a geometric pattern.

9. The contact lens according to claim 8, wherein the geometric pattern is a picture.

10. The contact lens according to claim 8, wherein the geometric pattern is a logo.

11. The contact lens according to claim 8, wherein the geometric pattern is a numerical marking.

12. The contact lens according to claim 8, wherein the geometric pattern is a bar code.

13. The contact lens according to claim 8, wherein the geometric pattern is an alpha-numeric pattern.

14. The contact lens according to claim 1, wherein the at least one lens feature is positioned outside of an optic zone of said lens.

15. A Free-form contact lens comprising: a posterior optical quality surface having a concave shape; an opposing anterior surface having a convex shape, said anterior and posterior surface joining at a lens edge that defines an outer periphery of said Free-form contact lens; and at least a first lens feature having a predetermined shape and comprised of a first Reactive Mixture polymerized on a voxel by voxel basis through a male mold, wherein the remainder of said Free-form contact lens is comprised of a second Reactive Mixture polymerized on a voxel by voxel basis through said male mold, wherein the second Reactive Mixture is different than the first polymerized Reactive Mixture, and is covalently bonded to the first polymerized Reactive Mixture, and wherein the at least first lens feature does not touch the anterior or posterior surface of the Free-form contact lens and is entirely surrounded on all sides by said second polymerized Reactive Mixture.

16. The contact lens according to claim 15, wherein the first or second Reactive Mixture includes a fluorescing material.

17. The contact lens according to claim 15, wherein the first or second Reactive Mixture includes an organic dye.

18. The contact lens according to claim 15, wherein the first or second Reactive Mixture is Etafilcon.

19. The contact lens according to claim 15, wherein the first or second Reactive Mixture is silicone based.

20. The contact lens according to claim 15, wherein the at least first lens feature is a fiducial marker.

21. The contact lens according to claim 15, wherein the at least first lens feature is a geometric pattern including a letter or numerical marker.

22. The contact lens according to claim 15, wherein the at least first lens feature is a bar code.

23. The contact lens according to claim 15, wherein the at least one lens feature is positioned outside of an optic zone of said lens.