

WHAT IS CLAIMED IS:

1. A reversible eye enhancement contact lens, the reversible eye enhancement lens comprising:
 - a. a main body, comprising a first surface and a second surface opposite the first surface, the main body having a diameter, a base curve, a peripheral thickness, and a center thickness;
 - b. wherein, one or more of the diameter, the base curve, the peripheral thickness, or the center thickness are configured such that a dSag is less than 1.3% when comparing a first orientation of the main body with at least a portion of the first surface abutting an eye of a wearer and a second orientation of the main body with at least a portion of the second surface abutting the eye of the wearer;
 - c. the main body also comprising a first region corresponding to the scleral region of an eye; a second region corresponding to the limbal region of an eye; a third region corresponding to an iris region of an eye;
 - d. wherein colorants are incorporated into the first region, the second region, the third region, or combinations thereof in the form of at least partially overlapping printed layers with a first design observable in the first orientation that is different than a second design observable in the second orientation.
2. The reversible eye enhancement contact lens according to either claim 1, wherein the printed layers comprise designs that highlight the iris, using inner and outer effect design graphics, on top of one another, wherein at least the first design or second design is opaque.
3. The reversible eye enhancement contact lens according to either claim 1, wherein the printed layers comprise at least two designs as first design and a second design that highlight the iris, using inner and outer effect design graphics,

on top of one another with some level of overlap and with a barrier layer in-between.

4. The reversible eye enhancement contact lens according to claim 1 or 3 wherein at least the first or second designs are translucent.
5. The reversible eye enhancement contact lens according to one of claims 1 or 3 wherein the barrier layer is at least partially opaque.
6. The reversible eye enhancement contact lens according to claim 5 wherein the barrier layer forms a common limbal design graphic with at least the first design or second design.
7. The reversible eye enhancement contact lens according to claim 1 wherein at least the first design and second design highlight the iris, using inner and outer effect design graphics, such that the inner and outer effect design graphics create a blending effect between the first design and the second design.
8. The reversible eye enhancement contact lens according to claim 7 wherein the inner or outer effect design graphics that produce the blending effect are translucent or opaque.
9. The reversible eye enhancement contact lens according to claim 7 wherein only a first design includes a blending effect, and the first design and second design are separated by a barrier layer.
10. The reversible eye enhancement contact lens according to claim 7 wherein at least the first design or second design includes limbal design graphics.
11. The reversible eye enhancement contact lens according to claim 1 or 3 wherein the printed layers further comprise one or more clear layers that produce an observable depth for the first design or second design.
12. The reversible eye enhancement contact lens according to claim 1, further comprising an annular shaped clear coat base layer overlying the first, second and third regions.
13. The reversible eye enhancement contact lens according to claim 12, further comprising a bulk lens material covering the annular shaped clear coat base layer and the first, second and third regions.

14. The reversible eye enhancement contact lens of any one of claims 1 to 3, wherein the first design and second design differ in colorant, color, limbal design graphics, inner effect design graphics, outer effect design graphics, barrier layers, clear coat base layers, or combinations thereof.
15. The reversible eye enhancement contact lens of any one of claims 1 to 4, wherein the colorants comprise metal oxide pigments, coated metal oxide pigments, organic dyes, interference pigments, and combinations thereof.
16. The reversible eye enhancement contact lens of any one of claims 1 to 5, wherein, one or more of the diameter, the base curve, the peripheral thickness, or the center thickness are configured such that a dSag is less than 1.2% when comparing a first orientation of the main body with at least a portion of the first surface abutting an eye of a wearer and a second orientation of the main body with at least a portion of the second surface abutting the eye of the wearer.
17. The reversible eye enhancement contact lens of any one of claims 1 to 5, wherein, one or more of the diameter, the base curve, the peripheral thickness, or the center thickness are configured such that a dSag is less than 1.1% when comparing a first orientation of the main body with at least a portion of the first surface abutting an eye of a wearer and a second orientation of the main body with at least a portion of the second surface abutting the eye of the wearer.
18. The reversible eye enhancement contact lens of any one of claims 1 to 5, wherein, one or more of the diameter, the base curve, the peripheral thickness, or the center thickness are configured such that a dSag is less than 1.0% when comparing a first orientation of the main body with at least a portion of the first surface abutting an eye of a wearer and a second orientation of the main body with at least a portion of the second surface abutting the eye of the wearer.
19. The reversible eye enhancement contact lens of any one of claims 1 to 8, wherein the main body exhibits a modulus of elasticity of between 150 kPa and 1000 kPa as measured in accordance with ANSI Z80.20.

20. The reversible eye enhancement contact lens of claim 19, wherein the main body exhibits a modulus of elasticity between 270 kPa and 1000 kPa as measured in accordance with ANSI Z80.20.
21. The reversible eye enhancement contact lens of claim 19, wherein the main body exhibits a modulus of elasticity between 420 kPa and 1000 kPa as measured in accordance with ANSI Z80.20.
22. The reversible eye enhancement contact lens of any one of claims 1 to 21, wherein the diameter of the main body is between 13.8 millimeters and 15 millimeters.
23. The reversible eye enhancement contact lens of claim 22, wherein the diameter of the main body is between 14.3 millimeters and 14.8 millimeters.
24. The reversible eye enhancement contact lens of any one of claims 1 to 23, wherein the base curve of the main body is between 8 millimeters and 8.6 millimeters.
25. The reversible eye enhancement contact lens of claim 24, wherein the base curve of the main body is between 8 millimeters and 8.3 millimeters.
26. The reversible eye enhancement contact lens of claim 25, wherein the base curve of the main body is between 8 millimeters and 8.1 millimeters.
27. The reversible eye enhancement contact lens of any one of claims 1 to 26, wherein the center thickness of the main body is between 0.06 millimeters and 0.2 millimeters.
28. The reversible eye enhancement contact lens of claim 27, wherein the center thickness of the main body is between 0.1 millimeters and 0.2 millimeters.
29. A pad printing method of making the reversible eye enhancement contact lens of any one of claims 1 to 28 comprising the steps of:
- Printing an annular clear base layer on the front curve mold;
 - Printing at least two effect layers on the annular clear base layer, comprising limbal design graphics, inner effect design graphics, outer effect design graphics, and combinations thereof;
 - Optionally, printing at least one barrier layer between the effect layers;

- d. Optionally, printing at least one other annular clear base layer between effect layers;
- e. Dispensing a reactive monomer mixture of the bulk lens material onto the front curve mold;
- f. Curing the reactive monomer mixture of the bulk lens material around the clear base layer and effect layers;
- g. Removing the molds from the lens;
- h. Optionally, extracting the lens with solvents; and
- i. Optionally, sterilizing the lens by autoclaving'

wherein the effect layers are in the form of at least partially overlapping printed layers with a first design observable in the first orientation that is different than a second design observable design in the second orientation.

30. The pad printing method of claim 29 wherein the first design and second design highlight the iris, create limbal rings, brighten the sclera, and combinations thereof.

31. A reversible eye enhancement contact lens, the reversible eye enhancement lens comprising:

- a. a main body
- b. comprising a first surface and a second surface opposite the first surface, the main body having a diameter, a base curve, a peripheral thickness, and a center thickness;
- c. wherein, the edge profile and one or more of the diameter, the base curve, or the thickness profile are configured such that an apex height measured from an edge apex to a nearest surface of the eye is less than or equal to 0.020 millimeters when the lens is in an inverted orientation with at least a portion of the second surface abutting the eye of the wearer;
- d. the main body further comprising a first region corresponding to the scleral region of an eye; a second region corresponding to the limbal

region of an eye; a third region corresponding to an iris region of an eye;

- e. wherein the colorants are incorporated into the first region, the second region, the third region, or combinations thereof in the form of at least partially overlapping printed layers with a first design observable in the first orientation that is different than a second design observable in the second orientation.

- 32. The reversible eye enhancement contact lens according to claim 31, further comprising an annular shaped clear coat base layer overlying the first, second and third regions.
- 33. The reversible eye enhancement contact lens according to claim 31, further comprising a bulk lens material covering both the annular shaped clear coat base layer and the first, second and third regions.
- 34. The reversible eye enhancement contact lens of any one of claims 31 to 34, wherein the first design and second design in the first and second orientations differ in colorant, color, limbal design graphics, inner effect design graphics, outer effect design graphics, barrier layers, clear coat base layers, or combinations thereof.
- 35. The reversible eye enhancement contact lens of any one of claims 31 to 36, wherein the colorants comprise metal oxide pigments, coated metal oxide pigments, organic dyes, interference pigments, and combinations thereof.
- 36. The reversible eye enhancement contact lens of any one of claims 31 to 37, wherein the edge profile and one or more of the diameter, the base curve, or the thickness profile are configured such that a dSag is less than 1.2% when comparing a first orientation of the main body with at least a portion of the first surface abutting an eye of a wearer and a second orientation of the main body with at least a portion of the second surface abutting the eye of the wearer.
- 37. The reversible eye enhancement contact lens of any one of claims 31 to 36, wherein the edge profile and one or more of the diameter, the base curve, or the

- thickness profile are configured such that a dSag is less than 1.1% when comparing a first orientation of the main body with at least a portion of the first surface abutting an eye of a wearer and a second orientation of the main body with at least a portion of the second surface abutting the eye of the wearer.
38. The reversible eye enhancement contact lens of any one of claims 31 to 36, wherein the edge profile and one or more of the diameter, the base curve, or the thickness profile are configured such that a dSag is less than 1.0% when comparing a first orientation of the main body with at least a portion of the first surface abutting an eye of a wearer and a second orientation of the main body with at least a portion of the second surface abutting the eye of the wearer.
39. The reversible eye enhancement contact lens of any one of claims 28 to 39, wherein the main body exhibits a modulus of elasticity of between 150 kPa and 1000 kPa as measured in accordance with ANSI Z80.20.
40. The reversible eye enhancement contact lens of claim 39, wherein the main body exhibits a modulus of elasticity between 270 kPa and 1000 kPa as measured in accordance with ANSI Z80.20.
41. The reversible eye enhancement contact lens of claim 40, wherein the main body exhibits a modulus of elasticity between 420 kPa and 1000 kPa as measured in accordance with ANSI Z80.20.
42. The reversible eye enhancement contact lens of any one of claims 31 to 41, wherein the diameter of the main body is between 13.8 millimeters and 15 millimeters.
43. The reversible eye enhancement contact lens of claim 42, wherein the diameter of the main body is between 14.3 millimeters and 14.8 millimeters.
44. The reversible eye enhancement contact lens of claim 43, wherein the base curve of the main body is between 8 millimeters and 8.6 millimeters.
45. The reversible eye enhancement contact lens of claim 44, wherein the base curve of the main body is between 8 millimeters and 8.3 millimeters.
46. The reversible eye enhancement contact lens of claim 45, wherein the base curve of the main body is between 8 millimeters and 8.1 millimeters.

47. The reversible eye enhancement contact lens of any one of claims 31 to 46, wherein the center thickness of the main body is between 0.06 millimeters and 0.2 millimeters.
48. The reversible eye enhancement contact lens of claim 47, wherein the center thickness of the main body is between 0.1 millimeters and 0.2 millimeters.
49. A pad printing method of making the reversible eye enhancement contact lens of any one of claims 31 to 48 comprising the steps of:
- a. Printing an annular clear base layer on the front curve mold;
 - b. Printing at least two effect layers on the annular clear base layer, comprising limbal design graphics, inner effect design graphics, outer effect design graphics, and combinations thereof;
 - c. Optionally, printing at least one barrier layer between the effect layers;
 - d. Optionally, printing at least one other annular clear base layer between effect layers;
 - e. Dispensing a reactive monomer mixture of the bulk lens material onto the front curve mold;
 - f. Curing the reactive monomer mixture of the bulk lens material around the clear base layer and effect layers;
 - g. Removing the molds from the lens;
 - h. Optionally, extracting the lens with solvents; and
 - i. Optionally, sterilizing the lens by autoclaving
- wherein the effect layers are in the form of at least partially overlapping printed layers with a first design observable in the first orientation that is different than a second design observable design in the second orientation.
50. The pad printing method of claim 49 wherein the first design and second design highlight the iris, create limbal rings, brighten the sclera, and combinations thereof.
51. A kit comprising at least one pair of reversible eye enhancement contact lens according to any one of the foregoing claims wherein each lens has a first design that provides a subtle change to the observed design relative to the observed

eye and a second design that provides a substantial change to the observed design relative to the observed eye.