CLAIMS

1. A storage case for storing one or more ophthalmic lenses, the storage case comprising:

an ophthalmic lens storage compartment;

a cap for sealing the storage compartment from an ambient atmosphere; and

one or more disinfection radiation windows at least partially transparent to disinfecting radiation, wherein an aggregate area of radiation windows is sufficient to admit an amount of radiation capable of killing an organism on an ophthalmic lens stored in the storage compartment.

2. The storage case of claim 1 additionally comprising a reflective surface for reflecting disinfecting radiation towards an ophthalmic lens.

3. The storage case of claim 2 wherein the storage compartment comprises the reflective surface.

4. The storage case of claim 2 wherein the cap comprises the reflective surface.

5. The storage case of claim 1 additionally comprising an alignment mechanism for positioning a lens stored within the storage case.

6. The storage case of claim 5 wherein the alignment mechanism comprises a pedestal.

7. The storage case of claim 6 wherein the pedestal comprises a convex surface comprising an arc generally equivalent to an arc of a concave surface of an ophthalmic lens to be stored within the storage case.

8. The storage case of claim 7 wherein the pedestal comprises a reflective surface.

9. The storage case of claim 5 wherein the alignment mechanism comprises a concave surface comprising an arc generally equivalent to an arc of a convex surface of an ophthalmic lens to be stored within the storage case.

10. The storage case of claim 1 additionally comprising an optic for directing disinfecting radiation towards an ophthalmic lens stored in the storage case.

11. The storage case of claim 10 wherein the storage compartment comprises the optic for directing disinfecting radiation towards the ophthalmic lens stored in the storage case.

12. The storage case of claim 10 wherein the cap comprises the optic for directing disinfecting radiation towards the ophthalmic lens stored in the storage case.

13. The storage case of claim 1 wherein the cap comprises at least one disinfection radiation window.

14. The storage case of claim 1 wherein the storage compartment comprises at least one disinfection radiation window.

15. The storage case of claim 1 wherein the disinfection radiation window comprises a plastic transparent to ultraviolet radiation.

16. The storage case of claim 1 wherein the disinfection radiation window comprises a glass transparent to ultraviolet radiation.

17. The storage case of claim 1 wherein the disinfection radiation window comprises a plastic transparent to radiation of a wavelength of between about 254 nanometers to 280 nanometers.

18. The storage case of claim 1 wherein the cap comprises a fastening mechanism comprising a threaded portion.

19. The storage case of claim 1 wherein the cap comprises a fastening mechanism comprising a snap.

20. The storage case of claim 1 wherein the cap comprises a fastening mechanism comprising a tapered interface.

CLAIMS

1. A storage case for storing one or more ophthalmic lenses during disinfecting via exposure to ultraviolet radiation, the storage case comprising:

an ophthalmic lens storage compartment, wherein the ophthalmic lens storage container is capable of fitting in a personal disinfecting base, wherein the fitting allows for directed exposure of an ophthalmic lens to a radiation source included within the personal disinfecting base;

a removable cap for sealing the storage compartment from an ambient atmosphere;

one or more disinfection radiation windows comprising injection moldable plastic 90% or more transparent to disinfecting radiation passing through the disinfection window, wherein the disinfecting radiation comprises ultraviolet light in the range of about 254 nanometers to 280 nanometers; and

an alignment mechanism for aligning the ophthalmic lens stored in the storage compartment in the path of the disinfection radiation window, wherein the alignment mechanism is capable of orienting the ophthalmic lens relative to the radiation source.

2. The storage case of claim 1 wherein the alignment mechanism comprises a pedestal.

3. The storage case of claim 2 wherein the pedestal comprises a convex surface comprising an arc generally equivalent to an arc of a concave surface of an ophthalmic lens to be stored within the storage case.

4. The storage case of claim 3 wherein the pedestal comprises a reflective surface, wherein the reflective surface is capable of reflecting disinfecting radiation from the disinfecting base to intersect with the surface of the ophthalmic lens at predefined angles.

5. The storage case of claim 1 wherein the alignment mechanism comprises a concave surface comprising an arc generally equivalent to an arc of a convex surface of an ophthalmic lens to be stored within the storage case.

6. The storage case of claim 1 additionally comprising an optic for directing disinfecting radiation towards an ophthalmic lens stored in the storage case.

7. The storage case of claim 6 wherein the storage compartment comprises the optic for directing disinfecting radiation towards the ophthalmic lens stored in the storage case.

8. The storage case of claim 6 wherein the removable cap comprises the optic for directing disinfecting radiation towards the ophthalmic lens stored in the storage case.

9. The storage case of claim 1 wherein the removable_cap comprises at least one disinfection radiation window.

10. The storage case of claim 1 wherein the storage compartment comprises at least one disinfection radiation window.

11. The storage case of claim 1 wherein the removable cap comprises a fastening mechanism comprising a threaded portion.

12. The storage case of claim 1 wherein the removable cap comprises a fastening mechanism comprising a snap.

13. The storage case of claim 1 wherein the removable cap comprises a fastening mechanism comprising a tapered interface.