Claims:

1. A dosing system for delivery of a lens formulation to a contact lens forming mold, the dosing system comprising:

a carrier portion configured for holding a contact lens mold;

a lens formulation delivery device; and

an alignment mandrel configured for retaining the lens formulation delivery device, wherein the lens formulation delivery device is retained in a specified position relative to the contact lens mold for precise location of delivery of the lens formulation within the contact lens mold,

wherein the carrier portion comprises a carrier-mold-engagement portion for retaining the mold in a fixed position relative to the carrier portion,

wherein the carrier-mold-engagement portion comprises a flange configured for engagement within a channel of the contact lens mold,

wherein the flange comprises an annular ring flange projecting upwardly from a top face of the carrier portion,

wherein the alignment mandrel comprises an annular base configured for engagement around the annular ring flange of the carrier portion,

wherein the annular ring flange of the carrier portion has an outer diameter of between 20mm to 25mm,

wherein the alignment mandrel is an edge dosing alignment mandrel configured to retain the lens formulation delivery device in the specified position for delivery of the lens formulation in a ring-shaped pattern surrounding a center location in the contact lens mold, wherein the edge dosing alignment mandrel comprises an edge lens formulation distribution portion for receiving the lens formulation from the lens formulation delivery device, the edge lens formulation distribution portion comprising a generally circular array of openings for distributing the lens formulation into the ring-shaped pattern.

2. The dosing system of claim 1, wherein the lens formulation delivery device is a syringe having a syringe barrel and a syringe plunger, and wherein the alignment mandrel comprises a top panel having an opening configured to securely engage the

syringe barrel.

3. The dosing system of claim 1 or 2, wherein the alignment mandrel is a center dosing alignment mandrel configured to retain the lens formulation delivery device in the specified position for delivery of the lens formulation at a center location in the contact lens mold.

4. The dosing system of any one of claims 1 to 3, further comprising a second alignment mandrel for delivery of a second lens formulation in a ring-shaped pattern surrounding the center location in the contact lens mold.

5. The dosing system of claim 4, wherein the edge lens formulation distribution portion further comprises a protuberance having a peak generally centered within the circular array of openings.

6. The dosing system of claim 4, wherein the edge lens formulation distribution portion further comprises downwardly extending tubes in fluid communication with the openings.

7. The dosing system of any one of claims 1 to 3, wherein the edge lens formulation distribution portion further comprises a protuberance having a peak generally centered within the circular array of openings.

8. The dosing system of any one of claims 1 to 3, wherein the edge lens formulation distribution portion further comprises downwardly extending tubes in fluid communication with the openings.

9. The dosing system of any one of claims 1 to 8, wherein the alignment mandrel is configured for detachable coupling with the carrier portion.

10. A method of forming a contact lens from a center lens formulation and an edge lens formulation, the method comprising:

holding a contact lens front curve mold portion in a carrier;

engaging a center dosing alignment mandrel with the carrier over the contact lens front curve mold portion;

delivering a center lens formulation from a first delivery device retained in a first delivery position by the center dosing alignment mandrel to a center position within the contact lens front curve mold portion;

disengaging the center dosing alignment mandrel from the carrier;

engaging an edge dosing alignment mandrel with the carrier over the contact lens front curve mold portion, wherein the edge dosing alignment mandrel configured to retain a second delivery device in a second delivery position for delivery of an edge lens formulation in a ring-shaped pattern surrounding the center position in the contact lens front curve mold portion, wherein the edge dosing alignment mandrel comprises an edge lens formulation distribution portion for receiving the edge lens formulation from the second delivery device, the edge lens formulation distribution portion comprising a generally circular array of openings for distributing the edge lens formulation into the ring-shaped pattern; and

delivering the edge lens formulation from the second delivery device retained in a second delivery position by the edge dosing alignment mandrel into the ring-shaped pattern around the center position within the contact lens front curve mold portion.

11. The method of claim 10, further comprising engaging a contact lens base curve mold portion with the contact lens front curve mold portion.

12. The method of claim 10 or 11, further comprising curing the center lens formulation and the edge lens formulation to form a contact lens.