Claims

1. Carrier for carrying an ophthalmic lens, in particular a contact lens such as a soft contact lens, during its treatment in a bath, the carrier comprising:

a basket (10) comprising a basket wall defining a concave cavity for accommodating an ophthalmic lens (100), the basket (10) further comprising at least three recesses (12), said recesses (12) open toward a cavity defined by the basket wall and arranged in the basket wall at different locations along the circumference of the basket (10); and

a retainer (20) comprising at least three retainer arms (21) arranged in a star-shaped configuration corresponding to the arrangement of the recesses (12) along the circumference of the basket (10),

wherein in an assembled state each retainer arm (21) of the retainer (20) engages with a corresponding one of the recesses (12) in the basket wall of the basket (10) to retain the ophthalmic lens (100) in the cavity;

wherein the basket wall comprises at least three circumferentially arranged basket wall segments (11) defining the concave cavity,

wherein between adjacently arranged basket wall segments (11) of the at least three circumferentially arranged basket wall segments (11) one of the said recesses (12) is arranged, respectively,

wherein each basket wall segment (11) of the at least three basket wall segments comprises a U-shaped or C-shaped frame (13, 14).

2. Carrier according to claim 1, wherein the recesses (12) are continuous recesses extending through the basket wall.

3. Carrier according to claim 2, wherein the retainer arms (21) extend radially outwards through the continuous recesses (12) in the basket wall.

4. Carrier according to claim 1, wherein the recesses (12) are arranged to extend downwards from an upper rim of the basket wall.

5. Carrier according to claim 1, wherein an open area percentage of the basket wall is at least 30%.

6. Carrier according to claim 1, wherein each of the retainer arms (21) comprises a fin or a blade or a bar.

7. Carrier according to claim 1, wherein the retainer arms (21) radially merge in a common central hub (22) of the retainer arms.

8. Carrier according to claim 1, wherein the basket wall and each of the retainer arms (21) comprise a lens-contacting surface, and wherein the lens-contacting surface of the basket wall is larger than the sum of the lens-contacting surfaces of all retainer arms (21).

9. Carrier according to claim 8, wherein the lens-contacting surface of the respective retainer arm (21) is convex.

10. Carrier array (40) for forming a plurality of carriers according to claim 1, the carrier array (40) comprising a plurality of baskets (10) and a plurality of retainers (20)

each basket (10) comprising a basket wall defining a concave cavity for accommodating an ophthalmic lens (100), the basket (10) further comprising at least three recesses (12) arranged in the basket wall at different locations along the circumference of the basket (10); and

each retainer (20) comprising at least three retainer arms (21) arranged in a star-shaped configuration corresponding to the arrangement of the recesses (12) along the circumference of the basket (10),

wherein a said retainer (20) is integrally formed with each basket (10) and is arranged on a side of the basket (10) opposite to the basket wall defining the concave cavity, and

wherein the baskets (10) and retainers (20) of the carrier array (40) are arranged in one or more rows or in a matrix configuration comprising rows and columns.

11. Carrier tray (30) comprising a frame (31) and one or more carrier arrays (40) according to claim 10 attached to the frame (31).

12. Carrier stack system (50) comprising a plurality of carrier trays (30) according to claim 11 arranged one above the other to form a stack, wherein with respect to two carrier trays (30) adjacently arranged in the stack the retainer arms (21) of the retainer (20) of an upper carrier tray of the two adjacently arranged carrier trays (30) engage with the recesses (12) in the basket wall of the basket (10) of the lower carrier tray of the two adjacently arranged carrier trays (30).