Claims

1. Lens mold carrier (1; 2) comprising:
a frame (10; 20) extending in a plane (x,y; u,v) and comprising a plurality of individual compartments (100; 200);
at least one mold unit (11; 21) arranged in one of the individual compartments (100; 200) in a manner secured against falling out, the at least one mold unit (11; 21) including an adapter piece (110; 210) and a lens mold (112; 212) fixedly connected to the adapter piece (110; 210);
wherein the adapter piece (110; 210) is floatingly arranged within the compartment (100; 200) to allow for limited movement of the adapter piece (110; 210) within the compartment (100; 200) at least in a translation plane parallel to or coincident with the plane (x,y; u,v) in which the frame (10; 20) extends.

2. Lens mold carrier according to claim 1, wherein the range of limited movement of the adapter piece (110; 210) within the individual compartment (100; 200) of the frame (10; 20) in the translation plane is up to about ±0.5 mm.

3. Lens mold carrier according to claim 1, wherein the range of limited movement of the adapter piece (110; 210) within the individual compartment (100; 200) of the frame (10; 20) in the translation plane is up to about ±0.3 mm.

4. Lens mold carrier according to claim 1, wherein the frame (10; 20) comprises a plurality of compartment walls (101,102,103,104,105; 201, 202,203,204,205) bounding the individual compartments (100; 200), and wherein the adapter piece (110; 210) comprises a plurality of abutment posts (1106; 2106) arranged thereon in a manner facing the compartment walls while allowing for the limited movement of the adapter piece (110; 210) in the translation plane.

5. Lens mold carrier according to claim 1, wherein the adapter piece (110; 210) comprises resilient latches (113; 213) releasably engaging the frame or the compartment walls, respectively, to secure the mold unit (11; 21) against falling out of the compartment (100; 200).

6. Lens mold carrier according to claim 2, wherein the adapter piece (110; 210) comprises resilient latches (113; 213) releasably engaging the frame or the compartment walls, respectively, to secure the mold unit (11; 21) against falling out of the compartment (100; 200).

7. Lens mold carrier according to claim 1, wherein the adapter piece (110; 210) further comprises a mold identifier (1104; 2104) containing information allowing to identify the lens mold (112; 212) fixedly arranged in the adapter piece (110; 210).

8. Lens mold carrier according to claim 6, wherein the adapter piece (110; 210) further comprises a mold identifier (1104; 2104) containing information allowing to identify the lens mold (112; 212) fixedly arranged in the adapter piece (110; 210).

9. Lens mold carrier according to claim 7, wherein the mold identifier (1104; 2104) comprises a transponder.

10. Lens mold carrier according to claim 1, wherein the lens mold (112) is rigidly arranged in a sleeve (111) which is fixedly connected to the adapter piece (110), and wherein the sleeve (111) comprises a chamfered front end (1110).

11. Lens mold carrier according to claim 1, wherein the lens mold (212) is rigidly arranged in a sleeve (211) which is fixedly connected to the adapter piece (210), and wherein the sleeve (211) comprises a rounded front end (2110).

12. Lens mold carrier according to claim 2, wherein the lens mold (212) is rigidly arranged in a sleeve (211) which is fixedly connected to the adapter piece (210), and wherein the sleeve (211) comprises a rounded front end (2110).

13. Lens mold carrier according to claim **1**, wherein the mold unit (**21**) further comprises an adjusting ring (**214**) firmly attached to the lens mold or to the sleeve, respectively, and wherein the adjusting ring (**214**) is lockingly connected to the adapter piece (**210**) at fixed angular positions and can be rotated between these fixed angular positions in the translation plane or in a plane parallel thereto.

14. Lens mold carrier according to claim **1**, wherein the adapter piece (**110**) comprises at least one stub (**1105**) arranged on the adapter piece (**110**) adapted to be engaged by a retainer for holding the adapter piece (**110**) down in the compartment (**100**).

15. Lens mold carrier according to claim **1**, wherein the adapter piece (**110**; **210**) is made of plastic.

16. Lens mold carrier according to claim **1**, further comprising a carrier identifier (**106**; **206**) arranged on the frame (**10**; **20**) and containing information allowing to identify the lens mold carrier (**1**; **2**) as well as to identify which lens mold (**112**; **212**) is arranged in which compartment (**100**; **200**) of the frame (**10**; **20**).

17. Lens mold carrier according to claim **7**, further comprising a carrier identifier (**106**; **206**) arranged on the frame (**10**; **20**) and containing information allowing to identify the lens mold carrier (**1**; **2**) as well as to identify which lens mold (**112**; **212**) is arranged in which compartment (**100**; **200**) of the frame (**10**; **20**).

18. Lens mold carrier according to claim **16**, wherein the carrier identifier (**106**; **206**) comprises a transponder.

19. Lens mold carrier according to claim **1**, wherein the lens mold carrier further comprises at least one transport eyelet (**107**; **207**) arranged in the frame (**10**; **20**), the at least one transport eyelet (**107**; **207**) being sized and shaped to allow a transport pin to engage with the transport eyelet (**107**; **207**) for movement of the lens mold carrier (**1**; **2**).

20. Lens mold carrier according to claim **19**, where the lens mold carrier further comprises at least one fixation eyelet (**108**; **208**) different from the transport eyelet (**107**; **207**), the fixation eyelet (**108**; **208**) being arranged in the frame (**10**; **20**) and being sized and shaped to allow a fixation pin to engage with the fixation eyelet (**108**; **208**) to allow for positional fixation of the lens mold carrier (**1**; **2**) as the transport pin is disengaged from the transport eyelet (**107**; **207**).