Claims

1. Mold unit (22) for molding ophthalmic lenses, the mold unit (22) comprising:
- an adapter piece (220) for insertion into a compartment (20) of a lens mold carrier (2), the adapter piece comprising an opening (2200) extending around a longitudinal axis (2201);
- a sleeve (221) fixedly connected to the adapter piece (220) and extending along the longitudinal axis (2201) through the opening (2200) of the adapter piece (220);
- a re-usable glass lens mold (222) rigidly mounted to the sleeve (221);
- an adjustment ring (224) firmly attached to the sleeve (221) and mounted to the sleeve (221) in a manner such as to circumferentially surround a portion of the sleeve (221);
wherein the adjustment ring (224) comprises a flat circular outer engagement surface (2244) facing radially outwardly and extending in a circumferential direction around the sleeve (221), and wherein the adapter piece (220) comprises at least one clamping block (2211) having a flat inner clamping surface (2214) facing radially inwardly towards the flat circular outer engagement surface (2244) of the adjustment ring (224), the clamping block (2211) being arranged such that the flat inner clamping surface (2214) of the clamping block (2211) frictionally clamps the flat circular outer engagement surface (2244) of the adjustment ring (224) so as to prevent inadvertent rotation of the sleeve (221) relative to the adapter piece (220) but to allow rotation of the sleeve (221) relative to the adapter piece (220) upon the application of a torque to the sleeve (221) which is higher than a predetermined threshold torque;
wherein the adjustment ring (224) is composed of two ring parts (2240, 2241) which are assembled in a form-locked manner to form the adjustment ring (224);
wherein the clamping blocks (2211) are made of polyoxymethylene and wherein the adjustment ring (224) is made of polyketone;
wherein the area of the flat circular inner clamping surface (2214) of each of the two clamping blocks (2211) is in the range of 15 mm^2 to 25 mm^2;
wherein the flat inner clam in surface (2214) of each of the two damping blocks (2211) is circular and extends in the circumferential direction with a curvature of the flat circular inner clamping surface (2214) of each of the two clamping blocks (2211) corresponding to a curvature of the flat circular outer engagement surface (2244) of the adjustment ring (224), and
wherein an inner diameter (2215) between the flat circular inner clamping surfaces (2214) of the two clamping blocks (2211) is 0.6 mm-1.2 mm smaller than an outer diameter (2245) of the flat circular outer engagement surface (2244) of the adjustment ring (224).

2. Mold unit according to claim 1, wherein the flat circular inner clamping surfaces (2214) are provided with a chamfer (2216) at an axial end thereof for simplifying introduction of the adjustment ring (224) firmly mounted to the sleeve (221) between the flat circular inner clamping surfaces (2214) of the two clamping blocks (2211) during assembly of the mold unit.

3. Mold unit according to claim 1, wherein the lens mold (222) has a lens molding surface that is not rotationally symmetrical.

4. Mold unit according to claim 1, wherein the sleeve (221) comprises engagement surfaces (2220) for an adjustment tool for rotating the sleeve (221) in the circumferential direction to a desired angular position.

5. Mold unit according to claim 1, wherein the lens mold (222) rigidly mounted to the sleeve (221) is a male mold having a toric lens molding surface.