

7

6. A method according to claim 1, in which said introducing step comprises introducing said photopolymerizable composition into a capsule bag of an eye.

7. A method according to claim 1, which includes the step of first implanting an artificial intraocular lens shell, and in which said introducing step comprises introducing said photopolymerizable composition into said lens shell.

8. A method of providing a composition for an eye, including the steps of:

providing a photopolymerizable composition for preparing an intraocular-lens filling material, said composition containing the following components:

a) 90-99.99% by weight of at least one of the group consisting of at least diacrylic and dimethacrylic acid esters of bisphenols, b) 0.01-5% by weight of at least one photoinitiator that is activatable with light in the wavelength range 400-500 nm, c) 0-9.98% by weight of an UV-absorber that can absorb light of wavelengths <400 nm, and d) 0-9.98% by weight of other auxiliary substances, whereby in each case the quantity refers to the total mass;

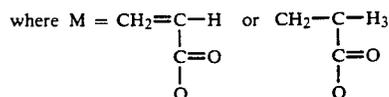
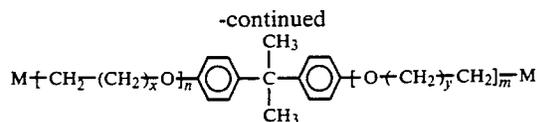
during an operation, introducing said photopolymerizable composition directly into an eye; and curing said photopolymerizable composition with light in the wavelength range 400-500 nm.

9. A method according to claim 9, in which as said component a) the diacrylic or dimethacrylic acid esters of bisphenol A or the bishydroxypolyalkoxy bisphenol A derivatives lengthened with ethylene oxide or propylene oxide are used.

10. A method according to claim 10, in which as said component a) a compound of the general formula I is used:

Formula I:

8



and n, m=1-5, in particular 1-3, and x, y=1, 2, 3, in particular 1.

11. A method according to claim 9, which includes 94-99.799% by weight of component a), 0.1-2% by weight of component b), 0.001-2% by weight of component c), and 0.1-2% by weight of component d).

12. A method of providing a composition for an eye, including the steps of:

providing a photopolymerizable composition for preparing an intraocular-lens filling material, said composition containing the following components:

a) 90-99.99% by weight of at least one of the group consisting of at least bisacrylic acid and bismethacrylic acid esters of cycloaliphatic diols or the corresponding derivatives in which the hydroxyl groups are lengthened with 1-5 and in particular 1-3 ethylene oxide or propylene oxide units, b) 0.01-5% by weight of at least one photoinitiator that is activatable with light in the wavelength range 400-500 nm, c) 0-9.98% by weight of an UV-absorber that can absorb light of wavelengths <400 nm, and d) 0-9.98% by weight of other auxiliary substances, whereby in each case the quantity refers to the total mass;

during an operation, introducing said photopolymerizable composition directly into an eye; and curing said photopolymerizable composition with light in the wavelength range 400-500 nm.

13. A method according to claim 12, in which as said component a) the diols of the bis-(hydroxymethyl)tricyclo-[5.2.1.0^{2,6}] decane lengthened with ethylene oxide are used, each hydroxyl group being lengthened with 1-5 and preferably with 1-3 ethylene oxide units.

* * * * *

45

50

55

60

65