

through points with coordinates (-1, 1.5) and (-1.5, 2.75) relative to said reference origin; for low values of the distance from the axis comprises a second section intersecting the diopter axis vertically between points with horizontal coordinates (-2.5) and (-4) relative to said reference origin, and for intermediate values of the distance from the axis comprising a median section merging monotonically and continuously with said first and second sections.

2. Optical component according to claim 1 wherein said numerical parameters are chosen so that for far vision the longitudinal spherical aberration due to the optical system comprising the optical component and the eye model used, minus the crystalline lens where appropriate, is substantially the same as that for the eye model alone, complete with its crystalline lens

3. Optical component according to claim 1 wherein said numerical parameters are chosen so that for far vision the longitudinal spherical aberration due to the optical system comprising the optical component and said eye model, minus the crystalline lens where appropriate, is substantially corrected.

4. Optical component according to claim 1 wherein said eye model is an accommodation-dependent model for reproducing an increment of refractive power of an eye during accommodation.

5. Optical component according to claim 1 wherein the peripheral part of the surface having an aspherical surface in its center comprises a toroidal surface whose radius of curvature is equal to that of said aspherical surface where it merges there with.

6. Optical component according to claim 1 wherein said aspherical surface is delimited by a circumference having a radius less than or equal to 2.35 mm.

7. Optical component according to claim 1 wherein the refractive index of the image medium is 1.336.

8. Optical component according to claim 1 wherein the focal length of said eye model is constant.

9. Optical component according to claim 8 wherein said focal length is between 18 and 25 mm.

10. Optical component according to claim 9 wherein said focal length is 21.5 mm.

11. Optical component according to claim 1 in the form of an intra-ocular implant.

12. Optical component according to claim 1 in the form of a contact lens.

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