CLAIMS

1. A lens element intended to be worn in front of an eye of a person comprising:
- a refraction area comprising an optical center and having a refractive power based on a prescription for said eye of the person; and
- a plurality of at least three optical elements, the optical elements being micro-lenses having a contour shape being inscribable in a circle having a diameter greater than or equal to 0.8 mm and smaller than or equal to 3.0 mm,
wherein the optical elements are configured so that along any section passing through the optical center of the lens element, a mean sphere of the optical elements increases from the optical center towards a peripheral part of the lens element.

2. The lens according to claim 1, wherein the optical elements are configured so that along at least one section of the lens the mean cylinder of optical elements increases from a point of said section towards the peripheral part of said section.

3. The lens element according to claim 1 or 2, wherein the optical elements are configured so that along the at least one section of the lens the mean sphere and/or the mean cylinder of optical elements increases from the center of said section towards the peripheral part of said section.

4. The lens element according to any of the preceding claims, wherein the optical elements are configured so that along any section passing through the optical center of the lens the cylinder of the optical elements increases from the optical center towards the peripheral part of the lens.

5. The lens element according to any of claims 1 to 3, wherein the refraction area comprises a far vision reference point, a near vision reference, and a meridian line joining the far and near vision reference points, the optical elements are configured so that in standard wearing conditions along any horizontal section of the lens the mean sphere and/or the mean cylinder of the optical elements increases from the intersection of said horizontal section with the meridian line towards the peripheral part of the lens.

6. The lens element according to claim 5, wherein the mean sphere and/or the mean cylinder increase function along the sections are different depending on the position of said section along the meridian line.

7. The lens element according to claims 5 or 6, wherein the mean sphere and/or the mean cylinder increase function along the sections are unsymmetrical.

8. The lens element according to any of the preceding claims, wherein the optical elements are configured so that in standard wearing condition the at least one section is a horizontal section.

9. The lens element according to any of the preceding claims, wherein the mean sphere and/or the mean cylinder of optical elements increases from a first point of said section towards the peripheral part of said section and decreases from a second point of said section towards the peripheral part of said section, the second point being closer to the peripheral part of said section than the first point.

10. The lens element according to any of claims 1 to 8, wherein the mean sphere and/or the mean cylinder increase function along the at least one horizontal section is a Gaussian function.

11. The lens element according to any of claims 1 to 8, wherein the mean sphere and/or the mean cylinder increase function along the at least one horizontal section is a Quadratic function.

12. The lens according to any of the preceding claims, wherein the optical elements are configured have an optical function of focusing an image on a position other than the retina so as to slow down the progression of the abnormal refraction of the eye.

13. The lens element according to any of the preceding claims, the optical elements are spherical micro-lenses.

14. The lens element according to any of the preceding claims, wherein for every circular zone having a radius comprised between 4 and 8 mm comprising a geometrical center located at a distance from an optical center of the lens element greater or equal to said radius + 5mm, a ratio between a sum of areas of parts of optical elements located inside said circular zone and an area of said circular zone is comprised between 20% and 70%.

15. The lens element according to any of the preceding claims, wherein the at least three optical elements are non-contiguous.