

United States

Maitenaz

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[54] **OPHTHALMIC LENSES WITH PROGRESSIVELY VARYING FOCAL POWER**

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[51] Int. Cl.² **G02C 7/06**

[58] Field of Search **351/169, 176; 350/189**

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[57] **ABSTRACT**

Ophthalmic lens having an aspheric surface of which the section taken through a substantially vertical plane is an umbilical curve along which the focal power of the lens varies progressively. At each point B_{ij} of the aspheric surface the section of this surface through a substantially vertical plane π_j parallel to the plane π of the umbilical curve MM_1 is a curve Σ_j the curvature $C_{B_{ij}}$ of which at said point B_{ij} complies with the relationship:

$$|C_{B_{ij}} - C_{A_i}| \leq N$$

Wherein C_{A_i} is the curvature of said umbilical curve MM_1 at a point A_i of said umbilical curve which lies on a same horizontal section S_i as said point B_{ij} , the lens being in its position of use, N being a number having a predetermined value complying with the relationship

$$N \leq 3.5 A$$

wherein A is the power addition, in dioptres, between the distant-vision center and the close-vision center of the lens.

2 Claims, 15 Drawing Figures

