

[54] **METHOD OF PREPARING A REFRACTIVE SURFACE OF A PROGRESSIVELY VARIABLE FOCAL POWER OPHTHALMIC LENS**

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[57] **ABSTRACT**

A method of preparing a surface of refraction of a progressively variable power ophthalmic lens, in which a first family of surfaces S_1 having predetermined optical characteristics is determined within a given system of reference. Within the same system of reference a second family of surfaces S_2 having other predetermined characteristics is determined, each surfaces S_1 of the first family is associated with each surfaces S_2 and their curves of intersection C and D are determined. Among the pairs of surfaces S_1S_2 is selected that one whose curves C and D provide therebetween a corridor respectively at least 15 and 18 mm wide in the intermediate vision zone Z_2' and in the near vision zone Z_3' . The refractive surface S of the ophthalmic lens is selected so as to have the part of the surface S of the selected pair which is between the curves C and D, and the part of the surface S_2 of the selective pair which is outside curves C and D.

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[51] Int. Cl.³ **G02C 7/06**

[52] U.S. Cl. **351/169; 351/176; 351/177**

[58] Field of Search 351/169, 176, 177

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5 Claims, 19 Drawing Figures

