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[54] **OPHTHALMIC LENS OF CHANGING POWER**
5 Claims, 12 Drawing Figs.

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

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[50] Field of Search 351/169,
171, 176, 177

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ABSTRACT: An optical lens is provided, having a convex aspheric front surface useful for the correction of presbyopia. This front surface is a nonaxial portion of a convex surface of revolution, all meridian sections of which are identical elliptical arcs and all sections of this surface other than those sections normal to the axis of revolution being noncircular, the axis of revolution of said convex surface coinciding with a straight portion of the modified evolute of said elliptical arc. This front surface is characterized by having a substantially constant difference in principal curvatures at all points along all meridional sections providing a substantially constant astigmatism at all points outside the vertical principal meridian, while both principal curvatures along any elliptical arc meridian section change continuously and regularly by substantially equal amounts to provide an accelerating surface. This novel front surface is intended for use in a lens having a negatively curved spherocylindrical back surface optically coating with the front surface and at least neutralizing the constant astigmatism of the front surface.

