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United States Patent [19]

Schachar

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[54] **MULTIFOCAL OPHTHALMIC LENS**

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[52] **U.S. Cl.** ..... **351/7;** 351/41; 351/158; 351/159; 350/331 R

[58] **Field of Search** 351/41, 159, 168, 7, 351/158; 350/331

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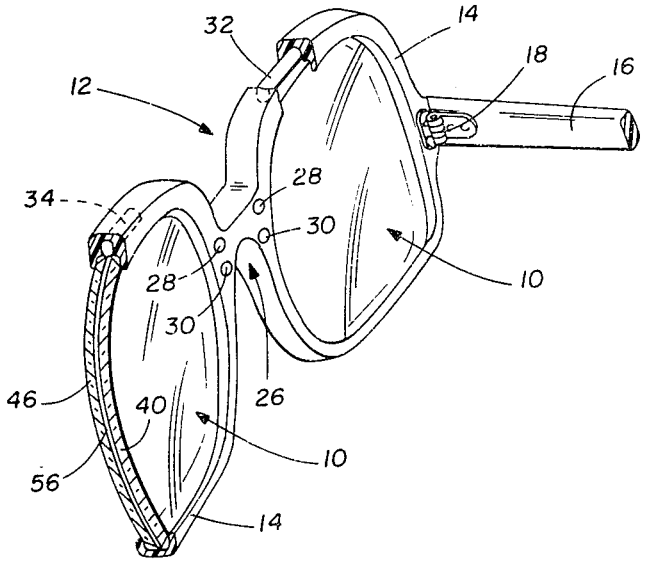
[57] **ABSTRACT**

The specification discloses a multifocal ophthalmic lens to provide a variable focusing power lens for near and farsighted corrected vision. The lens includes a first and second lens element. First and second electrodes are disposed between the lens elements, and a film of liquid crystal is disposed between the electrodes. A voltage supply source is provided for applying a voltage to the electrodes to vary the index presented by the liquid crystal film to thereby provide a variation in the index of refraction and focal length of the lens elements. Circuitry is provided for varying the voltage applied to the electrodes to determine the focusing power of the lens.

3 Claims, 8 Drawing Figures