United States Patent [19]

Seidner

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[54] **MONOVISION CORNEAL CONTACT LENSES**

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[52] **U.S. Cl.** **351/161**

[58] **Field of Search** ..... 351/160 R, 160 H, 161, 351/162

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,415,597	12/1968	Harman	351/161
3,597,055	8/1971	Neefe	351/161
3,984,506	10/1976	Tsuetaki	351/161
4,162,122	7/1979	Cohen	351/161
4,302,081	11/1981	Tsuetaki	351/161
4,477,158	10/1984	Pollock et al.	351/161
4,573,775	3/1986	Bayshore	351/161
4,605,524	8/1986	Danker	351/161
4,614,413	9/1986	Obssuth	351/161
4,618,228	10/1986	Baron et al.	351/161
4,636,049	1/1987	Blaker	351/161
4,637,697	1/1987	Freeman	351/161
4,693,572	9/1987	Tsuetaki et al.	351/161
4,704,016	11/1987	de Carle	351/161
4,752,123	6/1988	Blaker	351/161

FOREIGN PATENT DOCUMENTS

201231	11/1986	European Pat. Off.	351/161
3222099	12/1983	Fed. Rep. of Germany	351/161

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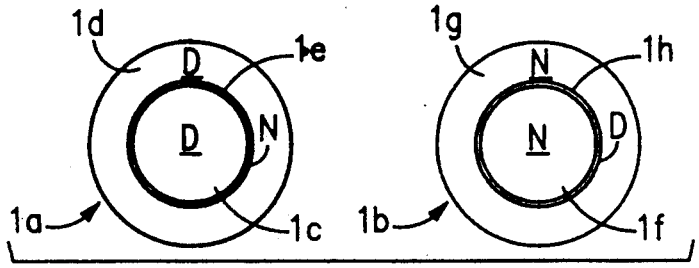
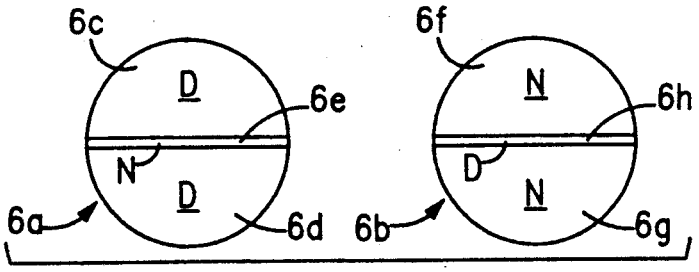
[57] **ABSTRACT**

In monovision type corneal contact lenses, one or both lenses is provided with one or more auxiliary correction zones each having a focal length different from the focal length of the major portion of the respective lenses. In any lens in accordance with the invention, the portion of the principal correction zones coextensive with the pupil of the respective eye covers more than approximately two-thirds (more preferably seventy-five percent and most preferably eighty percent) of the area of the pupil. This upper limit on the pupil area covered by the auxiliary zones is satisfied regardless of the disposition of the respective contact lens on the eye and regardless of the size of the respective pupil.

26 Claims, 5 Drawing Sheets