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Cumming

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(54) **BIASED ACCOMMODATING INTRAOCULAR LENS**

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A61F 2/16 (2006.01)

(52) **U.S. Cl.**
USPC **623/6.44**; 623/6.37; 623/6.46; 623/6.47

(58) **Field of Classification Search**
USPC 623/6.37, 6.38, 6.44, 6.45, 6.46, 6.47, 623/6.49, 6.51, 6.11, 6.18, 6.39, 6.43
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,834,023	A	5/1958	Wolfgang
4,073,014	A	2/1978	Poler
4,118,808	A	10/1978	Poler
4,122,556	A	10/1978	Poler
4,159,546	A	7/1979	Shearing
4,168,547	A	9/1979	Konstantinov et al.
4,173,798	A	11/1979	Welsh
4,174,543	A	11/1979	Kelman
4,206,518	A	6/1980	Jardon et al.
4,244,060	A	1/1981	Hoffer
4,254,509	A	3/1981	Tennant
4,277,851	A	7/1981	Choyce et al.
4,298,995	A	11/1981	Poler
4,304,012	A	12/1981	Richard
4,409,690	A	10/1983	Gess
4,409,691	A	10/1983	Levy
4,424,597	A	1/1984	Schlegel
4,441,217	A	4/1984	Cozean, Jr.
4,477,931	A	10/1984	Kelman
4,573,998	A	3/1986	Mazzocco
4,585,457	A	4/1986	Kalb
4,605,411	A	8/1986	Fedorov et al.
4,629,462	A	12/1986	Feaster
4,664,665	A	5/1987	Reuss et al.
4,664,666	A	5/1987	Barrett
4,673,406	A	6/1987	Schlegel
4,681,102	A	7/1987	Bartell
4,704,123	A	11/1987	Smith
4,710,195	A	12/1987	Glovinazzo
4,718,904	A	1/1988	Thornton

(Continued)

FOREIGN PATENT DOCUMENTS

DE	3626869	2/1988
FR	2728458	6/1996

(Continued)

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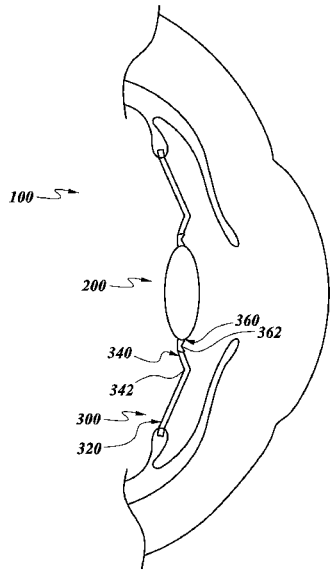
(57) **ABSTRACT**

An accommodating intraocular lens has a lens optic that is coupled to at least one haptic and is anteriorly biased with respect thereto.

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