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[54] SURFACE-MODIFIED SELF-PASSIVATING INTRAOCULAR LENSES

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Related U.S. Application Data

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[51] **Int. Cl.**[5] **A61F 2/16**; A01N 1/02

[52] **U.S. Cl.** **623/6**; 427/2; 427/425; 427/491

[58] **Field of Search** 623/6, 66, 901; 427/2, 427/38–41, 425

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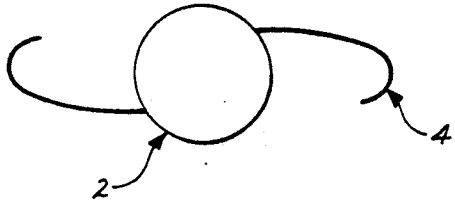
[57] **ABSTRACT**

The invention relates to intraocular lenses coated with C_{12}–C_{36} alkyl groups that render the surface of the intraocular lens less prone to causing inflammation after implantation of the intraocular lens. The alkyl groups may be coated on the IOL by a centrifugal casting method, a solution deposition method (e.g., a covalent attachment method), or a plasma deposition method that minimizes fragmentation of the alkyl groups.

19 Claims, 6 Drawing Sheets



- POLY(METHYL METHACRYLATE)
- POLYCARBONATE
- HYDROGEL
- SILICONE ELASTOMER
- POLYPROPYLENE
- POLY(METHYL METHACRYLATE)
- POLY(VINYLIDENE FLUORIDE)
- POLYMIDE
- NYLON