United States Patent [19]

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[54] **VISCOELASTIC SOLUTION**

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[52] **U.S. Cl.** **514/57;** 514/54

[58] **Field of Search** 514/54, 57

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,436,730 3/1984 Ellis et al. 514/57

4,486,416 12/1984 Soll et al. 514/54

OTHER PUBLICATIONS

Kaufman et al., *American Journal of Opthalmology,* 1984, pp. 112–114.

Lindstrom et al., *Chemical Abstracts,* vol. 103, 1985, No. 156864r.

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[57] **ABSTRACT**

Viscoelastic solution including a buffered solution, 1–8% cellulose gum and 1–8% chondroitin sulfate, pH adjusted to 7.2–7.6 at a osmolality between 200–400 MOSM. The buffered solution can be HEPES buffered minimum essential media (MEM), phosphate buffer system (PBS), balanced salt solution, or TC199.

1 Claim, No Drawings