

[54] HYDROPHILIC POLYMERS AND CONTACT LENSES MADE THEREFROM

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[56] References Cited

U.S. PATENT DOCUMENTS

3,267,084	8/1966	Rankin et al. ....	525/387
3,647,736	3/1972	Ewell .....	523/108
3,985,697	10/1976	Urbach .....	523/106
4,430,458	2/1984	Tighe et al. ....	523/108

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[57] ABSTRACT

An interpenetrating network polymer is obtained by mixing hydrophilic monomer vinyl pyrrolidone and hydrophobic monomer (5-alkylene-m-dioxanyl) acrylic ester in the presence of at least two crosslinking agents and, optionally, hydroxyalkyl acrylic ester and catalysts and causing polymerization to occur. Contact lenses made from the polymer have high tensile strength and can absorb a high degree of water.

6 Claims, No Drawings