United States Patent [19]

Ofstead

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[54] **ARTICLE COATED WITH COPOLYMER OF POLY(VINYL ALCOHOL)**

[75] Inventor: **Ronald F. Ofstead,** Maplewood, Minn.

[73] Assignee: **Minnesota Mining and Manufacturing Company,** St. Paul, Minn.

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Related U.S. Application Data

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[52] **U.S. Cl.** ..... **428/421;** 264/1.4; 351/159; 351/160 H; 522/6; 522/153; 623/5; 623/6

[58] **Field of Search** ..... 264/1.4; 351/159, 160 H; 428/421; 522/6, 153; 623/5, 6

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Primary Examiner—Joseph L. Schofer
Assistant Examiner—J. M. Reddick
Attorney, Agent, or Firm—Donald M. Sell; James A. Smith; Lorraine R. Sherman

[57] **ABSTRACT**

Novel, non-crosslinked copolymers of vinyl trifluoroacetate (VTA) and up to 5 weight percent of the VTA of certain comonomers, such as vinyl esters, vinyl ethers, or disubstituted ethylene monomers, are disclosed. Solvolysis of these copolymers provides novel water-insoluble, non-crosslinked, poly(vinyl alcohol) copolymers which can be hydrated to copolymers having controllably variable hydrogel properties and high strength. Such poly(vinyl alcohol) copolymers are particularly desirable as ophthalmic devices such as contact lenses, corneal implants and transplants, and intraocular lenses.

12 Claims, No Drawings