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[54] **FLUORINE AND/OR SILICONE CONTAINING POLY(ALKYLENE-OXIDE)-BLOCK COPOLYMER HYDROGELS AND CONTACT LENSES THEREOF**

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Related U.S. Application Data

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[51] Int. Cl.⁵ **C08F 12/30; C08F 114/18**

[52] U.S. Cl. **526/243; 526/245; 526/247; 526/251; 526/279; 525/404; 525/455; 351/160 R; 351/160 H**

[58] Field of Search **526/279, 251, 247, 245, 526/243; 525/404, 455; 351/160 R, 160 H**

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[57] ABSTRACT

Fluorine and/or silicone containing block copolymers are described which are the copolymerization product of mono; di- or trivinyl substituted poly(ethylene oxide) prepolymers (A) and fluoroalkyl-alkylene acrylates or methacrylates (B1), oligosiloxy-silyl alkyl-acrylates or methacrylates (B2), ether copolymerizable comonomers (C), and 0.1 to 10% of a di- or polyvinyl crosslinking comonomer (D) of 200 to 1000 molecular weight. The novel block copolymers are prepared in solution or bulk and form hydrogels, which are characterized by high oxygen permeability, resiliency, flexibility and wettability and are therefore well suited as biocompatible polymers, especially as contact lenses.

58 Claims, No Drawings