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(54) Title: POLYURETHANE BASED MEDICAL ARTICLES



FIG. 4

(57) Abstract: Medical articles formed from a polyurethane-based resin including an ionically-charged modifier provide enhanced properties. The polyurethane-based resin is a reaction product of ingredients comprising: a diisocyanate; a diol chain extender; a polyglycol; and a cationic modifier incorporated into a backbone, as a side chain, or both of the polyurethane-based resin. Exemplary cationic modifier includes bis(2-hydroxyethyl)dimethylammonium chloride (BHDAC). Medical articles herein either have inherent antimicrobial and/or anti-fouling characteristics or can easily bond anionic active agents to provide desirable material properties, including antimicrobial and anti-fouling.



WO 2022/182969 A1