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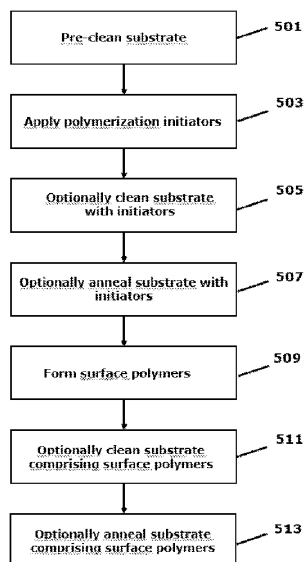


Fig. 12

(57) Abstract: Reaction compositions for surface polymer formation may comprise: at least one monomer; at least one ligand and at least one catalyst, wherein the at least one ligand and the at least one catalyst form a complex; at least one solvent; and at least one polymerization control agent for controlling at least one of pH and molecular oxygen concentration. Systems and methods are described which utilize these reaction compositions for forming surface polymers.

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