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(54) Title: SELF-ASSEMBLING COPOLYMERS AND THIN-FILM MEMBRANES COMPRISING SELF-ASSEMBLING COPOLYMERS AND 3D PRINTED SPACERS

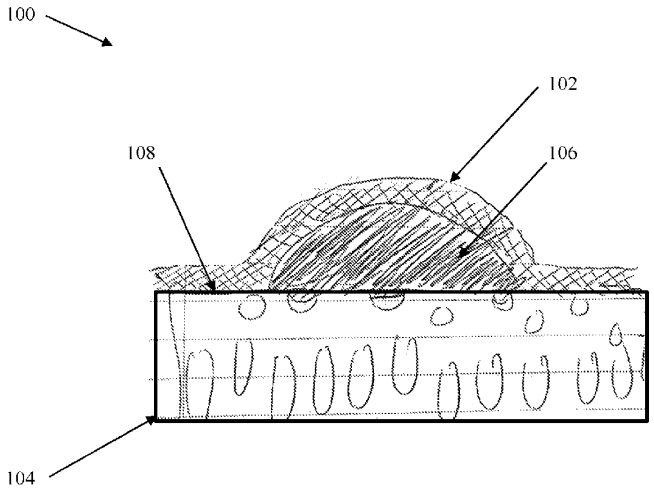


FIG. 1

(57) Abstract: This disclosure generally relates to polymeric materials designed to create membranes with improved selectivity and fouling resistance, with potential capabilities that include tunable effective pore size, exceptional fouling resistance, improved chemical resistance, thermal stability, and ion selectivity. The membrance selective layers can be comprise a self-assembling copolymer spray-coated on to a porous support material that has been augmented with 3D printed spacers.

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