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(54) **Title:** THIN-FILM MEMBRANES WITH ZWITTERIONIC POLYMERS AND ALTERNATIVE SUPPORT STRUCTURES

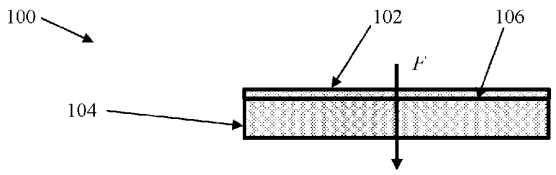


FIG. 1

(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 membrane selective layers can be deposited on to porous supports that include ceramic materials.

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