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(54) Title: CROSS-LINKABLE AND CHARGED ZWITTERIONIC POLYMERS AND MEMBRANES COMPRISING SAME

(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 that can be reduced to, for example, <1 nm, exceptional fouling resistance, improved chemical resistance and thermal stability, and ion selectivity. Specifically, this disclosure relates to cross-linkable and charged zwitterionic polymers and membranes made therefrom for reverse osmosis applications.



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