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(71) Applicant: **TRUSTEES OF TUFTS COLLEGE**
[US/US]; Ballou Hall, 4th Floor, Medford, MA 02155 (US).

(72) Inventors: **ALEXIOU, Ayse, Asatekin**; 71 Medford
Street, Arlington, MA 02474 (US). **MONDAL, Abhishek,**
Narayan; 18 Winthrop Street, Unit 1, Medford, MA 02155
(US). **LOUNDER, Samuel, J.**; 562 Main Street, Medford,
MA 02155 (US).

(74) Agent: **GORDON, Dana, M.** et al.; Foley Hoag LLP, 155
Seaport Boulevard, Boston, MA 02210-2600 (US).

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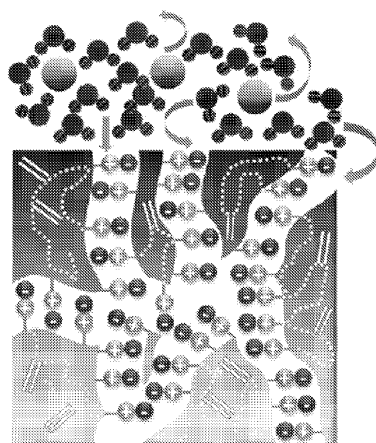
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(54) Title: CROSS-LINKED ZWITTERIONIC POLYMER NETWORK AND THEIR USE IN MEMBRANE FILTERS

Fig. 1A



(57) Abstract: Disclosed are crosslinked copolymer network, comprising a copolymer, comprising a plurality of zwitterionic repeat units, and a plurality of a first type of hydrophobic repeat units; a plurality of crosslinking units; and a plurality of crosslinks; wherein each crosslinking unit comprises a first terminal thiol moiety and a second terminal thiol moiety; each hydrophobic repeat unit comprises an alkene; and each crosslink is formed from (i) the first terminal thiol moiety of a crosslinking unit and the alkene of a first hydrophobic repeat unit, and (i) the second terminal thiol moiety of the crosslinking unit and the alkene of a second hydrophobic repeat unit; and the method of making such cross-linked copolymer network. Also disclosed are the thin film composite membrane comprising the cross-linked copolymer network; and methods for using such thin film composite membrane.

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