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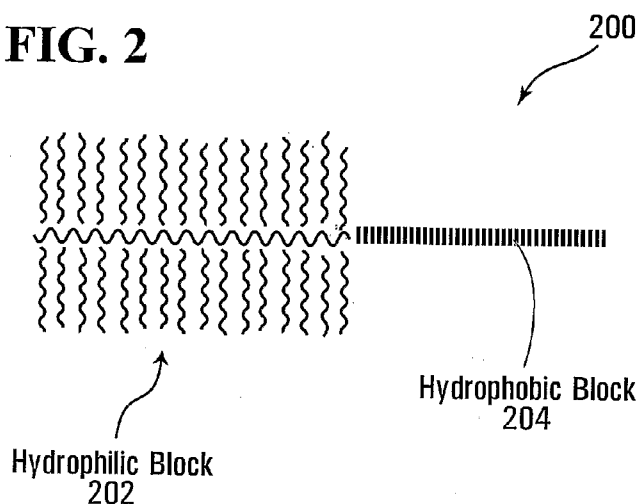
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(54) **Title:** AMPHIPHILIC BLOCK COPOLYMER FOR ANTIFOULING COATING

FIG. 2

(57) **Abstract:** An amphiphilic block copolymer is provided, which comprises a first polymeric block of repeat units and a second polymeric block of repeat units. The first block comprises hydrophilic antifouling side chains bonded to a first backbone segment. The first backbone segment has a length of 10 to 200 repeat units. The side chains have an average length of 5 to 23 monomer units. The repeat units in the first block have a polydispersity index of 1.3 or less, such as about 1.15. The second block comprises hydrophobic antifouling side groups bonded to a second backbone segment. The second backbone segment has a length of 10 to 200 repeat units. In a composition comprising the block copolymer, the block copolymer has a polydispersity of 1.3 or less. The first and second blocks may be copolymerized by living radical polymerization. The copolymer or composition is suitable for forming antifouling coatings.



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