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(54) Title: THERMALLY RESPONSIVE BRUSH POLYMERS HAVING A COPOLYMER BACKBONE AND COPOLYMER ARMS

(57) Abstract: The description involves a brush copolymer composition comprising a copolymeric backbone including monomeric repeat units of at least two different acrylate monomers and copolymeric brush arms including monomeric repeat units of at least two different acylated poly(alkylene amine)s, in which the brush arms, the brush copolymer, or both may advantageously exhibit UCST behavior, e.g. in hydrocarbon diluent. Methods of making such copolymers using RAFT and CROP (pseudo-)living reaction processes are also described herein.



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