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(54) **TARGETED POLYMERIZED LIPOSOME DIAGNOSTIC AND TREATMENT AGENTS**

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Related U.S. Application Data

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(58) **Field of Search** 424/450, 1.21, 424/9.321, 9.51, 417, 94.3; 436/829; 424/600, 617; 554/71, 79

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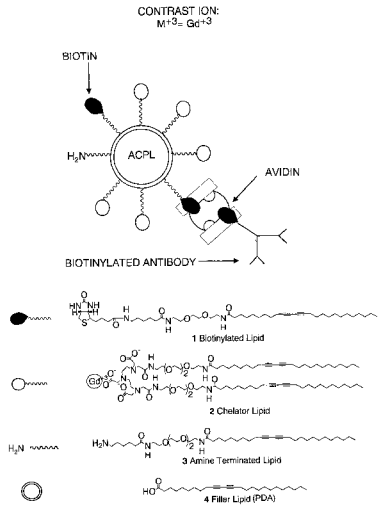
(57) **ABSTRACT**

Polymerized liposome particles which are linked to a targeting agent and may also be linked to a contrast enhancement agent and/or linked to or encapsulating a treatment agent. The targeting imaging enhancement polymerized liposome particles interact with biological targets holding the image enhancement agent to specific sites providing in vitro and in vivo study by magnetic resonance, radioactive, x-ray or optical imaging of the expression of molecules in cells and tissues during disease and pathology. Targeting polymerized liposomes may be linked to or encapsulate a treatment agent, such as, proteins, drugs or hormones for directed delivery to specific biological sites for treatment.

3 Claims, 25 Drawing Sheets