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# United States Patent [19]

**Retzinger et al.**

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[54] **FIBRINOGEN-COATED LIPOSOMES**

[75] Inventors: **Gregory Scott Retzinger**; **Ashley P. Deanglis**, both of Cincinnati, Ohio

[73] Assignee: **University of Cincinnati**, Cincinnati, Ohio

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[52] **U.S. Cl.** ..... **424/450**; 514/2; 514/21

[58] **Field of Search** ..... 424/450; 436/829; 264/4.1, 4.3; 514/2, 21

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*Primary Examiner*—Gollamudi S. Kishore
*Attorney, Agent, or Firm*—Frost & Jocobs

[57] **ABSTRACT**

A method for preparing fibrinogen-coated liposomes is disclosed. In this process, fibrinogen and an acylating agent are reacted in the presence of a dispersion of liposomes under specifically defined reaction conditions. The liposomes formed using this process, pharmaceutical compositions containing those liposomes, and the methods of clotting blood and delivering pharmaceutically-active agents and/or other chemicals utilizing those pharmaceutical compositions are also disclosed.

**36 Claims, No Drawings**