

United States Patent [19]

Schmitz

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[54] **POLYLACTIC-POLYGLYCOLIC ACID COPOLYMER COMBINED WITH DECALCIFIED FREEZE-DRIED BONE FOR USE AS A BONE REPAIR MATERIAL**

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[73] Assignee: **The United States of America as represented by the Secretary of the Army, Washington, D.C.**

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[51] Int. Cl.⁴ **A61K 31/74; A61K 35/32**

[52] U.S. Cl. **424/78; 424/95**

[58] Field of Search **424/95, 78**

[56] **References Cited**

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[57] **ABSTRACT**

A novel bone repair material consisting essentially of decalcified freeze-dried bone and biodegradable, biocompatible copolymer has been developed for improving and accelerating the healing of osseous tissue. The bone repair material was prepared by combining decalcified bone with a copolymer consisting essentially of a 50:50 poly(L)(-)-lactide co-glycolide.

19 Claims, No Drawings