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Lu et al.

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(54) **BONE CONNECTION MATERIAL**
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See application file for complete search history.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(57) **ABSTRACT**

The present invention provides a bone connection material that includes an internal layer. The internal layer is formed by braiding a plurality of filaments. The internal layer that is formed by braiding filaments is resistant to lateral shearing forces and may provide flexibility so as to achieve wide applications. Further, the present invention overcomes the drawback of the conventionally used metallic materials that are rigid and inelastic and also overcomes the problem of polylactic acid material of being brittle. Thus, the bone formed according to the present invention is close to a natural bone and is more suitable for uses in portions where frequent movements are made and scaffolds of stem cells.

14 Claims, 18 Drawing Sheets

