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[54] **BIOCOMPATIBLE ADHESIVE COMPOSITIONS**

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[51] Int. Cl.⁶ **A61F 13/00**; **A61F 15/00**

[52] U.S. Cl. **525/54.1**; **602/52**; **602/54**

[58] Field of Search **525/54.1**; **602/52**, **602/54**

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[57] ABSTRACT

Collagen-based compositions useful in the attachment of tissues, or the attachment of tissues to synthetic implant materials, are disclosed. The compositions comprise collagen crosslinked using a multifunctionally activated synthetic hydrophilic polymer. A particularly preferred composition comprises fibrillar collagen, a fiber disassembly agent, and a multifunctionally activated synthetic hydrophilic polymer. Methods are disclosed for using the compositions to effect the attachment of a native tissue to the surface of another native tissue, a non-native tissue, or a synthetic implant. Also disclosed are methods of using the compositions to prevent the formation of surgical adhesions.

33 Claims, 3 Drawing Sheets