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[54] COLLAGEN-BASED ADHESIVES AND SEALANTS AND METHODS OF PREPARATION AND USE THEREOF

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[58] **Field of Search** 522/87, 88, 89, 68; 527/200, 201, 202, 205, 207, 203; 530/402, 408, 410, 356

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[57] **ABSTRACT**

Collagen-based compositions as adhesives and sealants for medical use and preparation thereof are described. Prior to polymerization, soluble or partially fibrillar collagen monomers in solution are chemically modified with an acylating agent, sulfonating agent or a combination of the foregoing. The collagen compositions prepared accordingly can be used as medical adhesives for bonding soft tissues or be made in to a sealant film for a variety of medical uses such as wound closures and tendon wraps for preventing adhesion formation following surgery.

28 Claims, 1 Drawing Sheet