

United States Patent [19]

Chu et al.

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[54] **COLLAGEN MEMBRANES FOR MEDICAL USE**

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[73] Assignee: **Collagen Corporation, Palo Alto, Calif.**

[*] Notice: **The portion of the term of this patent subsequent to Jul. 15, 2003 has been disclaimed.**

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[22] Filed: **Feb. 4, 1986**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 685,350, Dec. 24, 1984, Pat. No. 4,600,533.

[51] Int. Cl.⁴ **C07K 15/20; C07G 7/00; C08H 1/06**

[52] U.S. Cl. **530/356; 514/21; 514/801; 128/156; 128/DIG. 8**

[58] Field of Search **530/356; 128/82, 155, 128/156, DIG. 8; 428/473; 514/801, 21**

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[57] ABSTRACT

Collagen membranes with desired properties are prepared by using a variety of gel-forming techniques in combination with methods for converting the gels to solid forms. The properties of these membranes or other solid forms may be further altered by cross-linking the collagen preparation either after formation of the membrane or gel, or most preferably by mixing cross-linked collagen with solubilized collagen in the original mixture used to create the gel.

19 Claims, No Drawings