

United States Patent [19]

Ksander et al.

[11] Patent Number: **4,950,483**

[45] Date of Patent: **Aug. 21, 1990**

[54] **COLLAGEN WOUND HEALING MATRICES AND PROCESS FOR THEIR PRODUCTION**

[75] Inventors: **George Ksander, Redwood City; Yasushi Ogawa, Pacifica, both of Calif.**

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

[21] Appl. No.: **286,303**

[22] Filed: **Dec. 16, 1988**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 213,726, Jun. 30, 1988.

[51] Int. Cl.⁵ **A61K 9/00**

[52] U.S. Cl. **424/422; 424/423; 424/424; 424/425; 424/426; 424/444**

[58] Field of Search **424/422-426, 424/444, 484, 488; 623/16; 514/801**

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Primary Examiner—Thurman Page
Attorney, Agent, or Firm—Irella & Manella

[57] ABSTRACT

Collagen implants that are useful as wound healing matrices are characterized by being formed of collagen fibrils that are not chemically cross-linked, and having a bulk density of 0.01 to 0.3 g/cm³ and a pore population in which at least about 80% of the pores have an average pore size of 35 to 250 microns. The implants are capable of promoting connective tissue deposition, angiogenesis, reepithelialization, and fibroplasia. The wound healing matrix also serves as an effective sustained delivery system for synergistic combinations of FGF and TGF-B.

10 Claims, 3 Drawing Sheets