United States Patent [19]

Robinson

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[54] **BIOADHESIVE COMPOSITIONS AND METHODS OF TREATMENT THEREWITH**

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[*] Notice: The portion of the term of this patent subsequent to Oct. 7, 2003 has been disclaimed.

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Related U.S. Application Data

[63] Continuation of Ser. No. 909,960, Sep. 22, 1986, Pat. No. 4,795,436, which is a continuation of Ser. No. 690,483, Dec. 20, 1984, Pat. No. 4,615,697, which is a continuation-in-part of Ser. No. 551,295, Nov. 14, 1983, abandoned.

[51] **Int. Cl.**[5] **A61F 2/00**

[52] **U.S. Cl.** **424/427**; 424/428; 424/434; 514/177

[58] **Field of Search** 424/427, 428, 434; 514/177

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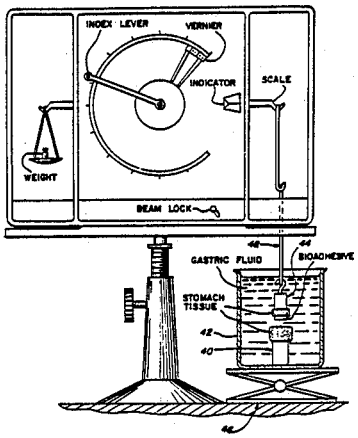
[57] **ABSTRACT**

A controlled release treatment composition and method of use are disclosed. The composition includes a bioadhesive and an effective amount of a treating agent. The bioadhesive is a water-swellable, but water-insoluble, fibrous, cross-linked carboxy-functional polymer containing (a) a plurality of repeating units of which at least about 80 percent contain at least one carboxyl functionality, and (b) about 0.05 to about 1.5 percent cross-linking agent substantially free from polyalkenyl polyether.

12 Claims, 6 Drawing Sheets

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