United States Patent [19]

Jernberg

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[54] **LOCAL DELIVERY OF CHEMOTHERAPEUTIC AGENTS FOR THE TREATMENT OF PERIODONTAL DISEASE**

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Related U.S. Application Data

[63] Continuation of Ser. No. 530,999, Sep. 12, 1983, abandoned.

[51] **Int. Cl.**[4] **A61C 5/00**

[52] **U.S. Cl.** **433/215**; 433/80; 433/136; 604/890

[58] **Field of Search** 433/215, 217, 135, 136, 433/80, 229; 604/890, 891, 892, 894, 896, 49, 54, 77; 128/136

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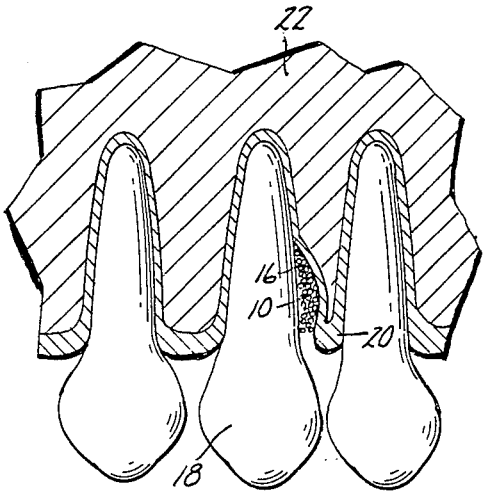
[57] **ABSTRACT**

A method for local delivery of chemotherapeutic agent (**12**) to a localized site in the mouth is disclosed. The method of delivery includes displacement or reflection of gingival tissues (**20**) from the tooth, in the area to be treated, to facilitate access to the periodontal lesion (**16**). A biodegradable, time-release microsphere (**10**) capsulating the chemotherapeutic agent is next positioned in the lesion (**16**). Accordingly, localized delivery of chemotherapeutic agent (**12**) continuously over a predetermined period of time is provided.

7 Claims, 12 Drawing Figures