

[54] COMPOSITIONS OF ORAL DISSOLVABLE MEDICAMENTS

[75] Inventors: Theodore H. Stanley, Salt Lake City; Brian Hague, West Valley City, both of Utah

[73] Assignee: The University of Utah, Salt Lake City, Utah

[\*] Notice: The portion of the term of this patent subsequent to Sep. 5, 2006 has been disclaimed.

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Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 60,045, Jun. 8, 1987, Pat. No. 4,863,737, which is a continuation-in-part of Ser. No. 729,301, May 1, 1985, Pat. No. 4,671,953.

[51] Int. Cl.<sup>5</sup> ..... A61K 9/68

[52] U.S. Cl. .... 424/440; 424/441; 424/435; 424/434; 424/484

[58] Field of Search ..... 424/440, 441, 484, 434, 424/435

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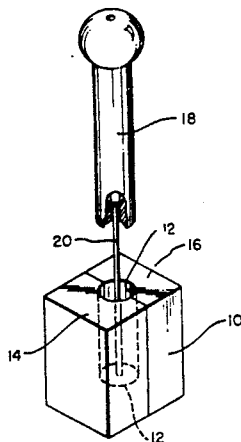
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Primary Examiner—Paul R. Michl
Assistant Examiner—Raj Bawa
Attorney, Agent, or Firm—Workman Nydegger & Jensen

[57] ABSTRACT

Compositions and methods of manufacture for producing a medicament composition capable of absorption through the mucosal tissues of the mouth, pharynx, and esophagus. The present invention relates to such compositions and methods which are useful in administering lipophilic and nonlipophilic drugs in a dose-to-effect manner that sufficient drug is administered to produce precisely a desired effect. The invention also relates to a manufacturing technique that enables a therapeutic agent or drug to be incorporated into a flavored dissolvable matrix. An appliance or holder is preferably attached to the dissolvable matrix. Employing the present invention the drug may be introduced into the patient's bloodstream almost as fast as through injection, and much faster than using the oral administration route, while avoiding the negative aspects of both of these methods. The present invention achieves these advantages by incorporating the drug into a carbohydrate, fat, protein, wax, or other dissolvable matrix composition. The dissolvable matrix may include permeation enhancers to increase the drug absorption by the mucosal tissues of the mouth. The matrix composition may also include pH buffering agents to modify the salival pH thereby increasing the absorption of the drug through the mucosal tissue.

219 Claims, 2 Drawing Sheets



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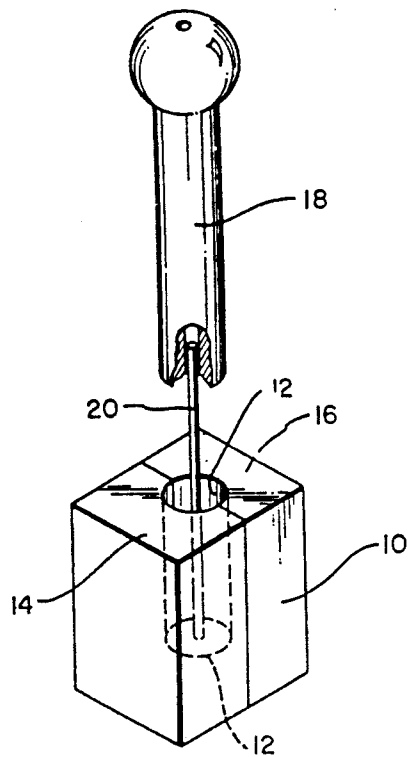


FIG. 1

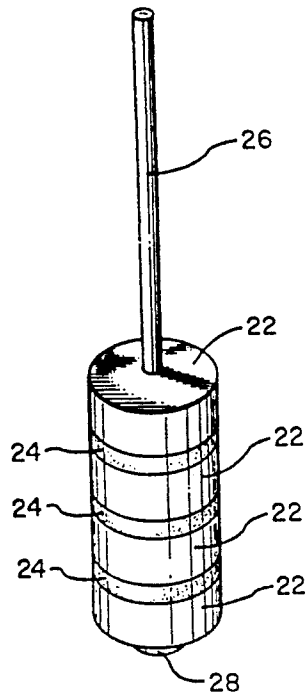


FIG. 2

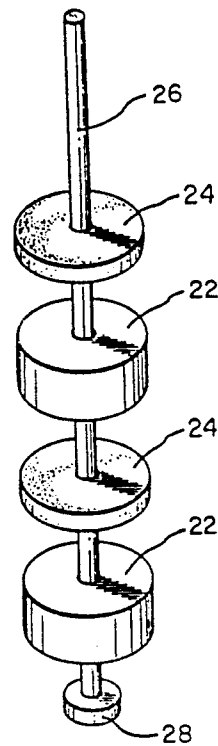


FIG. 3

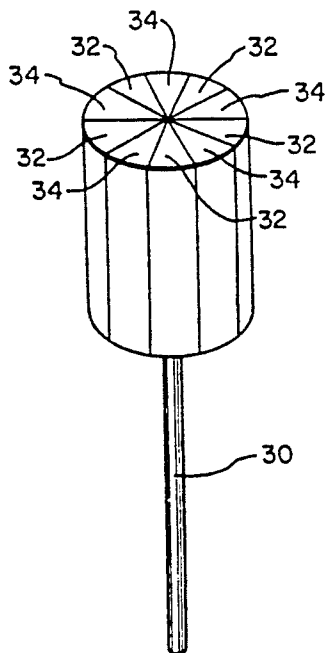


FIG. 4

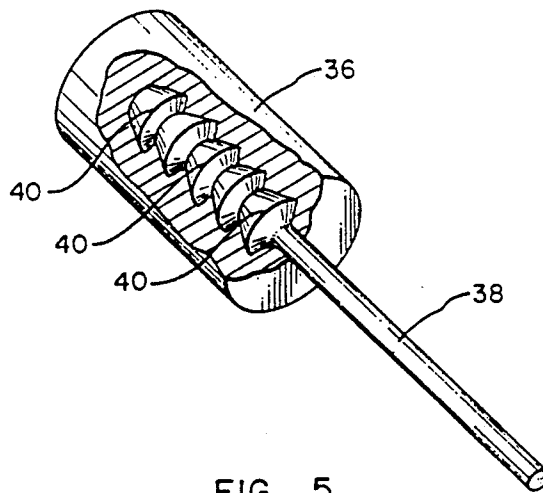


FIG. 5

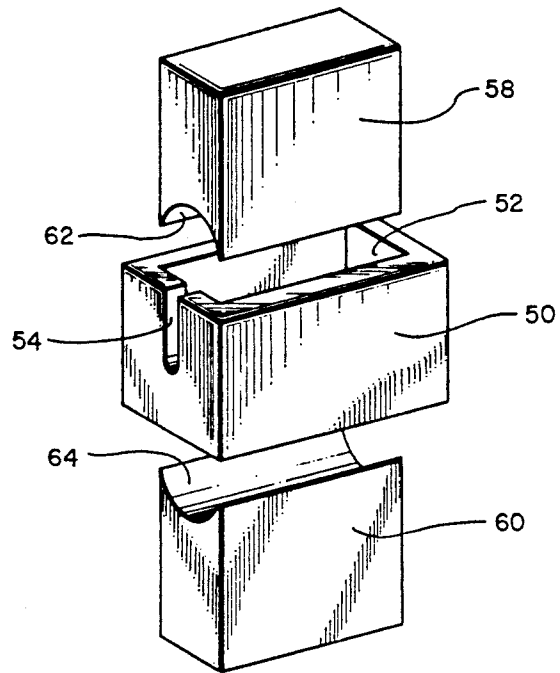


FIG. 6

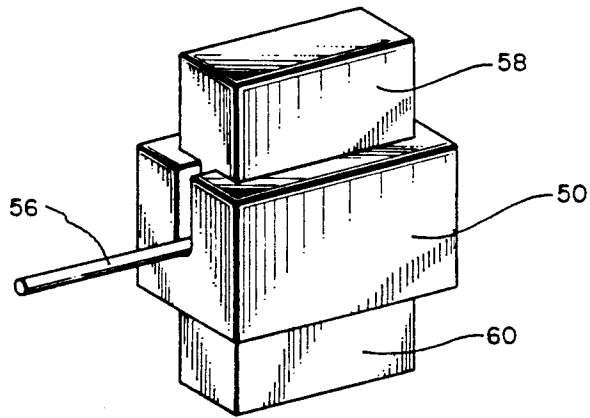


FIG. 7

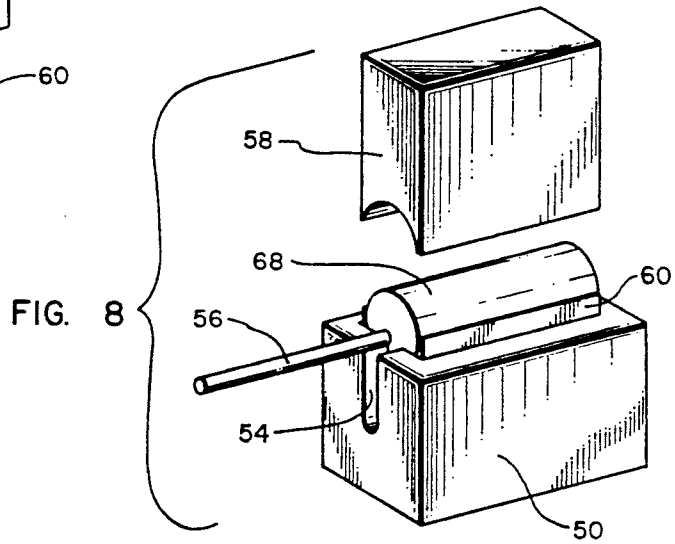


FIG. 8

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