

US005603947A

United States Patent [19]

Wong et al.

[51] Int. Cl.6

[11] Patent Number:

5,603,947

[45] **Date of Patent:**

Feb. 18, 1997

| [54] | METHOD AND DEVICE FOR PROVIDING NICOTINE REPLACEMENT THERAPY TRANSDERMALLY/TRANSBUCCALLY | | |
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| [73] | Assignee: | Cygnus Terapeutic Systems, Redwood City, Calif. | |
| [21] | Appl. No.: | 278,277 | |
| [22] | Filed: | Jul. 21, 1994 | |

Related U.S. Application Data

| [63] | Continuation-in-part of Ser. No. 247,520, May 23, 1994, |
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| | abandoned, which is a continuation of Ser. No. 89,971, Jul. |
| | 9, 1993, abandoned. |

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| [52] | U.S. Cl | 424/448 ; 424/447; 424/449 |
| [58] | Field of Search | 424/448, 449, |
| | | 424/447 |

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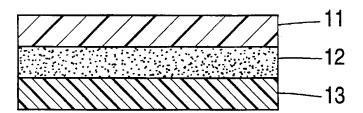
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Primary Examiner—D. Gabrielle Phelan Attorney, Agent, or Firm—Morrison & Foerster LLP

[57] ABSTRACT

A skin or buccal patch for providing nicotine replacement therapy which comprises a matrix type laminated composite in which the matrix is composed of a mixture of nicotine in a polymer wherein the amount of nicotine in the matrix, diffusion coefficient of nicotine in the matrix and the thickness of matrix are such that the release of nicotine is: (1) controlled by the patch; (2) rapid and at a relatively high flux over the prescribed wearing time of patch; and (3) such that a substantial proportion of the nicotine initially in the patch has been released at the end of the prescribed wearing time.

9 Claims, 13 Drawing Sheets



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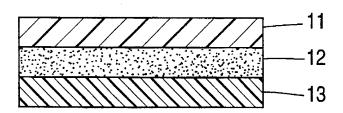


FIG. 1

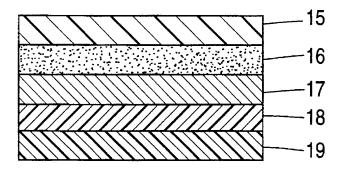


FIG. 2

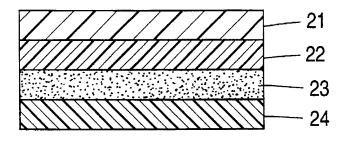
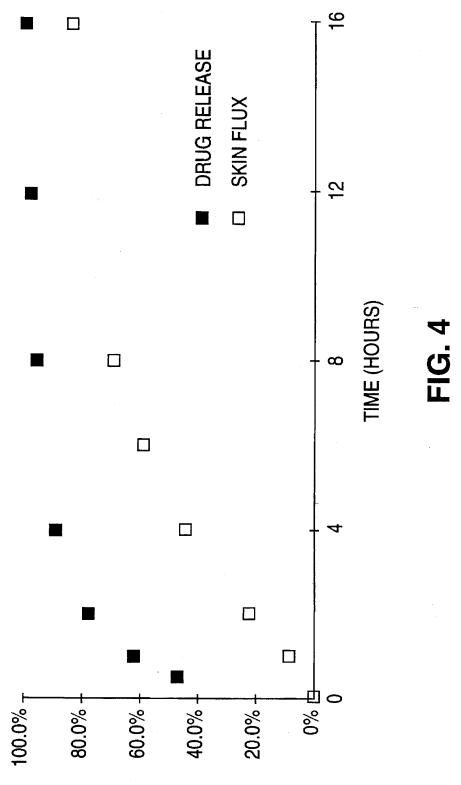


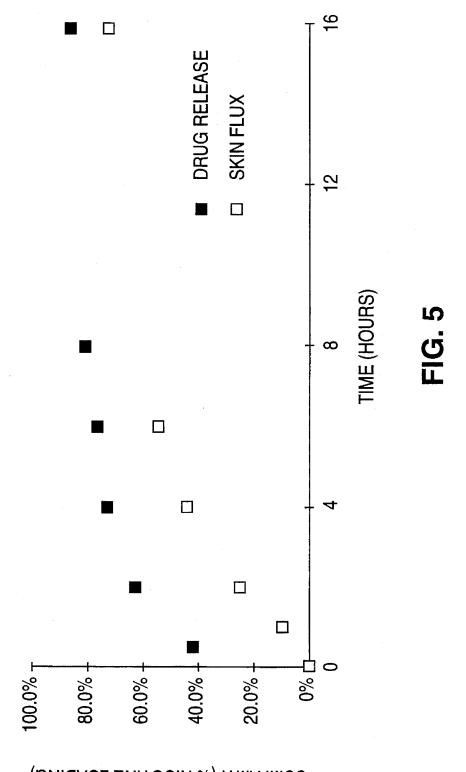
FIG. 3



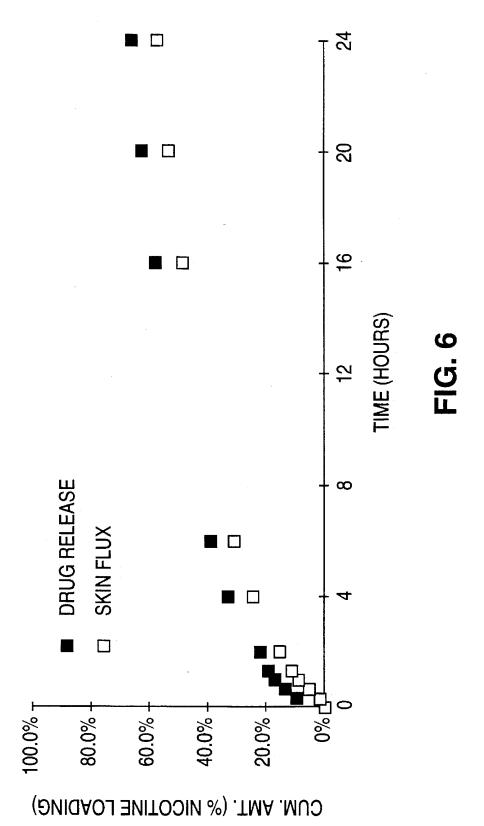
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