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Miranda et al.

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[54] SOLUBILITY PARAMETER BASED DRUG DELIVERY SYSTEM AND METHOD FOR ALTERING DRUG SATURATION CONCENTRATION

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[75] Inventors: Jesus Miranda; Steven Sablotsky, both of Miami, Fla.

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[73] Assignee: Noven Pharmaceuticals, Inc., Miami, Fla.

[21] Appl. No.: 178,558

[22] Filed: Jan. 7, 1994

Related U.S. Application Data

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[63] Continuation-in-part of Ser. No. 722,342, Jun. 27, 1991, Pat. No. 5,474,783, which is a continuation-in-part of PCT/US90/01750, Mar. 28, 1990, which is a continuation-in-part of Ser. No. 671,709, Apr. 2, 1991, Pat. No. 5,300,291, which is a continuation-in-part of Ser. No. 295,847, Jan. 11, 1989, Pat. No. 4,994,267, which is a continuation-in-part of Ser. No. 164,482, Mar. 4, 1988, Pat. No. 4,814,168.

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[51] Int. Cl.⁶ A61F 13/02

[52] U.S. Cl. 424/449; 424/448

[58] Field of Search 424/448, 449

[56]

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Primary Examiner—Jyothsna Venkat
Attorney, Agent, or Firm—Foley & Lardner

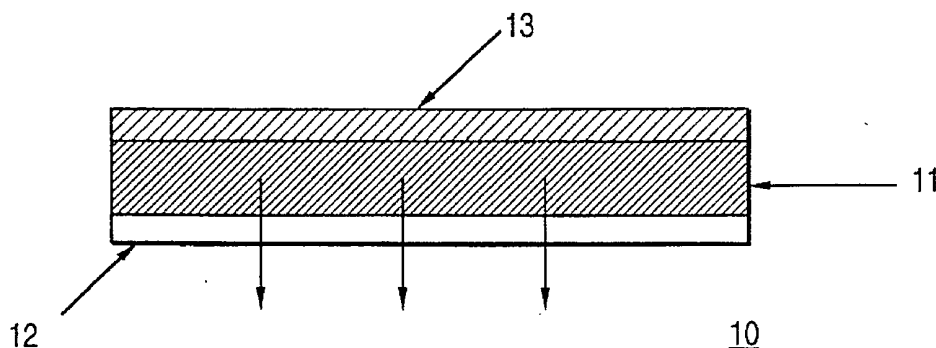
[57]

ABSTRACT

A blend of at least two polymers, or at least one polymer and a soluble polyvinylpyrrolidone, in combination with a drug provides a pressure-sensitive adhesive composition for a transdermal drug delivery system in which the drug is delivered from the pressure-sensitive adhesive composition and through dermis when the pressure-sensitive adhesive composition is in contact with human skin. According to the invention, soluble polyvinylpyrrolidone can be used to prevent crystallization of the drug, without affecting the rate of drug delivery from the pressure-sensitive adhesive composition.

(List continued on next page.)

73 Claims, 19 Drawing Sheets



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FIG. 1

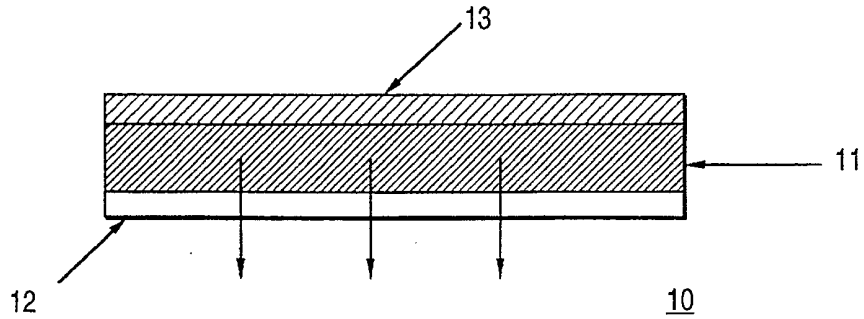


FIG. 2

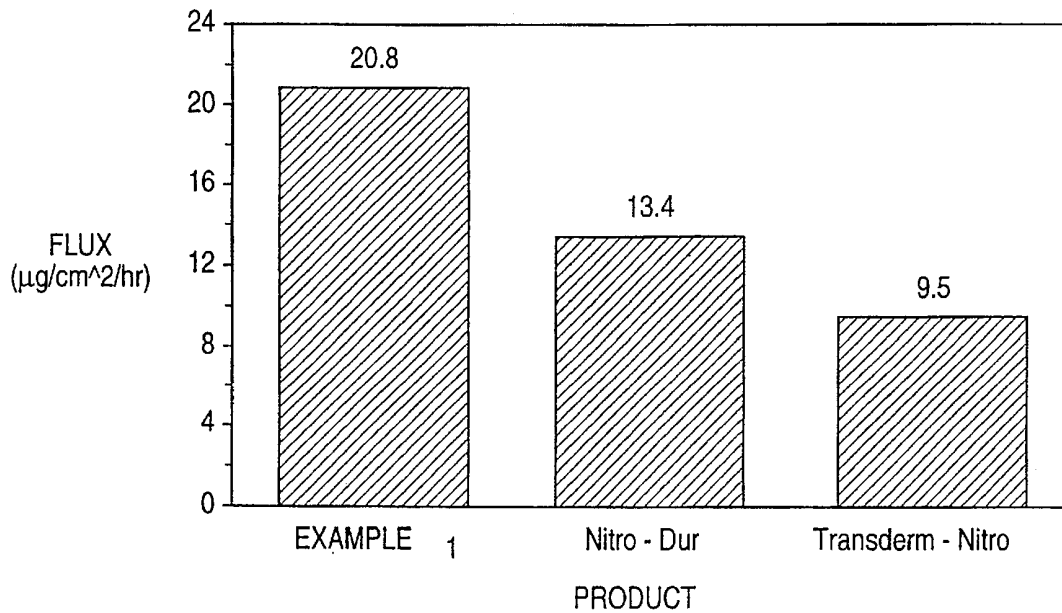


FIG. 3

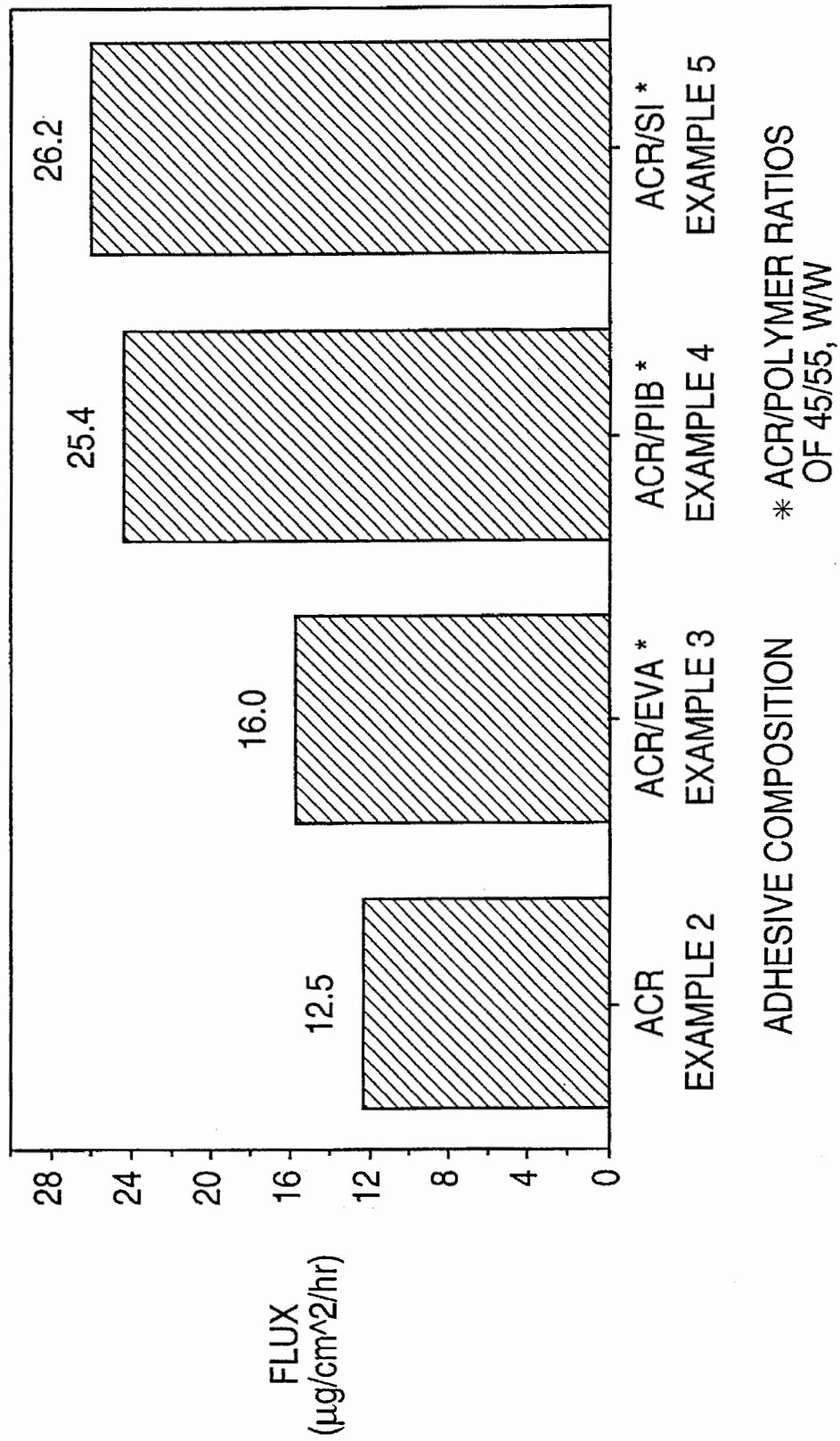
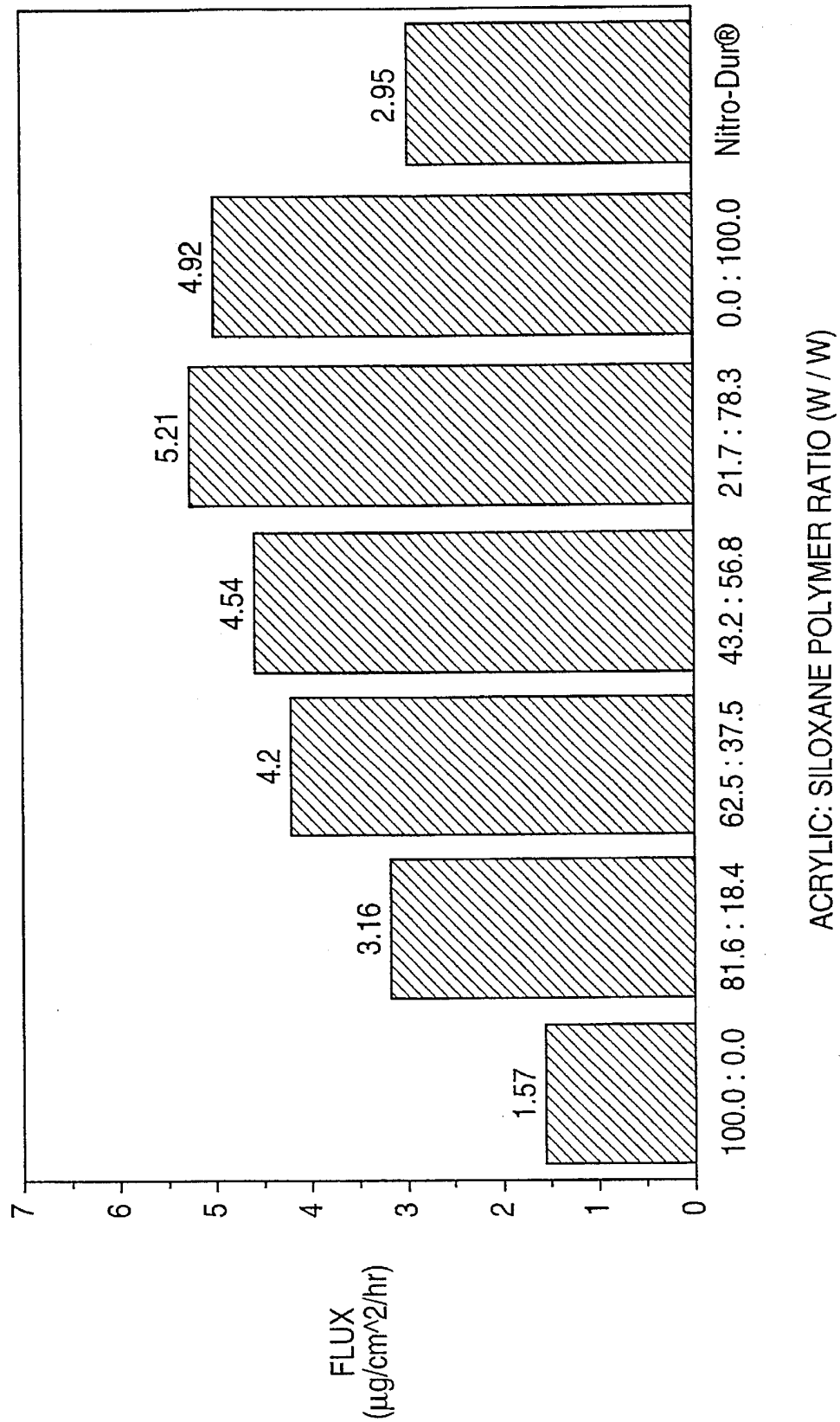


FIG. 4



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